Cabinet of Policy, Planning and Monitoring
National Directorate for Irrigation and Water Management
National Directorate for Agriculture and Horticulture
Ministry of Agriculture and Fisheries
The Democratic Republic of Timor-Leste

PROJECT FOR AGRICULTURE MASTER PLAN AND IRRIGATION DEVELOPMENT PLAN

Final Report
(Appendix)

June 2015

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

SANYU CONSULTANTS INC.

RD
JR
15-038

CONTENTS

APPENDIX 1 HYDROLOGICAL AND METEOROLOGICAL SURVEY 1-1
1-1 PURPOSE OF SURVEY 1-1
1-2 METEOROLOGICAL OBSERVATION 1-1
1-2-1 Present Condition of Meteorological Observation 1-1
1-2-2 Observation Stations Layout and Observation Plan 1-3
1-2-3 Observed data 1-4
1-3 HYDROLOGICAL OBSERVATION 1-5
1-3-1 Present Condition of Hydrological Observation 1-5
1-3-2 Observation Points Layout and Observation Plan 1-6
1-3-3 Observed data 1-11
APPENDIX 2 IRRIGATION INVENTORY SURVEY 2-1
2-1 BASIC POLICY OF INVENTORY SURVEY 2-1
2-1-1 Compiled Inventory Survey in Past 2-1
2-1-2 Basic Implementation Policy of Irrigation Inventory Survey 2-2
2-1-3 Grouping of Survey Area 2-3
2-2 IMPLEMENTATION OF SURVEY 2-4
2-2-1 Questionnaire (Data Sheet) 2-4
2-2-2 Implementation of Survey 2-5
2-3 RESULT OF SURVEY 2-5
2-4 SUMMERY TABLE OF INVENTORY SURVEY 2-25
2-5 REFERENCE NUMBER OF IRRIGATION SCHEME AND EVALUATION OF ALL OF IRRIGATION SCHEME 2-27
APPENDIX 3 DESIGN OF IRRIGATION FACILITIES IN PRIORITY PROJECTS 3-1
3-1 HALECOU IRRIGATION SCHEME IN BOBONARO DISTRICT 3-1
3-2 SAKETO IRRIGATION SCHEME IN VIQUEQUE DISTRICT 3-23
3-3 BIKALIU IRRIGATION SCHEME IN VIQUEQUE DISTRICT 3-31
APPENDIX 4 IRRIGATION DEVELOPMENT PLAN AND IRRIGATION ENGINEERING GUIDELINE 4-1

Appendix 1

APPENDIX 1 HYDROLOGICAL AND METEOROLOGICAL SURVEY

1-1 PURPOSE OF SURVEY

The purpose of survey is to grasp the Hydrological situation of whole Timor-Leste and to compile observed data as fundamental documents for future irrigation project. Since duration of this survey is only one year in this project, it is expected that observation will be continued after this project and the reliability of the data will be improved.

1-2 METEOROLOGICAL OBSERVATION

1-2-1 Present Condition of Meteorological Observation

During Portuguese time, before 1974, 63 meteorological stations had been working about 60 years. Even some stations have some data gap periods, data of all the stations are available. However at present all the stations have been removed (show Table 1-2-1 and Figure 1-2-1).

Meteorological observation stations working at present are total sixty nine 69 stations, 12 managed by ALGIS, 37 by MPW and 20 by SoL. The data have been observed for 3-5 years (some stations have some data gap periods). The data available periods of stations managed by each agency are shown in the Table 1-2-1 and locations of existing meteorological observation stations are shown in from Figure. 1-2-2 to Figure 1-2-4.

Meteorological Observation Station (Seeds of Life)
*Same type one is installed in this project

Table 1-2-1 Data Available Period (Rainfall)

	Portuguese Time							Indonesian Time		After Independence					
	1900									2000					
	10's	20's	30's	40's	50's	60's	70's	80's	90's	00's	10	11	12	13	14
Data on SoL's HP*															
ALGIS															
DNCQA															
SoL															

*Dili, Baucau and Oecusse have data until 1998.

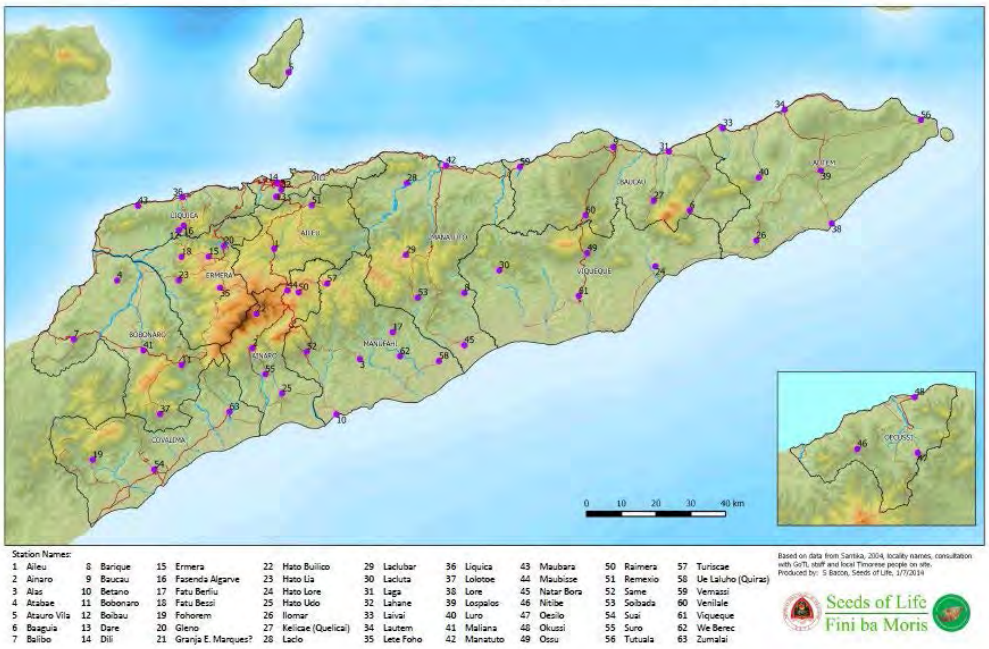


Figure 1-2-1 Location of Meteorological Observation Stations (During Portuguese time)

***No stations remain at present**

Figure 1-2-2 Location of Existing Meteorological Observation Stations (ALGIS: 12 Stations)

Figure 1-2-3 Location of Existing Meteorological Observation Stations (MPW: 37 Stations)

Figure 1-2-4 Location of Existing Meteorological Observation Stations (SoL: 20 Stations)

1-2-2 Observation Stations Layout and Observation Plan

(1) Observation Stations Layout Plan

Installation points of observation stations in this project are selected paying attention to main 8 river watersheds considering 1) to fill the areas which have less distribution of existing stations, and 2) not to install to duplicate point of existing stations managed by the other agencies.

Each watersheds are divided into 3 areas, upstream, middle stream and downstream, and areas which have no observation stations are selected as the target for installation. Finally, 6 points shown in the Table1-2-2 are selected as targets.

*Upstream area of Vemasse River has no observation stations but since the area of this area is very small, this area is out of target and middle area of Laclo is selected as an alternative target.

Table 1-2-2 Layout of Meteorological Observation Stations

River Name	ALGIS			DNCQA			SOL			determination			River Name
	No.	Elevation	area	No.	Elevation	area	No.	Elevation	area	D	M	U	
Loes	5	135	M	19	1045	U	9	163	M	○	○	○	Loes
							10	529	U				
							14	22	D				
Lacio	10	25	D	29	175	M				○	1	○	Lacio
				30	1100	U							
Vemasse				4	82	D				○	2	×	Laleia
Seical	4	612	U	5	490	M	8	854	U	3	○	○	Seical
				6	262	M	19	950	U				
Irabere				8	461	M				4	○	○	Irabere
				21	533	U							
				22	301	M							
Sahen				31	680	U	16	101	M	5	○	○	Sahen
Caraulun	11	30	D				7	690	U	○	6	○	Caraulun
Loumea	6	22	D	11	794	U				○	○	○	Loumea
	11	30	D	12	850	U							
				15	284	M							

symbols	location	elevation
D	Down stream	0～100m
M	Middle stream	100～500m
U	Up stream	500m～

Plan(Rainfall station)

Table 1-2-3 Target points for Installation of Meteorological Observation Stations

No.	Name of River	Name of station	District	Latitude	Longitude	Elevation
1	Laclo	Manatuto	Manatuto	8.67554	125.99143	423
2	Vemasse	Vemase	Baucau	8.61269	126.29880	290
3	Secal	Seical	Baucau	8.47092	126.50960	13
4	Irabere	Irabere	Viqueque	8.74878	126.70591	17
5	Sahen	Sahen	Manufahi	9.01090	126.00900	40
6	Caraulun	Caraulun	Manufahi	9.09777	125.70060	90

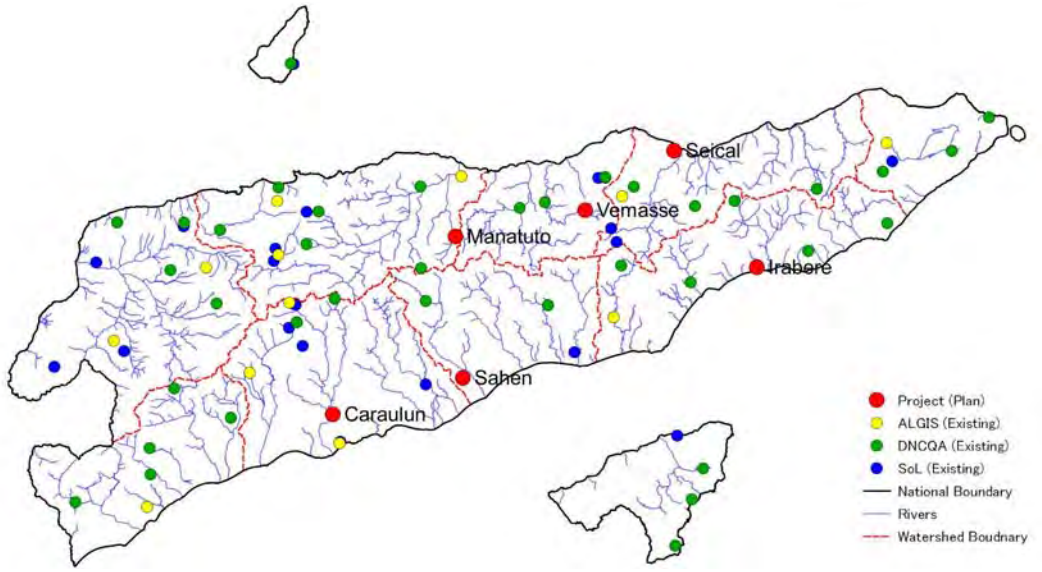


Figure 1-2-5 Target point for Installation of Meteorological Observation Stations (Point with mark ●)

(2) Observation Plan

All the observed data are transferred through mobile phone network and stored in PC installed in ALGIS. In this project, observation period is only one year but MAF will continue observation after the project.

(3) Equipment Plan

Although tipping-bucket type self-recording rain gauge is considered as to be installed, according to the request from MAF, finally total weather observation station, which is same type as SoL installed, with temperature, humidity, solar radiation, and wind speed and direction sensors as well as rainfall sensor are selected.

1-2-3 Observed data

Among the items observed, observed daily rainfall data are shown in from Figure 1-2-6 to Figure 1-2-11.

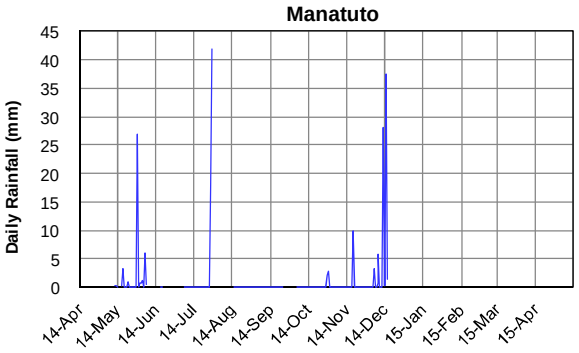


Figure 1-2-6 Daily Rainfall (Manatuto Station)

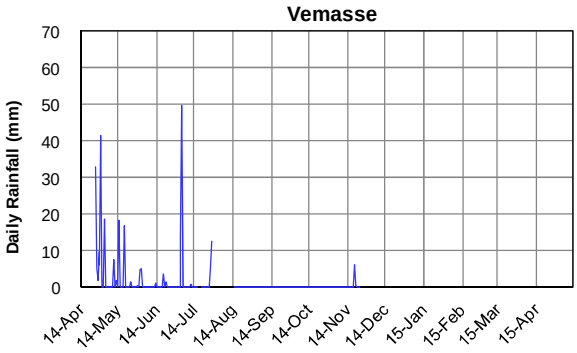


Figure 1-2-7 Daily Rainfall (Vemasse Station)

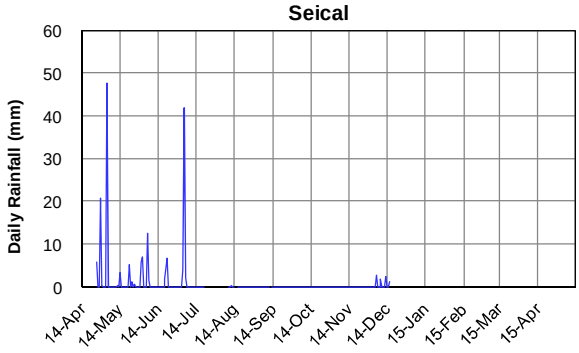


Figure 1-2-8 Daily Rainfall (Seical Station))

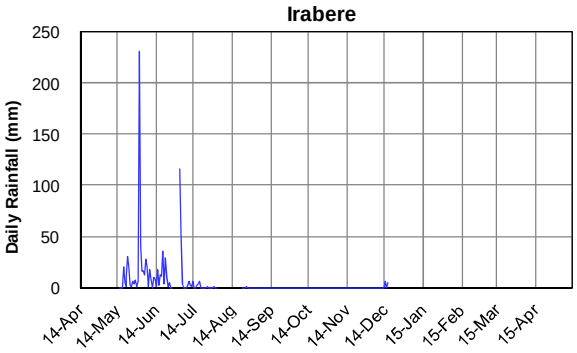


Figure 1-2-9 Daily Rainfall (Irabere Station))

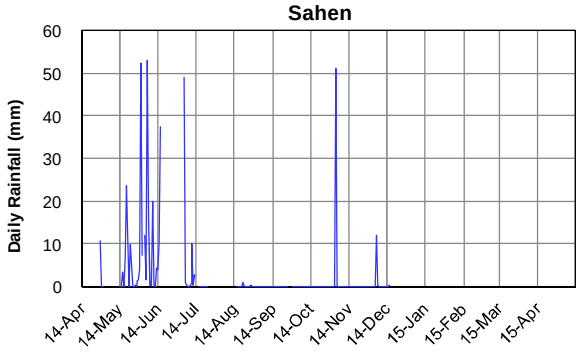


Figure 1-2-10 Daily Rainfall (Sahen Station))

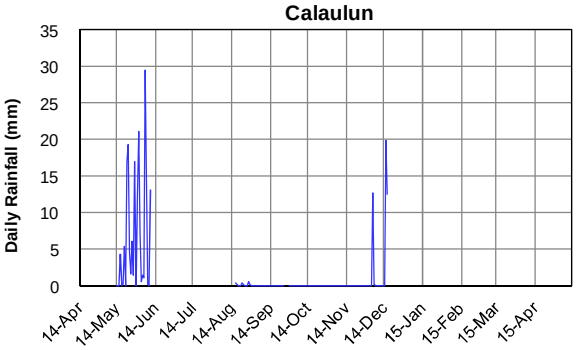


Figure 1-2-11 Daily Rainfall (Caraulun Station)

1-3 HYDROLOGICAL OBSERVATION

1-3-1 Present Condition of Hydrological Observation

River discharge measurement has been conducted at 11 points from 2007 but there are only a few points which observation has been conducted through the year. Stations having observation data more than 10 times a year is only 3 points.

River level measurement has been conducted at 14 points from 2007. From 2011, daily measurement has been conducted but until 2011 observation was done at the same time of river discharge measurement.

Both river discharge and river level measurement have been managed by MPW.

Data available period of river discharge and river level are shown in the Table 1-3-1, and existing river

discharge and river level observation points are shown in the Figure 1-3-1.

Table 1-3-1 Data Available Period (River Discharge and River Level)

Name of Station		Target River	2007	2008	2009	2010	2011	2012	2013	2014
1	Belulic	Belulic								
2	Waigae	Uaetui					1	1		
3	Bulobo	Bulobo		2	3	5	13			
4	Aiasa	Irsul	1	1	1	2	8			
5	Baer	Baer								
6	Comoro	Comoro				2	11	4	3	7
7	Railako	Are				(4)	(9)	2	1	4
8	Gleno	Gleno				(1)	(11)			(1)
9	Atsabe Magapu	Bandera	1	1	1	4	8			
10	Moches	Moches								
11	Soibada	Boarahun					(2)			(1)
12	Noe Heno	Taolin				(1)				1
13	Lihuno	Waidere					6	3		
14	Bebui	Bebui					1	1		

: River level measured at the same time as river discharge only : Daily river level

*Numbers in cells are number of river discharge measurement data.

*Numbers with () mean the number of river discharge data with no water level data.

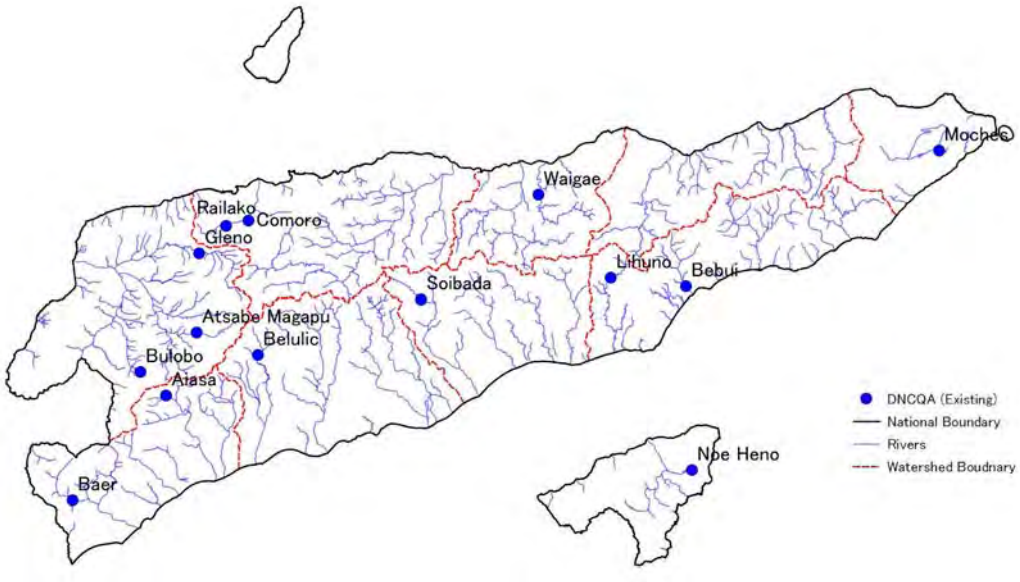


Figure 1-3-1 Location of Existing River Discharge / River Level Observation Points

1-3-2 Observation Points Layout and Observation Plan

(1) Observation Points Layout Plan

National land of Timor-Leste is divided into 12 main hydrological units. Specifications of main rivers in each unit are shown in the Table 1-3-2, and formation of units and alignment of main rivers are shown in the Figure 1-3-2.

Table 1-3-2 Specification of Main Rivers

Hydrological Unit		Major Catchment		Area (km^2)	River Length (km)	Mean Annual Runoff (MCM)	Area
No.	Name	No.	Name				
1	Loes	1	Loes	2,417.0	116	1,741	North
2	Laclo	2	Comoro	248.0	33	93	North
		3	Laclo	1,297.0	98	913	North
3	Laleia	4	Laleia	533.0	55	304	North
		5	Vemasse	210.0	48	73	North
4	Seical	6	Seical	489.0	45	269	North
		7	Uaimuhi	137.0	31	137	North
		8	Laivai	170.0	31	102	North
		9	Raumoco	191.0	30	96	North
		10	Malailada	170.0	36	91	North
5	Vero	11	Iralaro	423.0	25	299	North/South
6	Irabere	12	Namaluto	153.0	24	83	South
		13	Irabere	341.0	29	293	South
		14	Bebui	193.0	33	207	South
		15	Cuha	268.0	37	198	South
7	Tukan & Sahen	16	Tuco (Wetuai)	266.0	36	198	South
		17	Luca	238.0	40	173	South
		18	Dilor	225.0	43	154	South
		19	Sahen	294.0	54	230	South
8	Clere & Belulic	20	Clere	288.0	51	213	South
		21	Laclo do Sul	216.0	49	149	South
		22	Caraulun	554.0	52	385	South
		23	Bellic	379.0	46	371	South
9	Mola & Tafara	24	Mola	277.0	39	164	South
		25	Loumea	318.0	36	260	South
		26	Raiquita	111.0	27	99	South
		27	Tafara	360.0	45	304	South
10	Lifau & Tono	28	Tono	499.0	50	311	Oecusse
		29	Bessi	338.0	45	217	Oecusse
11	Jaco			11.0			
12	Atauro			141.0			

Source: Assessment of Water Availability and Water Demand in Timor-Leste at River Basin Level, 2004, ADB

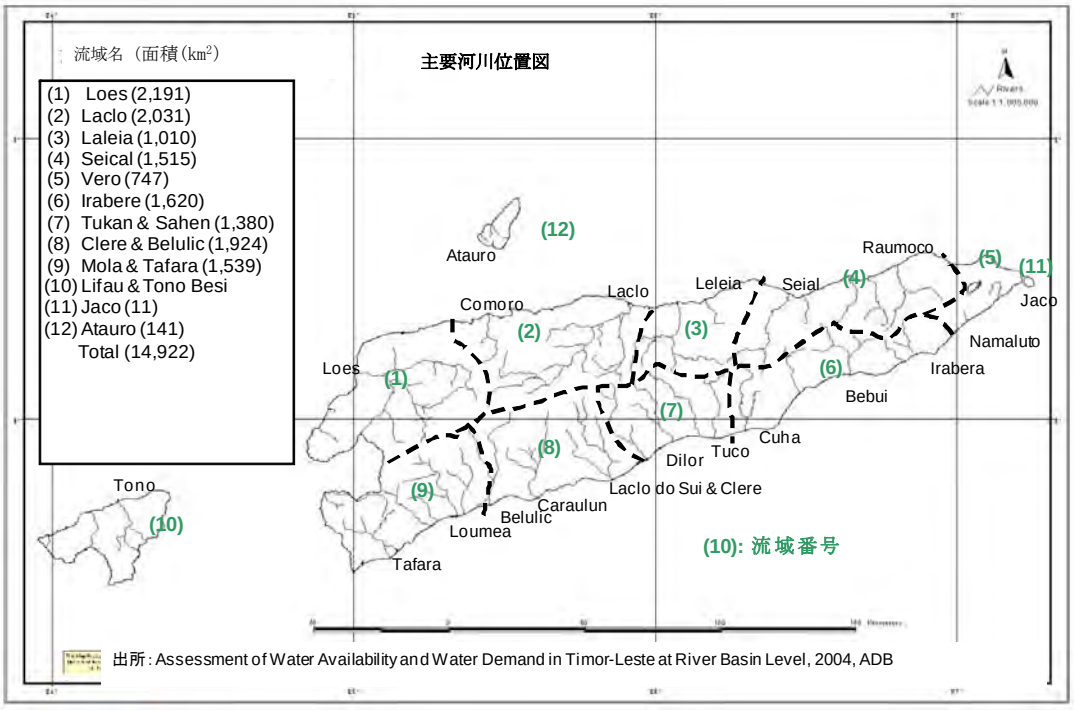


Figure 1-3-2　Formation of Hydrological Units and Alignment of Main Rivers

Target point to install observation equipment in this project are selected considering 1) within catchment area of a main river, and 2) not to install to duplicate point of existing points managed by MPW shown as below.

1)　Self recording river level meter

Three points, Seical River, Irabere River, and Caraulun River which don't have river level meters among 12 main rivers having largest catchment area at each hydrological unit are selected as the target for installation of self recording river level meters. However, at Bebui River within Irabere unit, the diversion weir was built during the national Bebui irrigation project, and river flow is comparatively stable, therefore Bebui river is selected as the target for installation instead of Irabere River.

2)　River level gauge

In order to improve the accuracy of prospective hydrological analysis, the staff gauges should be installed at more than two points including the existing water gauges in each hydrological unit. Therefore Loes, Laclo, Vemasser, Raumoco, Iliai, Irabere, Tuco, Sahen, Tafara, and Tono River are selected as the target for installation. Bessi River is out of target as it lies on the border of Indonesia and its irrigation area is small.

Loes, Laclo, Vemasse, Iliai, Sahen, and Tono River have existing river gauges. Since these gauges are not settled on the bridge foot, new gauge is installed on the bridge foot to make it possible to measure river discharge during rainy season.

3)　River discharge measurement point

Totally 15 points are selected as the targets for river discharge measurement, one at Laleia River which doesn't have existing measurement data and 14 where new river level meters and gauges are installed.

Table 1-3-3 Layout of Hydrological Observation Points

Hydrological Unit No.	Hydrological Unit Name	River Name	Existing Water Level No.	Station Name	Plan
1	Loes	Loes	4	Aiasa	
			6	Baer	
			9	Gleno	
			10	Railako	
					Gauge.1
2	Laclo	Comoro	7(Auto)	Comoro	
			8(Auto)	Atsabe Magapu	
		Laclo	15	Lihuno	Gauge.2
3	Laleia	Laleia	Only gauge		Existing
		Vemasse	3	Waigae	Gauge.3
4	Seical	Seical			Auto.1
		Raumoco			Gauge.4
5	Vero	Iralaro(Iliai)	11	Moches	Gauge.5
6	Irabere	Irabere			Gauge.6
		Bebui			Auto.2
		Cuha	14	Bebui	
7	Tukan & Sahen	Tuco (Wetuai)			Gauge.7
		Sahen	12	Soibada	Gauge.8
8	Clere & Belulic	Clere			Gauge.9
		Caraulun			Auto.3
		Bellic	1	Ainaro	
			2	Beluli	
9	Mola & Tafara	Loumea	5(Auto)	Bulobo	
		Tafara			Gauge.10
10	Lifau & Tono	Tono	13	Oecussi	Gauge.11
11	Jaco	-			
12	Atauro	-			

remarks;

Main river	
New auto level meter	3sites
New water gauge	11sites
Exsisting water gauge	1site
Discharge investigation	15sites

Table 1-3-4 Target points for installation of Hydrological Observation Equipment

№	Name of Rivers	Latitude	Longitude	Water Gauge	Auto Level
1	Loes	8.7423°	125.1333°	√	
2	Laclo in Manatuto	8.5174°	126.0027°	√	
3	Laleia	8.5391°	126.1682°	√	
4	Vemasse at Vemasse Bridge	8.5764°	126.2057°	√	
5	Seical	8.4765°	126.5291°		√
6	Raumoco	8.4146°	126.8086°	√	
7	Ililai	8.4708°	127.1645°	√	
8	Irabere	8.7230°	126.7339°	√	

9	Bebui	8.7971°	128.5612°		√
10	Tuco	8.9198°	126.2783°	√	
11	Sahen	8.9934°	126.0169°	√	
12	Caraulun	9.0832°	125.6907°		√
13	Clere	9.0496°	125.9466°	√	
14	Tafara	9.3528°	125.1876°	√	
15	Tono	9.2882°	124.3509°	√	

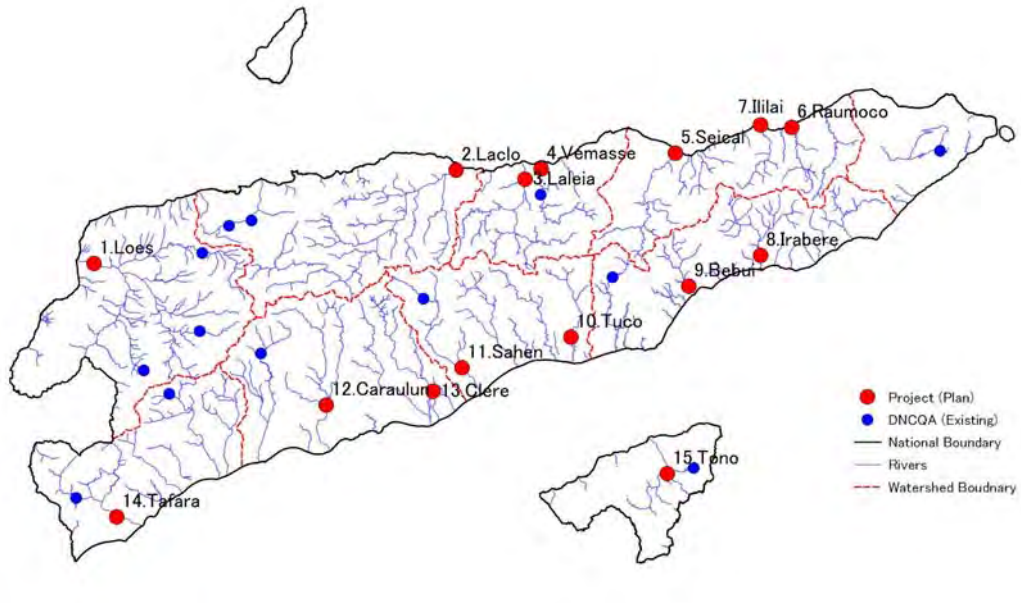


Figure 1-3-3 Target point for installation of Hydrological Observation (Point with mark ●)

(2) Observation Plan

At three points in which an automatic water level meter is installed, observation is to be continued for one year. The measurement of a river level by gauge and river discharge measurement are to be conducted 12 times a year. Measurement is conducted in case certain amount of water is flowing and H-Q curve is created to grasp the relation between rainfall, a river level, and a discharge.

(3) Equipment Plan

1) Self recording river level meter

Three sets of self recording river level meter are procured based on selection of observation points. The battery is lithium type for cameras and data are stored in a SD card.

2) River level gauge

River level gauges are installed at 11 points. Specification of them is same as MPW using and those are procured from a supplier in Dili.

3) Flow meter

Observation points of river discharge are distributed all over the country, so one set of flow meters is procured for each area, eastern, central, and western area, respectively. Flow range differs at the time of flood and draught, 1 set includes both high and low- medium speed equipment, respectively. However, a

high speed flow meter is already procured in advance, 2 high speed and 3 low-medium speed are procured.

4) River level gauge and measuring tape

Five river level gauges for a river cross section survey are procured, 3 are installed and 2 are reserved.

1-3-3 **Observed data**

River level measured by self recording river level meter are shown in from Figure 1-3-4 to Figure 1-3-6. River level - discharge relation curve (H-Q curve) created by observed river level by gauge and discharge are shown in from Figure 1-3-7 to Figure 1-3-21.

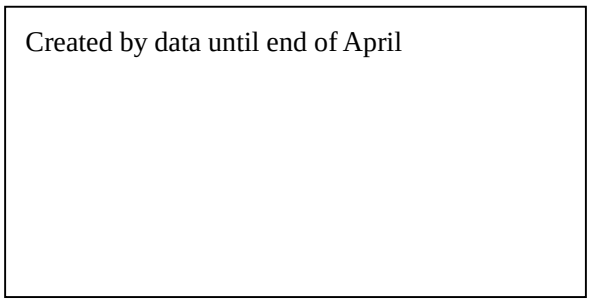


Figure 1-3-4 River Level (Seical Station)

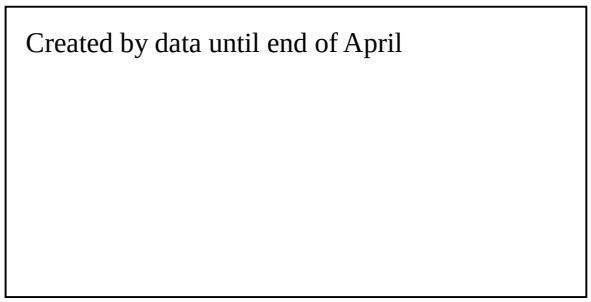


Figure 1-3-5 River Level (Bebui Station)

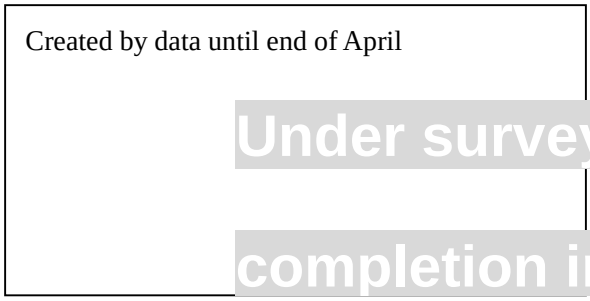


Figure 1-3-6 River Level (Caraulun Station)

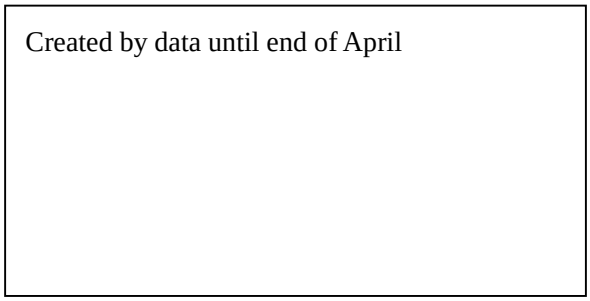


Figure 1-3-7 H-Q Curve (Loes Station)

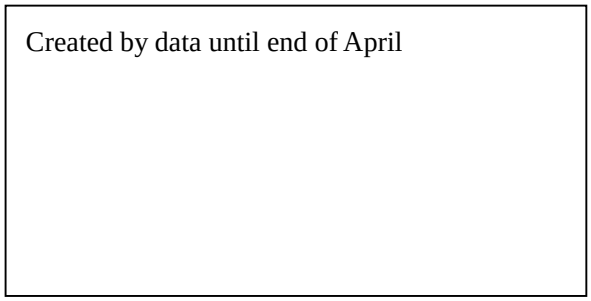


Figure 1-3-8 H-Q Curve (Laclo Station)

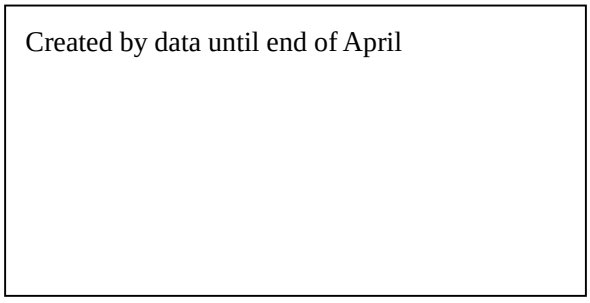


Figure 1-3-9 H-Q Curve (Laleia Station)

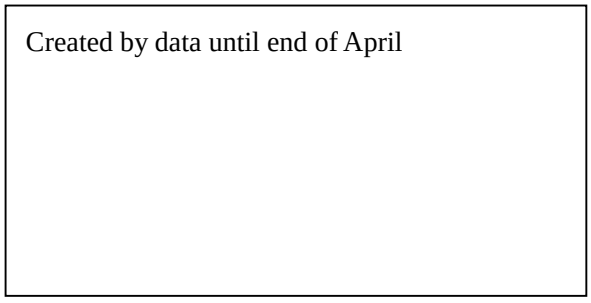


Figure 1-3-10 H-Q Curve (Vemasse Station)

Created by data until end of April

Figure 1-3-11 H-Q Curve (Seical Station)

Created by data until end of April

Figure 1-3-12 H-Q Curve (Raumoco Station)

Created by data until end of April

Figure 1-3-13 H-Q Curve (Ililai Station)

Created by data until end of April

Figure 1-3-14 H-Q Curve (Irabere Station)

Created by data until end of April

Under survey,

completion in Final Report

Figure 1-3-15 H-Q Curve (Bebui Station)

Created by data until end of April

Figure 1-3-16 H-Q Curve (Tuco Station)

Created by data until end of April

Figure 1-3-17 H-Q Curve (Sahen Station)

Created by data until end of April

Figure 1-3-18 H-Q Curve (Caraulun Station)

Created by data until end of April

Figure 1-3-19 H-Q Curve (Clere Station)

Created by data until end of April

Figure 1-3-20 H-Q Curve (Tafara Station)

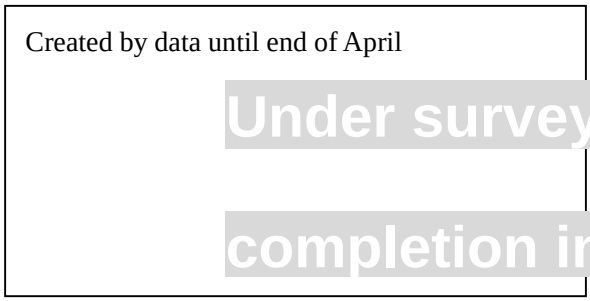


Figure 1-3-21 H-Q Curve (Tono Station)

1-4 FUTURE PLAN OF METEOROLOGICAL AND HYDROLOGICAL OBERVATION

In order to grasp the river runoff situation of Timor-Leste in detail, it is necessary to formulate a staff gauge or a river level meter installation plan for all the 115 basins. In this case, since different viewpoints from irrigation, other water demands such as drinking water, industrial water and so on and disaster prevention such as flood mitigation is also needed, it is required to concerned ministries and agencies for water management to work together. Therefore the responsibility of ministries and agencies shall be cleared and the consensus among them about river level meter installation point and establishment of observation organization across ministries and agencies concerned is required.

Toward this situation, there are two movement shown as below and it is expected that meteorological and hydrological observation system across ministries and agencies is established.

1-4-1 Establishment of Law and Policy for Water Resources and Its Management

The following law and policies for water resources and its management are under formulation.

- National Water Management Low
- National Water Resources Policy
- National Water Supply Policy

One of the objectives of these law and policies are to establish water resource management system across ministries and agencies concerned.

1-4-2 Support by The Other Donors

ALGIS is reviewing meteorological observation system, location of observation stations, and items to be observed. 6 meteorological stations installed in this project will be included in newly reviewed system. SoL, GIZ, Camoes and FAO will continue to provide technical support and, where necessary, funding support, until ALGIS can operate independently.

Appendix 2

APPENDIX 2IRRIGATION INVENTORY SURVEY

2-1 BASIC POLICY OF INVENTORY SURVEY

2-1-1 Compiled Inventory Survey in Past

#	Surveyed year	Implementation Agency	# of Target	Survey Item	Remarks
a	2002	MAF	429 schemes	- Location (District, Sub-District) - Name of scheme and intake type, - Planed irrigation area and functional irrigation area	Conducted by WB which was included ARP (Agriculture Rehabilitation Project)
b	2009	MAF (contract with Indonesian consultant)	100 schemes	- Location (District, Sub-District, Village) - Name of scheme - Water source and intake type - Planed irrigation area - Functional irrigation area - Number of house hold	Survey was conducted as a part of Feasibility Study.
c	--	ALGIS	Approximately 1,400 areas	- Area of farm land - Location of farmland by coordinate *Survey was conducted for categorizing of land use whether Rainfed or irrigated area. Each location are showed by GIS	Survey was conducted by aerial photography, and the found areas were distinguished between Rainfed or Irrigated area by hearing at site.

(1) Conducted by MAF in 2002

- WB prepared the questionnaire and MAF's officer visited the target scheme and surveyed the agricultural situation by the interview.
- Questionnaire consist of two section as following;

  - Interview to farmer and related persons and site survey through questionnaire
  - Interview to district officer

- According to related persons of WB for the survey, the way of calculation on planned area (71,155 ha) is carried out as following;

  -1st step) Formula: Area by interview (ha) = entire amount of planted seeds / $48_{kg/ha}$ *

  *)48kg/ha is unit rate as premise

  -2nd step) MAF's officer ascertained at site with comparing area by calculations and by interview

- Type of intake facility: Intake facility are categorized to three (3) type as following;

  - TC: Technical Scheme :Weir, Intake facility and canal are constructed in scheme
  - S : Semi-Technical Scheme :Intake facility is only constructed in scheme Intake volume might be changed readily due to altering of water stream alignment. (Canal type is lining or earth canal)
  - TR: Traditional Scheme :Intake directly come from river by simple earth and bolder weir. This irrigation way is applied for small scheme

(2) Conducted in 2009 by Indonesia consultant who is contracted with MAF

- Survey is conducted as a part of Feasibility study.
- Irrigation schemes are categorized into three (3) type, A, B, C. According to the survey, type B is 98 schemes, type C is 2 schemes and type A is out of target scheme because of factional

scheme without problem

- Type-A: The scheme has irrigation facility which is functional without problem
- Type-B: The scheme has irrigation facility which is not almost or any functional
- Type-C: The scheme does not has irrigation facility which is expected to construct irrigation facility

- Data collection is conducted by following ;

  - Interview to farmer and related persons and site survey through questionnaire
  - Interview to district officer

- Planted irrigation area and irrigated area are surveyed by interview and site visiting (observation)

- In this survey does not use the result of inventory survey by MAF in 2002

- As the result of survey, the surveyed area classified by points in order the high potential, which are difference weight in each evaluated items.

- The selected irrigation scheme to implementation are not in conformity with high potential area from survey result. The way of selection on the priority scheme is unknown.

(3) GIS data collection by ALGIS in order to survey the land use

- ALGS distinguish the farm land through aerial photography and/or 1/50,000 map in 2003, and classify between irrigated and rainfed area by site interview. The way of survey is assumed to a certain objective evaluation because of judgment by photograph and/or map, although, it might be concern to change the border of irrigated area or area as year passed.

2-1-2 Basic Implementation Policy of Irrigation Inventory Survey

The item of Data Sheet for Inventory Survey should be consisted of the related basic irrigation information so that it could contribute to sustainable maintenance and management of irrigation facility by MAF. Survey should be conducted in order to make clear the feature of each irrigation scheme and the way of maintenance activity for facility.

Basically, survey is conducted by the interview to related persons at site along Data Sheet. Items of Data Sheet prepared prior to survey are consisted of simple questions to make easy understand and keep the quality of assumed answer by respondents. Survey is conducted by three (3) phase as following;

Table 2-1-1 Contents of Each Phase in Inventory Survey

Survey stage	Purpose of survey	Target respondents	Target contents of survey
1st phase (conducted by local consultant)	**Collection of feature property on irrigation scheme** Collect the basic data of irrigation scheme	District officer Extension stuff and/or representative of farmer	Location of scheme, area, number of household, variety of facility, variety of water source, water group, agricultural activity, general condition of processing and market
2nd phase	**Additional and supplemental data on irrigation scheme** Collect more data on a certain category which is showed by analysis of 1st phase	District officer Extension stuff	It depends on the result of 1st phase. Survey include agricultural activity and social condition
3rd phase	Input collected data into GIS	—	Coordinate, basic information of irrigation scheme

Target irrigation schemes are provided MAF's list in 2002. The data from other conducted survey, are used as a supplement.

The data by Indonesian consultants in 2009, are not used directory because of small number of target schemes (100 schemes), in addition, the identifying process of surveyed data between team's and Indonesian's might be assumed to be complex. Therefore these data should be used as requirement in case of comparison of both data after survey and study of priority target scheme for project.

Considering easy analysis and consolidation of surveyed data, conduction of survey is conducted each district. Therefore contract of Inventory Survey should be divided into units by each district. Local consultant should be competence of Titun in order to make easy communication in rural area.

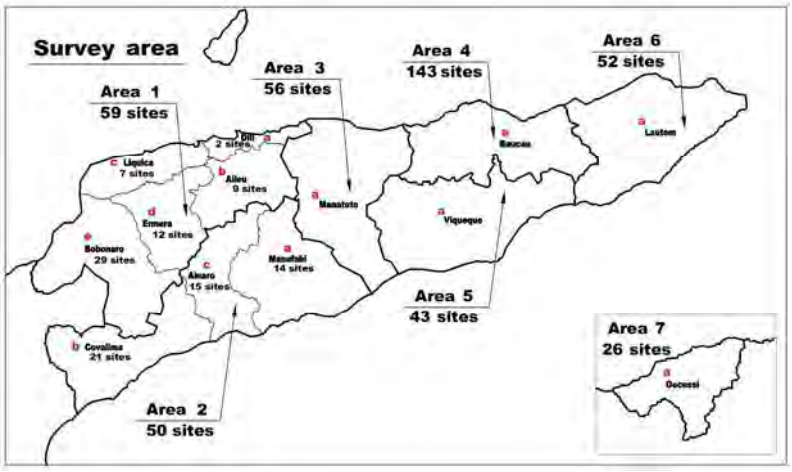
The location of scheme from surveyed coordinate are ascertained on map and collected data are input into GIS.

2-1-3 Grouping of Survey Area

The targeted irrigation schemes are approximately 450 include the non-listed scheme against 429 which are listed schemes by survey in 2002. Since these schemes scatter in Timor-Leste, survey by each local consultant is judged to make groups for practical scheme number so that they could conduct it without over capacity of surveyor or management in a consultant, targeted irrigation schemes are divides to a certain group and judged to survey by multiple local-consultants.

The minimum unit of group is district level in conformity with original listed schemes. In addition, considering the geographical location, targeted schemes are divides into seven (7) areas (refer to Fig 5-1-1). Although schemes number in Baucau district is higher than number of other area, survey will conduct more effective than other district because these schemes locate intensively along the river according to location map by AIGS. Therefore survey unit of contract on Baucau district is one contract area .

In the survey, surveyor or interviewer needs the knowledge about irrigation facility and agricultural activity. The team instruct to the local consultant about Data Sheet through the orientation in order to secure the quality of survey.



Area 1 approx. 59 schemes / Dili(2), Aileu(9), Liquica(7), Ermera(12), Bobonaro(29) / 59 sites
Area 2 approx.50 schemes/ Manufahi(14), Covalima(21), Ainaro(15) / 50 sites
Area 3 approx.56 schemes/ Manatuto / 56 sites
Area 4 approx.143 schemes/ Baucau / 143 sites
Area 5 approx.43 schemes/ Viqueque / 43 sites
Area 6 approx.52 schemes / Lautem / 52 sites
Area 7 approx.26 schemes / Oecusse / 26 sites

429 sites in total (based on 2002 survey)

Figure 2-1-1 Demarcation of Survey Unit

***) Reference Number of Irrigation Schemes**

In Inventory Survey targeted scheme is showed by the reference number as following;

Number of area (refer to Fig. 5-1-1) - Alphabet for district (refer to Fig. 5-1-1) - Number of irrigation scheme - Classified irrigation scheme by MAF listed in 2002 (TC, S, TR)

For example, in Maliana irrigation scheme in Bobonaro district, it shows **1-e-1TC.** All of reference number is showed in Appendix

2-2 IMPLEMENTATION OF SURVEY

2-2-1 Questionnaire (Data Sheet)

(1) 1st phase of survey

1st phase of survey conduct with data sheet which are consisted of simple questions to make easy understand and keep the quality of assumed answer by respondents. A part of questions are judged to conduct in 2nd phase, according to the discussion with MAF prior to survey. The questions on Data Sheet are prepared with reflecting the opinions from related parsons.

(2) 2nd phase of survey

2nd phase of survey is conducted about as following items which are judged to do properly in this phase. Since some of items of question in general are involved in report by the other donor and obtained data by other survey in team, these report and data are referred in 2nd phase of survey. In addition, quality of these data is ascertained through this survey.

1. Demarcation of women's works and proportion of women's group

   According to the discussion with MAF in 1st phase survey, MAF advice to team that situation of women's works and working demarcation between men and women are difficult to ascertain quantitively by interview. Therefore, 1st phase of survey focus on presence of women's activity who is the member of water group (include WUA) and has the right in the member. In 2nd phase, survey conduct about presence of women's group which consist of women only and situation of women's activity through interview .

2. Land property

   According to the discussion with MAF in 1st phase survey, MAF advice that situation of land property is difficult to ascertain quantitively by interview. The team judge that this question should be low priority in irrigation and agricultural situation, and interview to the related agency rather than individual persons. Therefore, questions for land property are surveyed in 2nd phase. As for the activity of land property in Timor-Leste, Ministry of Justice start to deal with this matter

3. Cropping pattern

   According to the discussion with MAF in 1st phase survey, MAF advices that cropping pattern might be referred to report* by Seed of Life. The team conducts survey through interview to extension stuff with using report by Seed of Life in 2nd phase. In addition, the obtained answer whether the double cropping of rice from 1st phase survey is generally ascertained in 2nd phase.

   *) Seed of Life, Home-page

4. Situation of rice seed

   According to the discussion with MAF in 1st phase survey, MAF advices that variety of rice seed

in use might be referred to report* from Seed of Life. The team conducts survey through interview to extension stuff with using report by Seed of Life in 2nd phase. In addition, the obtained answer about agricultural production (yield etc.) from 1st phase survey is generally ascertained in 2nd phase.

*) Seed of Life, 3 Baseline Survey Main Report

5. Land preparation

According to the discussion with MAF in 1st phase survey, MAF advices that usage rate of agricultural machine is difficult to ascertain quantitively by interview. Since agricultural machines are leased at machinery center or district office in MAF, usage rate of machine is ascertained there through interview in 2nd phese survey.

2-2-2 Implementation of Survey

(1) 1st phase survey (Site survey by local consultant)

Site survey was conducted by interview in the middle of December in 2013 to end of March in 2014. The priority target respondent is extension stuff in each scheme. In case of absence of extension stuff, scheme representative such as group leader is target respondent.

(2) 2nd phase survey (Interview by team)

Survey was conducted by interview in the middle of March in 2014 to end of June in 2014. In the survey, anther questionnaire is prepared and team interview and/or conduct the data collection to each district office of MAF or related agency.

2-3 RESULT OF SURVEY

The general summary data table on survey is shown on "5-4". The general report on survey is shown at below Total surveyed schemes number is 425 schemes except for expired schemes.

(1) Basic information of irrigation scheme by Inventory survey

Table 2-3-1 Basic Information of Irrigation Scheme in Districts

District	Number of scheme	Number of each scheme class in 2014			Irrigated Area of each classified scheme in 2014				Potential area
		TC	S	TR	TC	S	TR	Total (ha)	Total (ha)
Aileu	9	1	2	6	30	105	132	267	377
Ainaro	15	0	4	11	0	248	900	1,148	5,199
Baucau	152	2	1	149	1,066	207	7,754	9,027	17,359
Bobonaro	29	2	9	18	930	3,232	731	4,893	6,884
Cova Lima	19	2	6	11	692	668	1,322	2,682	4,647
Dili	2	0	1	1	0	10	38	48	125
Ermera	14	0	7	7	0	593	592	1,185	1,167
Lautém	47	2	1	44	103	944	1,815	2,862	2,743
Liquiçà	7	0	2	5	0	217	469	686	916
Manatuto	54	0	6	48	0	1,966	2,509	4,475	6,093
Manufahi	11	1	4	6	850	305	377	1,532	8,332
Viqueque	40	6	4	30	1,871	702	1,823	4,396	8,173
Oecusse	26	9	17	0	399	759	0	1,158	4,487
	425	25	64	336	5,941	9,956	18,462	34,359	66,501

*1) Classification of facility by MAF

- TC : Technical Scheme : Weir, Intake facility and canal are constructed in scheme
- S : Semi-Technical Scheme : Intake facility is only constructed in scheme Intake volume might be changed readily due to altering of water stream alignment. (Canal type is lining or earth canal)
- TR : Traditional Scheme : Intake directly come from river by simple earth and bolder weir. This irrigation way is applied for small scheme

*2) Classification of "Technical scheme : TC", "Semi-Technical scheme : S", "Traditional scheme : TR" in this Survey does not necessarily match with classification of facility by MAF. For example, Traditional scheme by MAFs classification lead the river water to the intake by cofferdam. Some of Traditional scheme, however, consist of wet masonry at intake without gate, which is conformity with classification of Semi-Technical scheme according to MAFs classification. Therefore, classification between Semi-Technical scheme and Traditional scheme are mixed partly and not clear definition. In here, these classifications can be evaluated general trend of the situation or development on irrigation facility

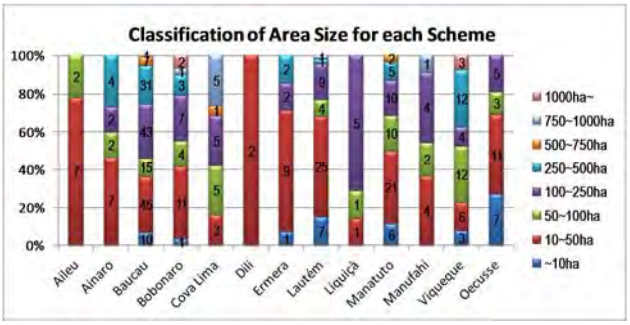


Figure 2-3-1 Classification of Area Size for Each Scheme

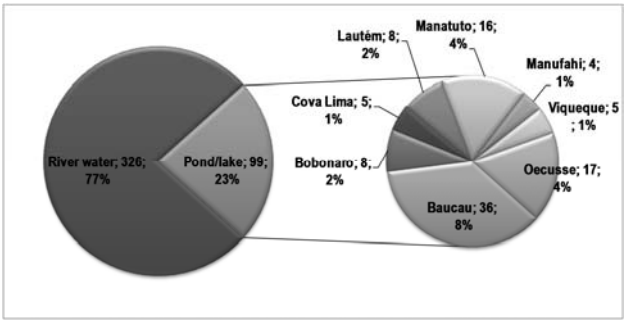


Figure 2-3-2 Water Source of Irrigation Scheme

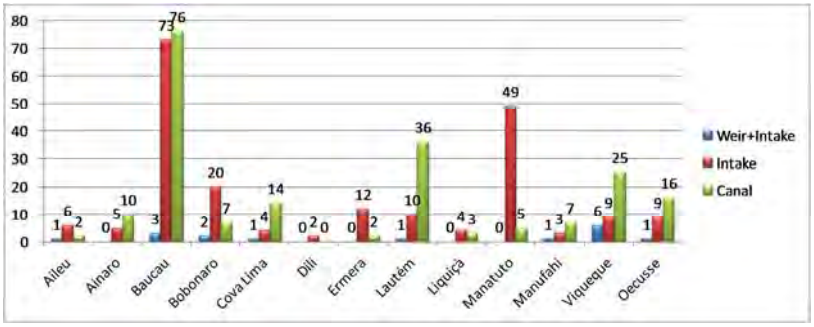
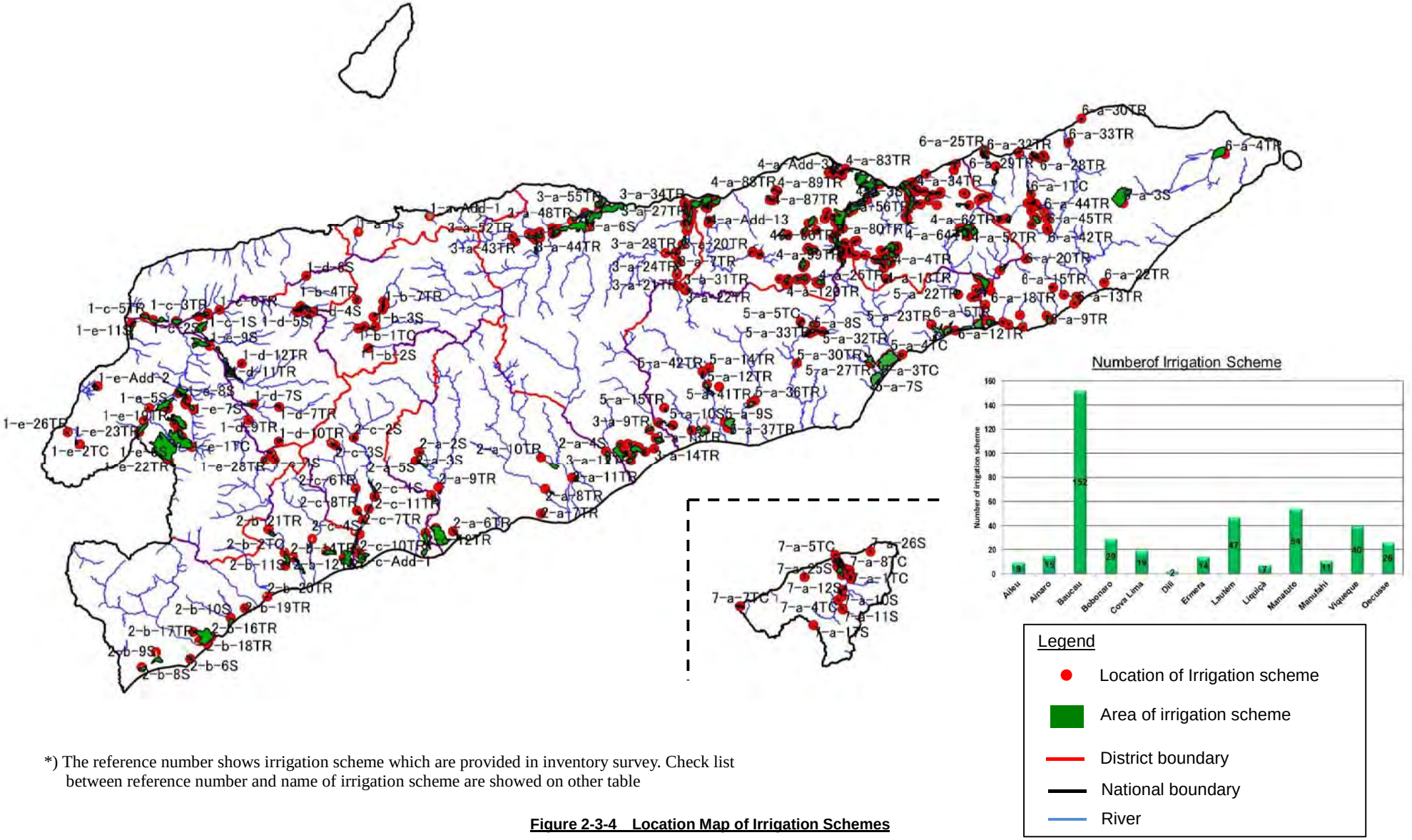


Figure 2-3-3 Variety of Irrigation Facility in Each District

- The irrigated area by inventory survey is approximately 34,000 ha.
- Baucau district is most number of irrigation scheme and irrigated area. While, the largest unit irrigated area per irrigation scheme is Bobonaro district (168 ha/scheme) which is three (3) times as many as Baucaus unit irrigated area
- On Fig. 5-3-1, classification of irrigated area in each scheme is almost 10ha~50ha.
- Traditional scheme account for approximately 80% in 425 schemes, however, irrigated area by traditional scheme account for 50% in total irrigated area. Traditional scheme is small irrigation scheme comparatively.
- On Fig. 5-3-2, the irrigated area of Technical and Semi-Technical scheme accounts for 20%. It shows that these schemes is large irrigation scheme comparatively
- River water as water source of irrigation account for approximately 80% in 425 schemes. Spring and pond account for 20%. Especially, in Oecusse district, 17 schemes in 26 schemes use spring and pond which is assumed from riverbed water
- Lining canal and/or earth canal in irrigation facility exist in all of schemes



*) The reference number shows irrigation scheme which are provided in inventory survey. Check list between reference number and name of irrigation scheme are showed on other table

Figure 2-3-4 Location Map of Irrigation Schemes

●West area

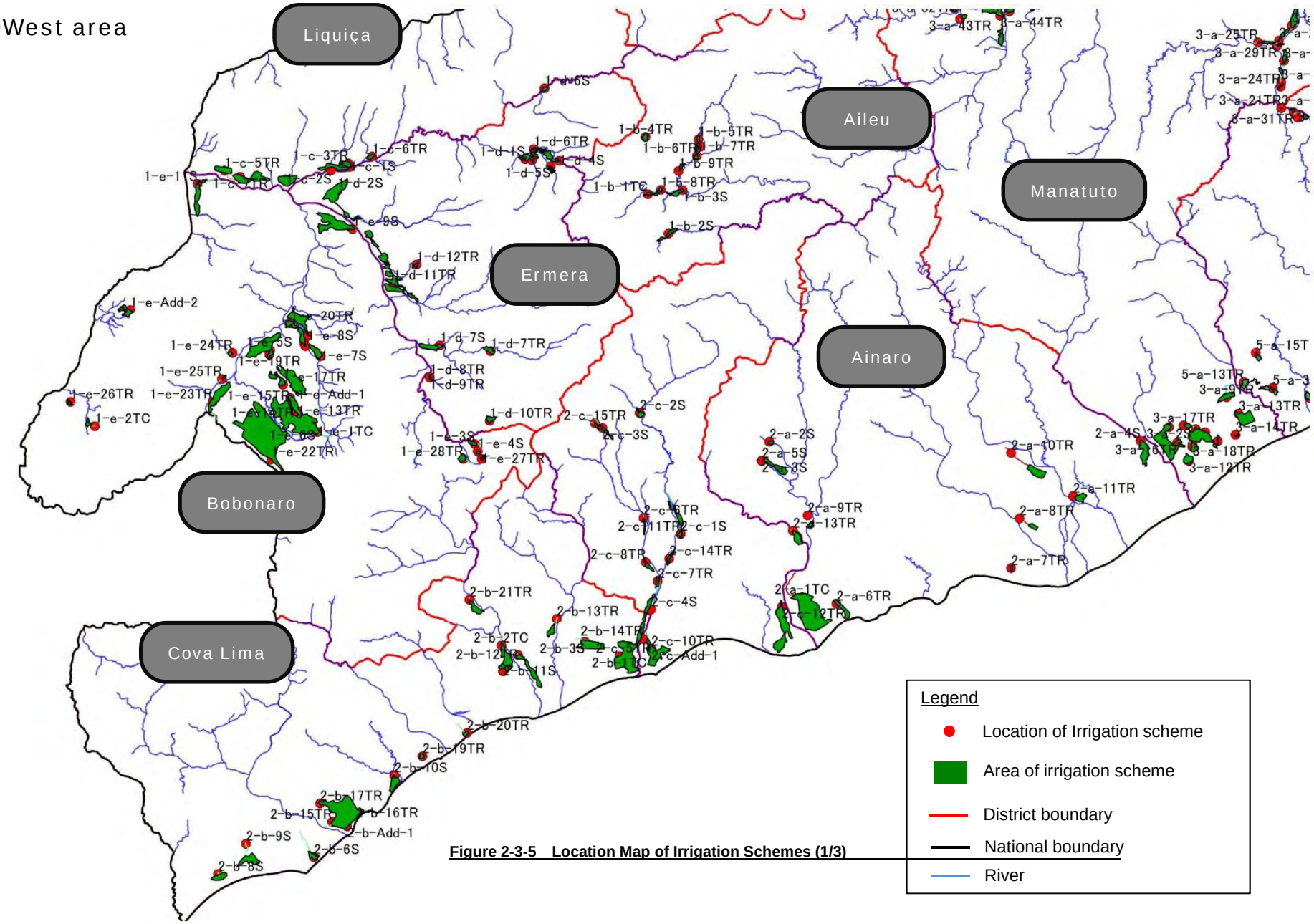


Figure 2-3-5 Location Map of Irrigation Schemes (1/3)

●Middle area

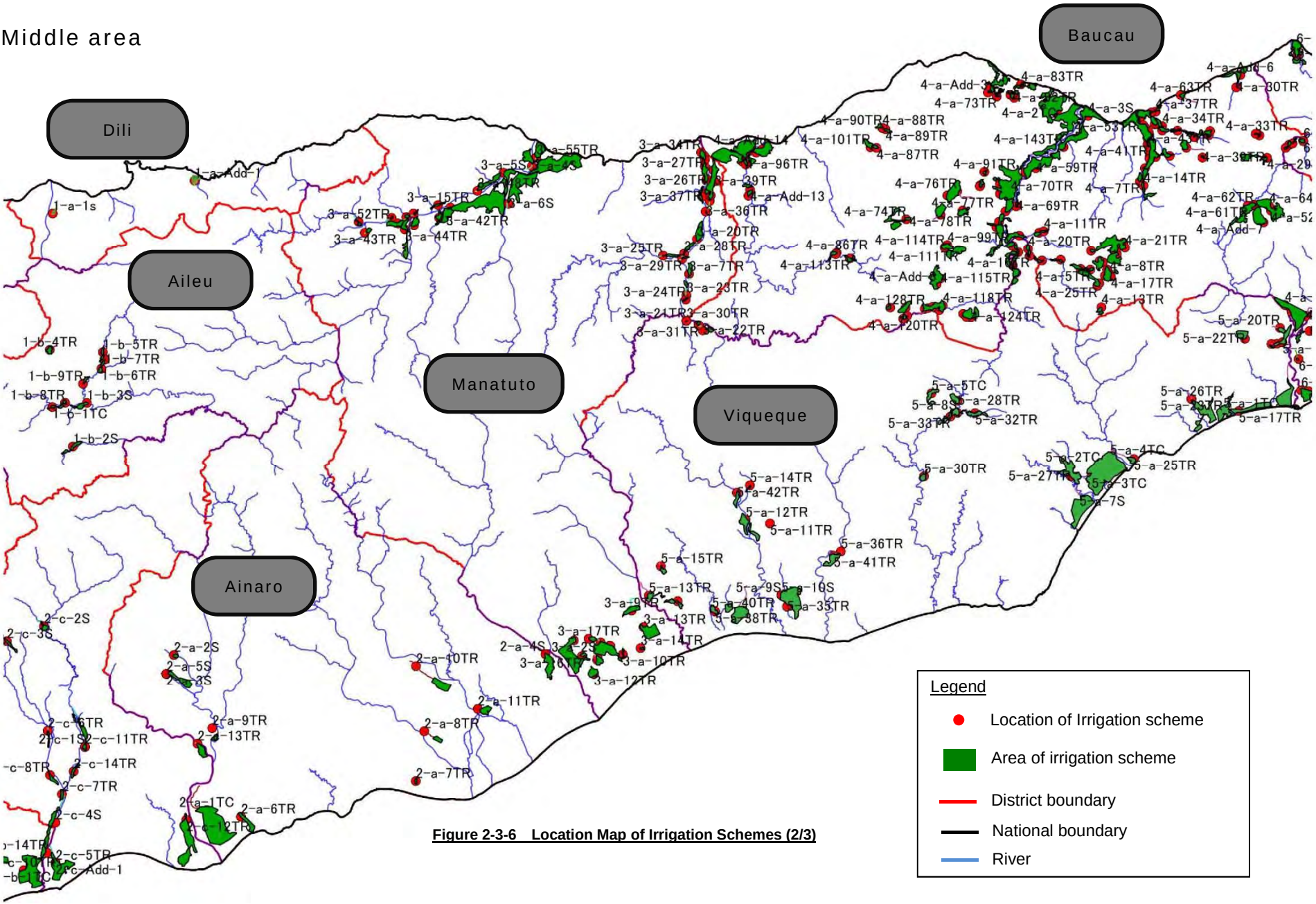


Figure 2-3-6 Location Map of Irrigation Schemes (2/3)

●East area and Oecusse

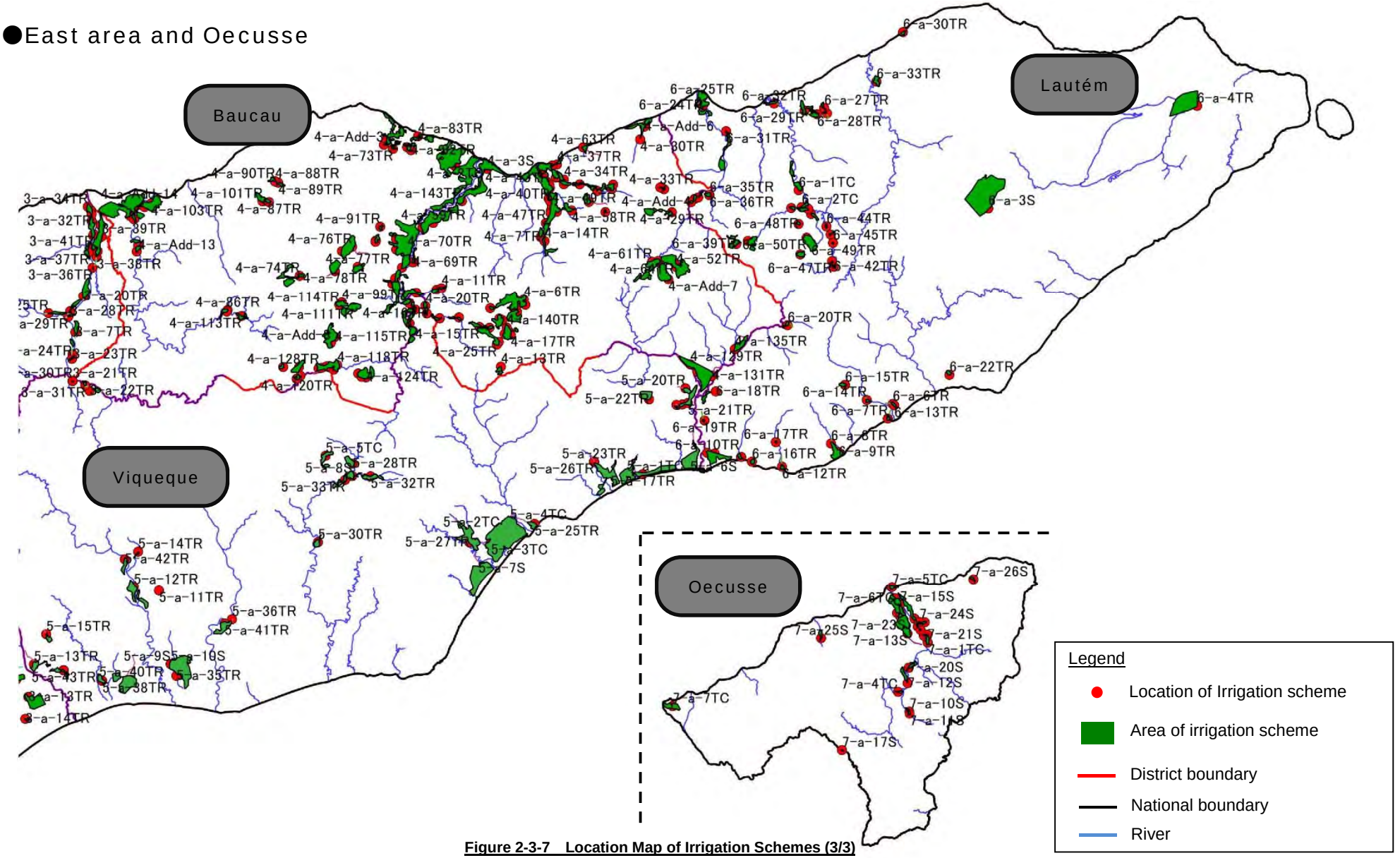


Figure 2-3-7 Location Map of Irrigation Schemes (3/3)

(2) Issue of irrigation facility and scheme

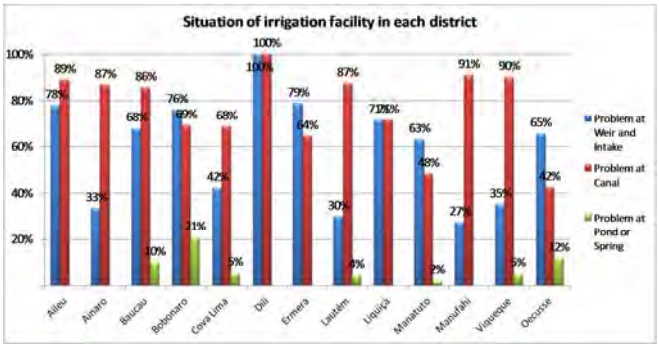


Figure 2-3-8 Situation of Irrigation Facility in Each District

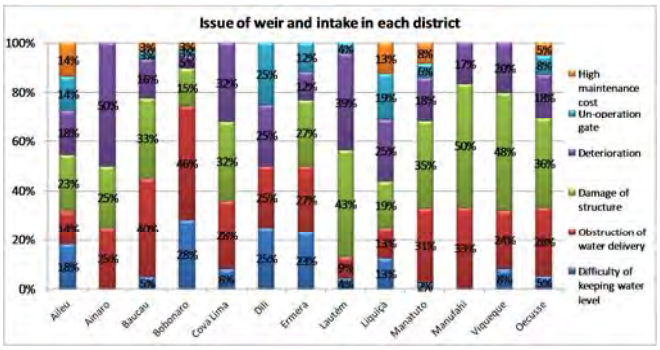


Figure 2-3-9 Issue of Weir and Intake in Each District

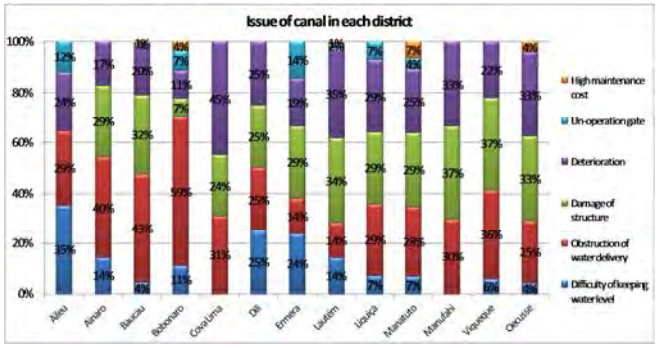


Figure 2-3-10 Issue of Canal in Each District

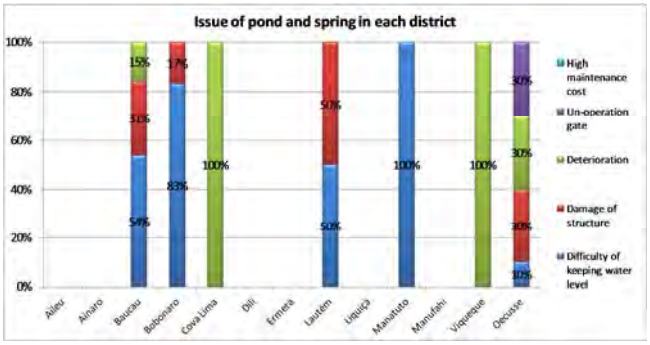


Figure 2-3-11 Issue of Pond and Spring in Each District

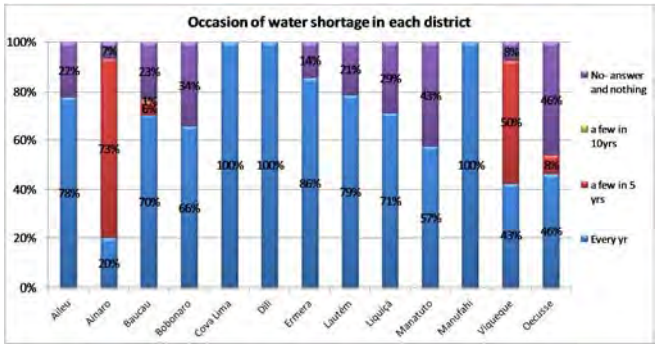


Figure 2-3-12 Occasion of Water Shortage in Each District

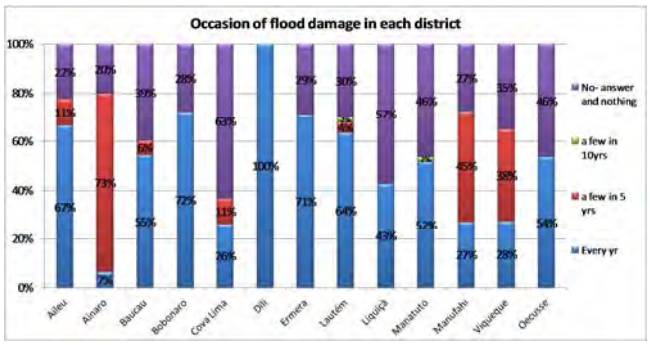


Figure 2-3-13 Occasion of Flood Damage in Each District

- On Fig. 2-3-8, issue of irrigation facility is existence in all of district.
- On Fig. 2-3-9 and Fig. 2-3-10, as the issue of "weir and intake" and "canal", "prevention of flow water" and "deterioration" are replied. The cause of "Prevention of flow water" is assumed to the sedimentation and flew trash.
- On Fig. 2-3-9, as the issue of "weir and intake" and "canal", " Difficulty of keeping water level " is not majority situation in each district, however, these irrigation schemes are assumed to suffer from low river bed and/or changing water stream, and possibility of not to take enough water or completely.

- On Fig. 2-3-10, the scheme has issue of "Difficulty of keeping water level " in "Canal" is assumed to possibility of low water level in secondary and/or tertiary canal, and irrigation water cannot supply to paddy field.
- On Fig. 2-3-9 and Fig. 2-3-10, in Aileu, Baucau, Bobonaro, Lautém, Liquiçà, Manatuto, Oecusse replied "High maintenance cost" of facility, are assumed to the possibility of lack of organic activity for maintenance, while its cost burden to farmer.
- On Fig. 2-3-11, since Viqueque, Oecusse is fewer problems for "Difficulty of keeping water level, the water source is assumed to stable comparatively due to "Spring and Pond".
- On Fig. 2-3-12, all of district replied water shortage is felt in every year. Especially, in Covalima and Dili replied water shortage is felt all of schemes. Ainaro, Viqueque, Oecusse is comparatively fewer water shortage in every year than other district.
- On Fig. 2-3-13, in general tendency of occasion of flood damage, all of district have flood damage to irrigation scheme in every year. In generally, all of scheme have flood damage in a few times in five (5) years

(3) Situation of Organization in Irrigation Scheme

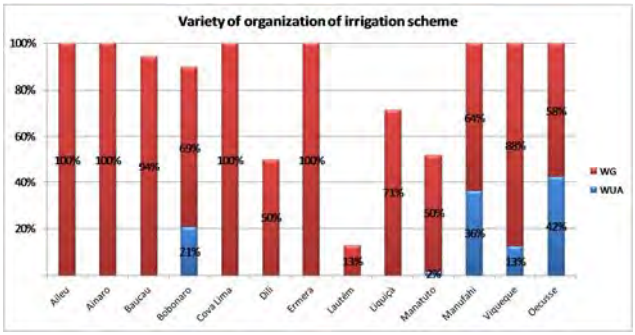


Figure 2-3-14 Variety of Organization of Irrigation Scheme

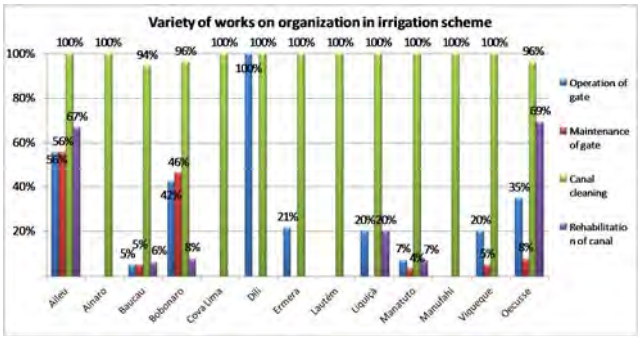


Figure 2-3-15 Variety of Works on Organization in Irrigation Scheme

- On Fig. 2-3-14, WUA (water users association) show the authorized organization by MAF. In general, the proportion of WUA is low ratio, however, WG (Traditional Water Group) exist in all of district.
- On Fig. 2-3-14, the proportion of organization in Lautém is extremely low. However respondents request the instruction of way establishment of organization by 90% respondents in survey. Schemes in Lautém are assumed to feel the necessity of organization.

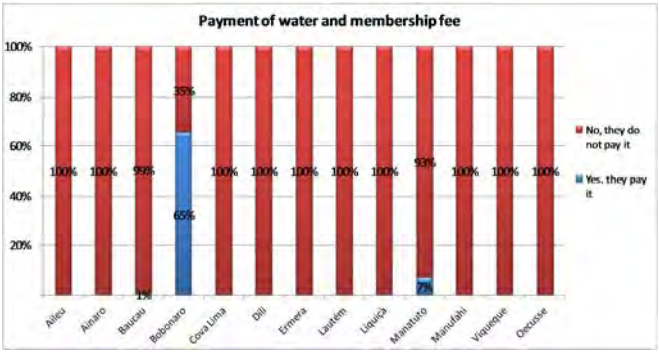


Figure 2-3-16 Payment of Water and Membership Fee

- On Fig. 2-3-15, as the variety of works in organization, the cleaning of canal is conducted in almost schemes. In Aileu, Baucau, Bobonaro, Manatuto, Viqueque, Oecusse district, are assumed to conduct the various works for facility maintenance.
- According to the Situation of water and membership fee on Fig. 2-3-16, in Baucau, Bobonaro, Manatuto district the respondents replied the some farmers pays fee, however, the other district

does not pay fee at all. In other survey by the team, they pay them for the necessity situation, while the farmers do not pay periodically fee.

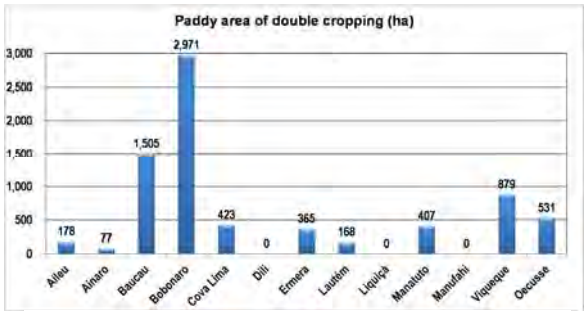
- According to the interview at survey, the way of payment for the organization in the respondents who replied pay the fee of organization is carried out by two -way, money and rice. In Bobonaro district the respondents replied that water fee is paid by money in eight (8) schemes out of 17 schemes (Ave. 1.1$/ha), on the other hand, by rice in nine (9) out of 17 schemes.

(4) Agricultural situation

Survey of agricultural situation was conducted by interview to a few farmers or extension stuff in each scheme. Therefore the statistical quality could be low, so the answer does not necessary show the majority trend. The totalized answers, however, are assumed to show a certain trend. In here, these replied answers of each district are shown as the reference.

- On Fig. 2-3-17, all of district plant the rice. In Aileu, Baucau, Bobonaro, Ermera, Dili, Manatuto district, these district plants comparatively various crops except rice.

- On Fig. 2-3-18, in Aileu, Bobonaro, Ermera, Viqueque, Oecusse district, these districts carry out the double cropping comparatively. Exat double cropping, however, is difficult to fix, according to the number of respondunts who reply the double cropping simply are convert to area of double cropping, area of couble cropping for each district is shown on right figure. Bobonaro is shown trend to the largest area on double cropping, and followed by Baucau and Viqueque. A propotion of area of assumed total double cropping area for entire irrigated area is around 20% (7,503ha / 34,359ha). In other words, double cropping is few caltivation in Timor-Leste and a few district only are assumed to carry out double cropping



Reference : Double rice crop at each district (Assumed)

- On Fig. 2-3-19, the respondents who replied nothing of double cropping, caused by water shortage which account for 70% of the reason.

- On Fig. 2-3-20, agricultural income of Bobonaro, Ainaro, Viqueque district are large comparatively.

- On Fig. 2-3-21, almost district replied that farmer purchase rice.

- On Fig. 2-3-22, transaction of rice is carried out in more than 80% district. In Bobonaro, Oecusse district, the respondents who sell rice is higher than that who buy the rice. In other words, these district is assumed to have a certain extent of market and commercial activity. On the other hand, the figure is show the respondents who deal both buy and sell. According to the other survey, these farmer spend on temporary expense to get money, and famer will cover shortage of rice later to buy rice. This trend is relatively observed at south districts, these famer are assumed to less of opportunity to obtain money.

- The way of selling rice is that more than 80% farmers brings rice to the market directly and/or sell at own house. On the other hand, in Manatuto district, farmer sell rice at market through the trader as the trend.

- The rice cropping pattern in each district does not observe the extreme difference. The trend of rice is shown as followings; (The surveyed cropping pattern is shown on Appendix)

  ; In rainy season, the land preparation and nursery are carried out from November to January

which are getting increase the rain. The harvest is carried out from May to July which are getting reduce the rain.

; In dry season, the land preparation and nursery are carried out from April to June after harvest which is planted in rainy season, and rice is planted from August to November which are few rain season as the trend.

; In Viqueque, Manufahi district such as south area in Timor-Leste, these area are observed that farmer plat the rice in few rain fall of dry season.

- On Fig. 2-3-23, in Oecusse is high ratio of usage for fertilizer, insecticide and weedicide. On Fig. 2-3-24, 25, 26, in Oecusse, the respondents are replied that these are obtained by farmer themselves.

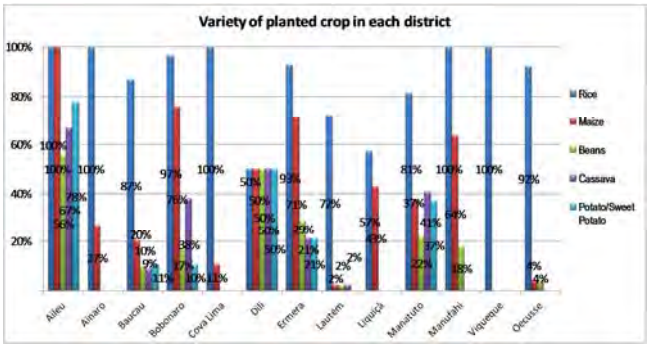


Figure 2-3-17 Variety of Planted Crop in Each District

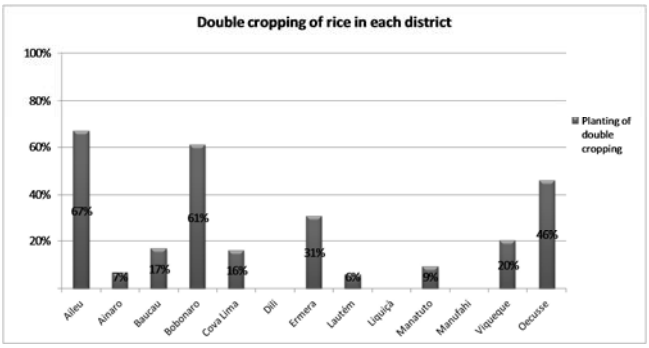


Figure 2-3-18 Double Cropping of Rice in Each District

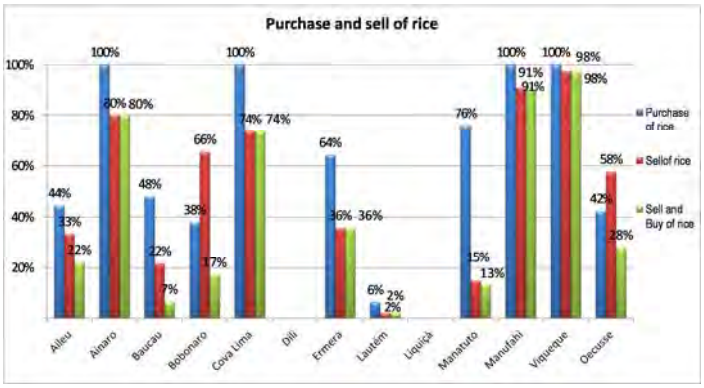


Figure 2-3-19 Purchase and Sell of Rice

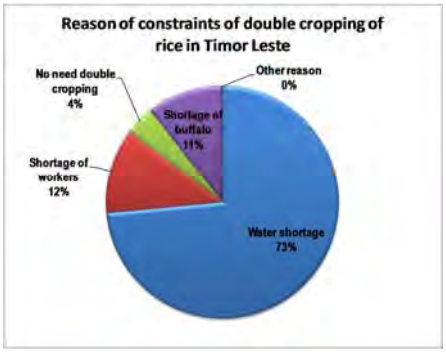


Figure 2-3-20 Reason of Constraints of Double Cropping of Rice

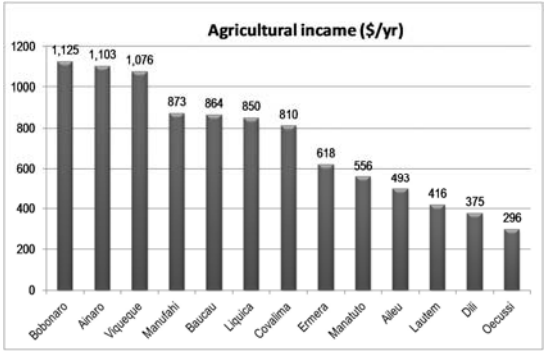


Figure 2-3-21 Agricultural Income in Each District

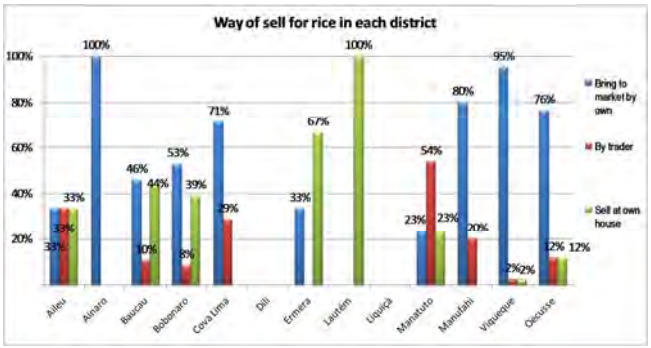


Figure 2-3-22 Way of Sell for Rice in Each District

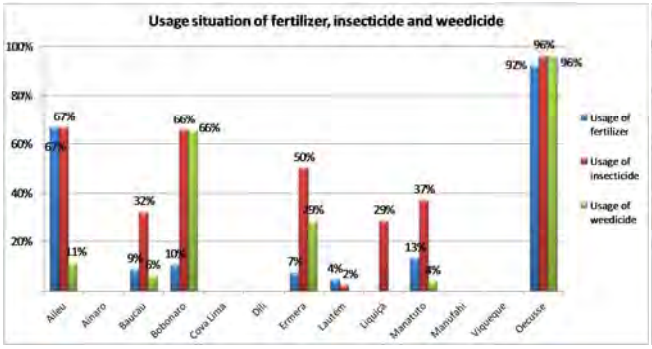


Figure 2-3-23 Usage Situation of Fertilizer, Insecticide and Weedicide

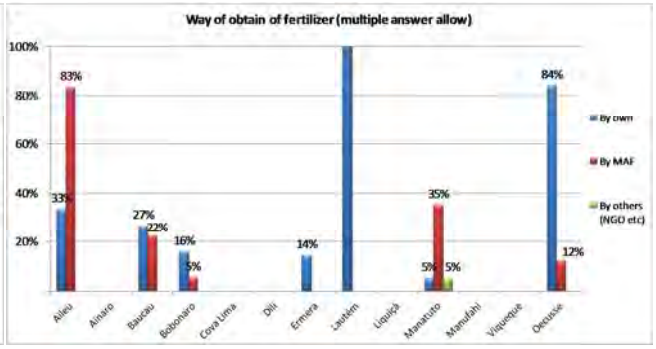


Figure 2-3-24 Way of Obtain of Fertilizer (Multiple answer allow)

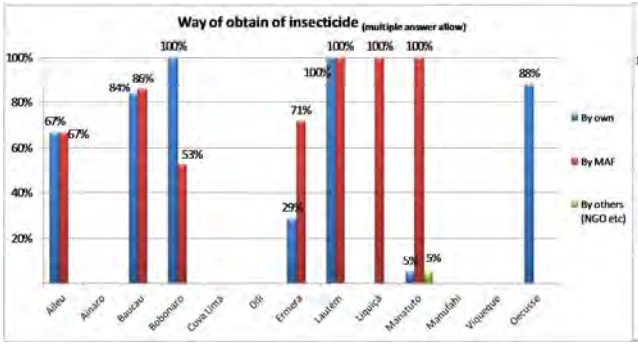


Figure 2-3-25 Way of Obtain of Insecticide (Multiple answer allow)

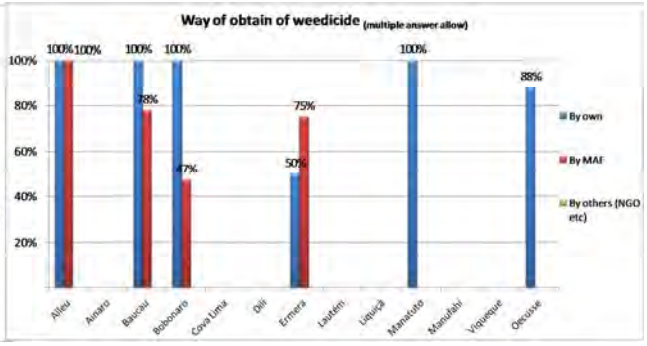


Figure 2-3-26 Way of Obtain of Weedicide (Multiple answer allow)

(5) Social condition

Survey of Social situation was conducted by interview to a few farmers or extension stuff in each scheme. Therefore the statistical quality could be low, so the answer does not necessary show the majority trend. The totalized answers, however, are assumed to show a certain trend. In here, these replied answers of each district are shown as the reference.

- On Fig. 2-3-27, the irrigation water is used variously as well as agriculture. Especially, usage for washing, taking bath and drinking water of livestock are high ration. In addition, a part of irrigation scheme in half of district is in use as drinking water for residents
- On Fig. 2-3-28, agricultural works are demarcated between man and woman. Especially, the woman's majority of works are "planting and nursery" and "harvesting".
- According to the survey woman who has the right of organization and engage in activity account for 10 districts in all of 13 districts
- According to the survey, the respondents who replied issue of conflict is nothing.
- As for the land owner classification, it is not almost replied because of obscurity classification by the government. The river is under the government obviously, the obvious boundary, however, is not formulated. In addition, hills and wilderness area are insisted individually by conventional owner. The survey of land owner-ship will be conducted by Portuguese from 2014 under the Ministry of Justice in Timor-Leste.

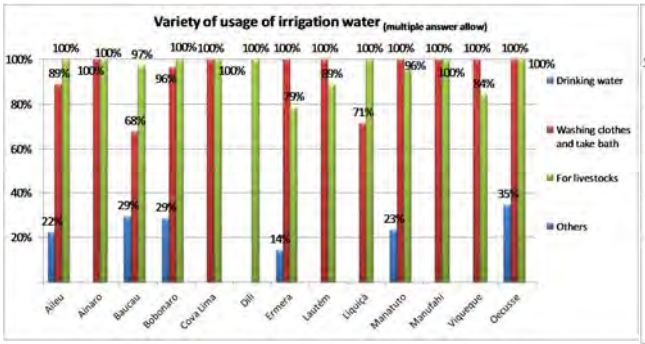


Figure 2-3-27 Variety of Usage of Irrigation Water (Multiple answer allow)

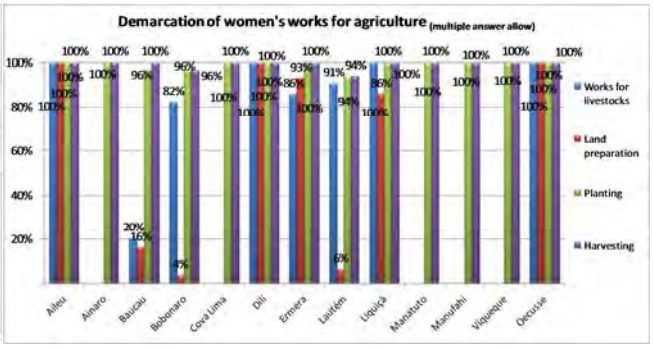


Figure 2-3-28 Demarcation of Women's Works for Agriculture (Multiple answer allow)

●Observation for each district on Inventory survey

District name	Geological situation	Irrigation and organization	Agricultural and marketing activity
Aileu	Aileu is contiguous at south of Dili, 900m ~1,200m height from the sea level. Landscape is almost mountainous area and scheme size is small, 10ha ~50ha. Almost irrigation schemes is concentrated at middle of district where it is junction of river.	Identified irrigation schemes are 9. Schemes of all takes water from river. As for the arrangement level of irrigation facility, 6 schemes are concrete and wet masonry type on intake. In other words, level of irrigation facility seem to be relatively advanced The damage and obstruction of water delivery on facility, however, are observed by sand and stone in flood time which is caused by steep river bed in mountainous area. These problem is answered more than 70% of respondents. Especially, respondents in this district answered for the problem of high maintenance cost on facility, which means that these people show the conscious of maintenance cost as issue. As for the situation of organization of famer, respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, is in all of scheme. Activities of WG are many varieties like operation of gate and maintenance, cleaning and rehabilitation of canal, which show aggreccive activity compared with other district. Especially, the ratio of performance on gate maintenance and canal rehabilitation show high trend in nationwide. In other words, these farmers assume to have high conscious on corporative maintenance works for facility. On the other hand, according to this survey, the collected regular water fee is not conducted. The cost on above urgent or irregular works assumed to be collected on the spot.	The high ration of agricultural production are rice and maize. In addition, vegetable like potato and beans as well as above. As the underlying reason, Aileu is contiguous at Dili which is large demand area and these situation lead to largely product the cash crop. In general, cropping of vegetable is observed at which is available taking water through year, even a little water. The respondents answered to double cropping of rice account for 70% in who has rice production. It is assumed to be available to take water through year, even a little water. Buy and sell on rice is observed on survey. Ratio of buy is higher than sell, in other words, shortage of rice is assumed to relatively be in Aileu. The way to sell of rice are used to through trader and/or bring to market by own. Ratio of fertilizer and insecticide show high ration in the nationwide. Famers assume to have high knowledge on agricultural technology relatively. As for the women's activity, according to survey, participation on all of farming activity is observed. In other survey, activity on vegetable is less heavy works than rice production works, therefore, women is used to work mainly for vegetable.
Ainaro	Ainaro is located at south west in Timor-Leste and south area is contiguous to Timor sea. At north area is observed high mountain which is more than 2,000m, and land level is gradually low toward south, plane area is observed near the sea. Agricultural production is mainly rice. In south area, construction of irrigation facility plan and implementation is projected by MAF. (Raibere, Bounk, Cassa)	Identified irrigation schemes are 15. Schemes of all takes water from river. Almost type of intake show traditional type which has access canal along river stream and often make problem to sedimentation in food season. That issue is the highest points in canal problem. The respondents of water shortage is the highest in the nationwide, in addition, flood damage show high rank in	The high ration of agricultural production are rice and maize. According to survey, vegetable like potato and beans is not so much. The respondents answered to double cropping of rice account for less than 10% in who has rice production. Buy and sell on rice is observed at survey. According to survey, persons who buy rice are in all of scheme, in other words, shortage of rice is assumed to relatively be

		nationwide. However, as for frequency of flood, every year occurrence is few and one time in 5 years is majority of trend. As for the situation of organization of famer, respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, is in all of scheme. Activities of WG are concentrated to cleaning canal. According to this survey, the collected regular water fee is not conducted. However, when the facility has damage, the materials and expense for works assumed to be collected on the spot. Therefore, periodical activity is almost concentrated on canal cleaning, but the urgent rehabilitation works is conducted on the spot.	in Ainaro. Persons who makes both of buy and sell accounts for 80% which means that relying sell rice as the opportunity of obtaining money assume show high trend. At the view point of income, Ainaro is second income in nationwide. however, considering main transaction base on rice since main crop is rice in Ainaro, an expense to buy rice is assumed to be in conformity with transaction. In other words, balance of in and out is not so much as surveyed income. Respondents who use fertilizer, insecticide and weedicide are not shown on survey. To proper use of these will be expected to contribute to expansion of rice production. As for the women's activity, according to survey, participation on seeding and harvesting is observed. Basically, farmers activity conduct with cooperation between men and women. The women member of WG who has right of decision are not in the member.
Baucau	Baucau is located at north in Timor-Leste and landscape is wide to east and west. At north area is observed plane area. Central city of Baucau is second city next to Dili in Timor-Leste. The construction of irrigation facility plan and implementation is projected by MAF (Watuwa, Secial). And JICA support to Buluto rehabilitation project.	Identified irrigation schemes are 152. About 80% of schemes takes water from river and about 20% from lake or pond. Baucau is the largest number of irrigation schemes in 13 districts as well as areas. The most common classification of area is 10~50ha and 100~250ha, which account for 60% in total. Almost irrigation schemes scatter along river side and mountainous schemes are identified which has paddies on slope. More than 90% is traditional intake which have problem to obstruction of taking water and damage of facility. Specified problem is assumed to be sedimentation and flash out intake by flood. In addition, as for lake and pond are indicated to diminishing function and difficulty of water keep by low function. Water-tightness and protection of leakage water is necessary measures . Respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, account for 90% of schemes. Almost 5% of WG are conducted to variety activity	The high ration of agricultural production are rice and maize. The vegetable like potato and beams account for less than 20%. In general, cropping of vegetable is observed at which is available taking water through year, even a little water. The respondents answered to double cropping of rice account for less than 20% in who has rice production. It is assumed to be available to take water through year, even a little water (Laleia). Buy and sell on rice is observed at survey. According to survey, persons who buy rice are in all of scheme, in other words, shortage of rice is assumed to relatively be in Baucau. The main way to sell of rice are used to bring to market by own and sell at own house. Way of using trader is low ratio. As for the women's activity, according to survey, participation on seeding and harvesting is observed. In a part of area, women conduct to cultivate land. The women member of WG who has right of decision are

		like operation of gate and maintenance, cleaning and rehabilitation of canal. More than 90% of WG conduct cleaning canal.	answered to 30% of respondents.
Bobonaro	Bobonaro is located at west in edge of Timor-Leste which is contiguous to Indonesia. Landscape is mountainous, the tableland, however, is observed around Maliana city at center of district. These area is observed to aggressive rice production. Nunura river which is international river bordered with Indonesia, is involved in the Indonesian scheme. This scheme is opposite side against Maliana II scheme The construction of irrigation facility plan and implementation is projected by MAF (Maliana II). And JICA supported to Maliana I rehabilitation project.	Identified irrigation schemes are 29. About 70% of schemes takes water from river and about 30% from lake or pond. Bobonaro is second number of irrigation schemes in 13 districts. Average of area per one scheme is relatively large. One of irrigation scheme is more than 1,000ha. Nunura river though Maliana area is observed water even in dry season, hence some irrigation scheme make crop of rice in mainly dry season. (Halecou irrigation scheme) The most common classification of area is 0~50ha and 100~250ha, which account for 60% in total. Almost irrigation schemes scatter along river side and mountainous schemes are identified which has paddies on slope. 70% of schemes is installed gate at intake, which is shown that level of irrigation facility seem to be relatively advanced. The issue of obstruction of water delivery and damaged structure is majority, which, in detail, is assumed to be sedimentation and flash out intake. Especially, the gate is simply installed to beginning of traditional intake, which is easy to affect by flood. As for the problem of weir, intake and canal, the respondents who indicate high maintenance cost, is existence, which means that these people show the conscious of maintenance cost as issue. In addition, as for lake and pond are indicated to diminishing function and difficulty of water keep by low function. Water-tightness and protection of leakage water is necessary measures . As for the situation of organization of famer, respondents answered existence of WUA is 20% in this survey and 60% of WUA is collected water fee of membership fee. These area has probably advanced organization in nationwide. Especially, the ratio of performance on gate maintenance and canal rehabilitation show about 50% which is high trend in nationwide. In other words,	The high ration of agricultural production are rice and maize. The vegetable like potato and beams account for less than 20% except for cassava. In general, cropping of vegetable is observed at which is available taking water through year, even a little water. In Maliana area is available to take water from river in dry season, which assume to be used to cropping vegetable The respondents answered to double cropping of rice account for about 60% in who has rice production. This trend is higher than other districts and it assume large agricultural production. As for the transaction of rice, ration of sell: 40% is more than 1.5 times as much as ratio of buy: 60%. Bobonaro is the largest agricultural production in 13 districts. The main way to sell of rice are used to bring to market by own and sell at own house. Way of using trader is low ratio. Ratio of insecticide and weedicide shows high ration in the nationwide, despite less of using fertilizer. As for the women's activity, according to survey, participation on seeding and harvesting is observed. In a part of area, women conduct to cultivate land. The women member of WG who has right of decision are answered to 10% of respondents.

		these farmers assume to have high conscious on corporative maintenance works for facility.	
Cova Lima	Cova Lima is located at west in edge of Timor-Leste which is contiguous to Indonesia as well as Bobonaro. Level is gradually low toward south from north area, plane area is observed near the sea which is wide to east and west. The construction of irrigation facility plan and implementation is projected by MAF (Oebaba, Culuan / Lomea II).	Identified irrigation schemes are 19. About 70% of schemes takes water from river and about 30% from lake or pond. Cova Lima is sixth number of irrigation schemes in 13 districts. One of irrigation scheme is almost 1,000ha. Cova Lima is not so much number of irrigation schemes. In other survey, some irrigation area has water source by spring which are observed at low land area. In general, irrigation scheme which use spring is observed in mountainous area, but in Cova Lima is observed in low land area. This is different point between other district. The reason on above does not clear that it owe to spring water source, but these schemes answered less of flood affect. (60% answer of nothing of flood affect and/or no answer) Amount of water is assumed to be not enough to supply to irrigation area, hence, all of schemes answered shortage water in every year. The issue of obstruction of water and damaged structure is majority, which, in detail, is assumed to be sedimentation and flash out intake. Especially, the gate is simply installed to beginning of traditional intake, which is easy to affect by flood. As for lake and pond are indicated to diminishing function and difficulty of water keep by low function. Water-tightness and protection of leakage water is necessary measures . As for the situation of organization of famer, respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, is in all of scheme. Activities of WG are concentrated to cleaning canal. According to this survey, the collected regular water fee is not conducted. However, when the facility has damage, the materials and expense for works assumed to be collected on the spot. Therefore, periodical activity is almost concentrated on canal cleaning, but the urgent rehabilitation works is	The high ration of agricultural production are rice and maize. In rough observation, trend of cropping is same as Ainaro. In other survey, irrigation by tube well and spring at low land area are observed which is used to vegetable such as cash crop. In other words, although main crop is rice and maize, various vegetable assume cropping with main crops. The respondents answered to double cropping of rice account for less than 20% in who has rice production. This is almost same trend as Ainaro. Persons who makes both of buy and sell accounts for about 70% which means that relying sell rice as the opportunity of obtaining money assume high trend. As for selling, 30% of respondents show through trader which is high trend in nationwide Respondents who use fertilizer, insecticide and weedicide are not shown on survey. To proper use of these will be expected to contribute to expansion of rice production. As for the women's activity, according to survey, participation on seeding and harvesting is observed. Basically, farmers activity conduct with cooperation between men and women. The women member of WG who has right of decision are not in the member.

		conducted on the spot.	
Dili	Dili is capital city in Timor-Leste. An urban area is observed at small area along the sea coast. Large scale agricultural production is not observed.	Identified irrigation schemes are 2 which are installed intake, but these facility is almost expired. Hence these scheme is used to rain. The most common classification of area is 10~50ha. These show small irrigation scheme. Small rice production is observed. Main crop assume vegetable which do not need much water.	Agricultural production are rice and maize. In addition, vegetable like potato and beans as well as above. The various product assume cropping.
Ermera	Ermera surround mountain, half of area is more than 1,000m above sea level. It is famous of coffee. ゐ。	Identified irrigation schemes are 14. Schemes of all takes water from river. As for the arrangement level of irrigation facility, 12 schemes are concrete and wet masonry type on intake. In other words, level of irrigation facility seem to be relatively advanced The damage and obstruction of water delivery on facility, however, are observed by sand and stone in flood time which is caused by steep river bed in mountainous area. These problem is answered more than 60% of respondents. These trend of respondents is almost same as Aileu. As for the situation of organization of famer, respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, is in all of scheme. Activities of WG are mainly operation of gate and cleaning of canal. Gate maintenance and canal rehabilitation is excluded from activity. This is different point with Aileu.	The high ration of agricultural production are rice and maize. In addition, vegetable like potato and beans as well as above. In general, cropping of vegetable is observed at which is available taking water through year, even a little water. Mountainous area is available to take water even dry season because of include origin of water source The respondents answered to double cropping of rice account for almost 30% in who has rice production. This is relatively high trend in nationwide. It is assumed to be available to take water through year, even a little water. Buy and sell on rice is observed on survey. Ratio of buy is higher than sell, in other words, shortage of rice is assumed to relatively be in Ermera. Ratio of fertilizer and insecticide show high ration in the nationwide. Famers assume to have high knowledge on agricultural technology relatively. As for the women's activity, according to survey, participation on all of farming activity is observed.
Lautém	Lautém is edge of east in Timor-Leste, three way, north, east and west side are surrounded by sea. Land scape is likely to tableland and above sea level is from 100 ~ 600 m. At east side of district, the largest lake, Iralalora is observed. At west side, almost irrigation scheme is observed because of river concentrative existence. The construction of irrigation facility plan and implementation is projected by MAF (Larisula, Venosi).	Identified irrigation schemes are 47. About 80% of schemes takes water from river and about 20% from lake or pond. Lautém has relatively many irrigation schemes in 13 districts. Almost type of intake show traditional type. In other words, irrigation facility is not advanced relatively. Majority of issue is in canal problem. As for the situation of organization of famer, the ratio of organization is extremely low. In other survey, these community is likely blood relationship which consist of family. Hence these might be identified as	The high ration of agricultural production are rice and maize. According to survey, vegetable like potato and beans is not so much. At almost irrigation schemes, rice production assumed to have been remained at self-consumption. Agricultural income is third in order low income. ifarmers The respondents answered to double cropping of rice account for 6% in who has rice production. It is assumed to be available to take water through year, even

		different organization. It might be not cleared in this context, according to survey, many farmers request establish of and /or instruction of way of organization like WUA or WG	a little water. Ratio of fertilizer and insecticide shows low ration in the nationwide which account for 5%. Organization activity is not observed aggressively. In other words, agricultural activity might be extensive situation.
Liquiçà	Liquiçà is located at noth-west in Timor-Leste. Landscape is wide to east and west along sea coast. The edge of mountain is near sea coast, therefore plane area is totally small. The river is from Bobonato district which has catchment area there.	Identified irrigation schemes are 7. All of schemes takes water from river. The most common classification of area is 100~250ha. These irrigation schemes consist of large schemes relatively. 70% of schemes have problem, Some schemes along river have been expired by food affect, which sand or stone covered the paddy area. These river of branch at upstream in Bobonaro gather to at downstream in Liquiçà. Hence, raised flood accompany huge water volume. As for problem of weir, intake and canal, respondents in this district answered for the problem of high maintenance cost on facility, which means that these people show the conscious of maintenance cost as issue. Situation of organization of famer, respondents answered existence of WUA is not in this survey. Respondents answered existence of WG, however, is in scheme.	Main agricultural production are rice and maize.. The respondents answered to double cropping of rice is not in survey. It is assumed to be available to take water through year, even a little water. Buy and sell on rice is not observed in survey. Agricultural income show middle class in nationwide. According to survey, agricultural activity is not aggressive probably. Since Liquiçà is contiguous to sea, fish works or salt paddy might be aggressive rather than agriculture. As for the women's activity, according to survey, participation on all of farming activity is observed.
Manatuto	Manatuto is located at center of Timor-Leste, which is wide to north and east. Laclo river flow in district which is the largest catchment area in nationwide. JICA supported rehabilitation project in 1990s and technical assistance project in Laclo under implementation.	Identified irrigation schemes area 54. About 70% of schemes takes water from river and about 30% from lake or pond. The most common classification of area is 0~50ha. One of irrigation schemes is more than 500ha. Number of schemes is relatively many in nationwide. As for problem of weir, intake and canal, respondents in this district answered for the problem of high maintenance cost on facility, which means that these people show the conscious of maintenance cost as issue. Especially, Laclo irrigation scheme suffer from removing sedimentation in canal. Trend of water shortage and raising flood is less of occurrence in nationwide. Situation of organization of famer, respondents answered existence of WUA is in this survey, which	Main agricultural production are rice, and various product such as maize, beams and potato assumes cropping. Persons who makes both of buy and sell accounts for about 10%. Buy and sell on rice is observed on survey. Ratio of buy is higher than that of sell, which show trend of rice shortage relatively in district. As for selling, respondents answer through trader which is high trend in nationwide, Market is assumed to be a certain extent. As for the women's activity, according to survey, participation on seeding and harvesting is observed mainly.

		account for 7% and farmers pay water fee or membership fee.	
Manufahi	Manufahi is located at south area in Timor-Leste and contiguous sea. At north area is observed mountain which is more than 1,000m, and land level is gradually low toward south, plane area is observed near the sea. Construction of irrigation facility plan and implementation is projected by MAF. (Sahen, Caraulun).	Identified irrigation schemes are 11. About 60% of schemes takes water from river and about 40% from lake or pond. Baucau is the best number of irrigation schemes in 13 districts as well as areas. The most common classification of area is 10~50ha and 100~250ha. Almost irrigation schemes scatter along river side and mountainous schemes are identified which has paddies on slope. A part of scheme is more than 750ha. Manufahi has relatively large number of schemes. The problem of irrigation facility comes down to canal facility. The sedimentation and obstruction of water delivery is majority. As for the situation of organization of famer, respondents answered existence of WUA is 40% in this survey, but nothing of membership or water fee in surveyed WUA. Respondents might misunderstand about definition of WUA. In other survey, WUA had been established at once, it was dismissed due to un-delivery water to paddy area.	The high ration of agricultural production are rice and maize. In survey, respondents does not cultivate double cropping of rice. According to survey, vegetable is assumed to be small product. Buy and sell of rice are observed. According to survey, all of respondents answer buying rice, which show shortage of rice. In addition, respondents who is both of buy and sell is 90% which is high ratio. In other words, relying sell rice as the opportunity of obtaining money assume high trend. Manufahi is forth income by agricultural product in nationwide, but an expense to buy rice is assumed to be in conformity with transaction. In other words, balance of in and out is not so much as surveyed income. The main way to sell of rice are used to bring to market by own which is the most common way, 80%. Trader is 20% which is relatively high ratio in nationwide. Respondents who use fertilizer, insecticide and weedicide are not shown on survey. To proper use of these will be expected to contribute to expansion of rice production. As for the women's activity, according to survey, participation on seeding and harvesting is observed. Basically, farmers activity conduct with cooperation between men and women. The women member of WG who has right of decision are not in the member.
Viqueque	Viqueque is located at south east which is almost same size as Baucau. The plane area is spread at south. Rice is main crop. The construction of irrigation facility plan and implementation is projected by MAF (Haslaran, Saketo, Bebui, Baidubu).	Identified irrigation schemes are 40. About 90% of schemes takes water from river and about 10% from lake or pond. Viqueque is relatively large number of irrigation schemes in nationwide. The most common classification of area is 250~500ha. A part of scheme is more than 1,000ha. Viqueque has relatively large area of schemes. The problem of irrigation facility comes down to canal facility. The sedimentation and obstruction of	Main agricultural production is rice. In survey, respondents who cultivate double cropping of rice is about 20%. According to survey, ratio of double cropping of rice is relatively high compared with other district at south side. Buy and sell of rice are observed. According to survey, all of respondents answer buying rice, which show shortage of rice. In addition, respondents who is both of buy and sell is almost reepondents. In other words, relying sell rice as the opportunity of obtaining money assume high trend.

		water delivery is majority. Respondents who answer shortage of water is second in 13 districts, but who answer raising every year is low and who answer raising one-times in 5 years is majority. As for the situation of organization of famer, respondents answered existence of WUA is 10% in this survey, but nothing of membership or water fee is in surveyed WUA. Respondents might misunderstand about definition of WUA. In other survey, WUA had been established at once, it was dismissed due to un-delivery water to paddy area. One of WG perform gate maintenance, but expense of it comes from MAF.	Viqueque is third income by agricultural product in nationwide, but an expense to buy rice is assumed to be in conformity with transaction. In other words, balance of in and out is not so much as surveyed income. This trrend is same as Manufafi which is beside of Viqueque. Respondents who use fertilizer, insecticide and weedicide are not shown on survey. To proper use of these will be expected to contribute to expansion of rice production. As for the women's activity, according to survey, participation on seeding and harvesting is observed. Basically, farmers activity conduct with cooperation between men and women. The women member of WG who has right of decision are not in the member.
Oecusse	Oecusse is located at away from main area of Timor-Leste. It is detached land in Indonesia. Approaching make available from Dili through liner port. But in case of using vehicle through inland, VISA is needed emigration and immigration in Indonesia at one way. Landscape is almost mountainous, but from middle to edge of Tono river which is observed an alluvial fan, agricultural activity is mainly observed as well as urban area come down to around there. The construction of irrigation facility plan a is projected by MAF (Tono). Oecusse become autonomous region in 2014 when reorganization is conducted. In addition, operation and management is excepted from MAF	Identified irrigation schemes are 26. About 30% of schemes takes water from river and about 70% from lake or pond. Inhere, lake and pond indicate spring where it is near river, is sourced by underground water. Way of intake which indirectly take water from river is large number compared with other district. In addition, respondents answer the lowest number of water shortage in nationwide. In other words, irrigation water is relatively stable. The most common classification of irrigation area is 10~50ha. As a whole, district is consisted of small scheme. The problem of irrigation facility comes down to canal facility. The sedimentation and obstruction of water delivery is majority. As for the problem of facility, many number of problem on lake and pond is observed, in other words, Utility of these facility is assumed to be high. As for the situation of organization of famer, respondents answered existence of WUA is about 40% in this survey, but nothing of membership or water fee is in surveyed WUA. Although respondents might misunderstand about definition of WUA, rehabilitation works of canal is conducted with high ration in nationwide. Concern about maintenance works and cooperative works is assumed to be high.	Main agricultural production is rice. In survey, respondents who cultivate double cropping of rice is about 50% which is relatively high ratio in nationwide. It might be caused by relatively stable irrigation water Buy and sell of rice are observed. In survey, respondents in Oecusse and Bobonaro only show the trend which is higher ratio of selling than buying. In addition, Ratio of fertilizer, insecticide and weedicide show high ration in the nationwide. Famers assume to have high knowledge on agricultural technology relatively. In survey Oecusse show the lowest profitability of agriculture in nationwide against the highest Bobonaro. It might be caused by Indonesian border, which prevent from conducting transaction. As for the women's activity, according to survey, participation on all of agricultural works is observed. In a part of area, women conduct to cultivate land. The women member of WG who has right of decision are answered to 90% of respondents.

2-4 SUMMERY TABLE OF INVENTORY SURVEY

Name of district		Aileu	Ainaro	Baucau	Bobonaro	Cova Lima	Dili	Ermera	Lautém	Liquiçà	Manatuto	Manufahi	Viqueque	Oecusse	Total
1. Basic information of irrigation scheme															
	# of irrigation scheme	9	15	152	29	19	2	14	47	7	54	11	40	26	425
	Present irrigated area (ha)	267	1,148	9,027	4,893	2,682	48	1,185	2,862	686	4,475	1,532	4,396	1,158	34,359
	Ratio of ~10ha	0%	0%	7%	3%	0%	0%	7%	15%	0%	11%	0%	8%	27%	
	Ratio of 10~50ha	78%	47%	30%	38%	16%	100%	64%	53%	14%	39%	36%	15%	42%	
	Ratio of 50~100ha	22%	13%	10%	14%	26%	0%	0%	9%	14%	19%	18%	30%	12%	
	Ratio of 100~250ha	0%	13%	28%	24%	26%	0%	14%	19%	71%	19%	36%	10%	19%	
	Ratio of 250~500ha	0%	27%	20%	10%	0%	0%	14%	2%	0%	9%	0%	30%	0%	
	Ratio of 500~750ha	0%	0%	5%	0%	5%	0%	0%	0%	0%	4%	0%	0%	0%	
	Ratio of 750~1000ha	0%	0%	0%	3%	26%	0%	0%	2%	0%	0%	9%	0%	0%	
	Ratio of 1000ha~	0%	0%	1%	7%	0%	0%	0%	0%	0%	0%	0%	8%	0%	
		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
	Number of ~10ha	0	0	10	1	0	0	1	7	0	6	0	3	7	35
	Number of 10~50ha	7	7	45	11	3	2	9	25	1	21	4	6	11	152
	Number of 50~100ha	2	2	15	4	5	0	0	4	1	10	2	12	3	60
	Number of 100~250ha	0	2	43	7	5	0	2	9	5	10	4	4	5	96
	Number of 250~500ha	0	4	31	3	0	0	2	1	0	5	0	12	0	58
	Number of 500~750ha	0	0	7	0	1	0	0	0	0	2	0	0	0	10
	Number of 750~1000ha	0	0	0	1	5	0	0	1	0	0	1	0	0	8
	Number of 1000ha~	0	0	1	2	0	0	0	0	0	0	0	3	0	6
		9	15	152	29	19	2	14	47	7	54	11	40	26	425
	Potential irrigated area (ha)	377	5,199	17,359	6,884	4,647	125	1,167	2,743	916	6,093	8,332	8,173	4,487	66,501
	Ave. present irrigated area per 1 scheme	29.7	95.7	105.0	203.9	178.8	24.0	91.2	71.6	114.3	101.7	153.2	157.0	46.3	
	Planed irrigated area (ha)	377	5,199	17,359	6,884	4,647	125	1,167	2,743	916	6,093	8,332	8,173	4,487	66,501
	Ave. planed irrigated area per 1 scheme	41.9	346.6	114.2	237.4	244.6	62.5	89.8	58.4	152.7	112.8	757.5	204.3	172.6	
	# of household	474	3,970	13,435	3,996	6,675	70	1,543	2,373	1,507	4,824	5,997	17,420	1,890	64,174
	Ave. # of household	53	265	89	138	351	35	110	50	215	89	545	436	73	
Variety of irrigation structure															
	# of structure	17	20	348	61	30	4	26	67	11	120	20	66	54	844
	Weir	1	0	3	2	1	0	0	1	0	0	1	6	1	16
	Intake	7	5	152	22	5	2	12	11	4	50	4	15	10	299
	Canal	9	15	157	29	19	2	14	47	7	54	11	40	26	430
	Pump	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
	Pond / lake	0	0	36	8	5	0	0	8	0	16	4	5	17	99
Constructed yr.															
	Unkown or Before 1970s	22%	27%	87%	41%	47%	0%	86%	96%	86%	91%	27%	43%	35%	
	1970s	0%	0%	1%	3%	0%	50%	0%	2%	0%	6%	0%	0%	27%	
	1980s	22%	0%	0%	3%	5%	0%	14%	2%	14%	0%	0%	3%	23%	
	1990s	22%	0%	3%	14%	16%	0%	0%	0%	0%	2%	9%	13%	8%	
	2000s	22%	0%	5%	31%	16%	50%	0%	0%	0%	2%	18%	20%	8%	
	2010s	11%	73%	4%	7%	16%	0%	0%	0%	0%	0%	45%	23%	0%	
Rehabilitated yr.															
	Unkown or Before 1970s	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	1970s	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	1980s	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	
	1990s	0%	0%	1%	0%	0%	0%	0%	0%	0%	9%	0%	0%	4%	
	2000s	11%	0%	5%	17%	0%	50%	7%	6%	0%	9%	0%	0%	27%	
	2010s	67%	7%	7%	14%	0%	0%	21%	0%	29%	24%	27%	10%	15%	
Weir and Intake	Ave. Height(m)	1.84		1.37	1.84	1.65	4.50	0.88	3.03	1.20	1.14	1.16	1.69	1.75	
	Ave.Span #	1.20		0.79	1.33	1.00	1.00	1.00	1.00	1.00	1.26	1.00	1.00	1.00	
	Ave.Width / 1 span	1.37		1.30	1.53	1.44	2.50	1.75	2.25	1.40	2.39	1.40	3.84	2.90	
	Ave.Gate #	1.20		0.14	1.21	1.00	2.00	0.43	1.00	0.00	1.13	1.00	1.63	2.00	
Canal	Ave. length of canal (m)	365	1,163	900	1,285	1,943	950	908	832	807	2,597	1,308	1,727	598	
	Ave. Width of canal (m)	1.01	0.84	1.08	1.05	1.69	0.95	1.11	1.57	1.72	1.58	1.14	1.02	1.08	
	Ave. Width of Height (m)	0.64	0.73	0.76	1.51	1.10	0.8	0.67	1.03	0.88	0.92	0.71	0.90	1.28	
Pond / Lake	Ave. Diameter (m)			8.62	6.71	8.00			2.50		200.00	30.00	60	70.00	
	Ave. Depth (m)			1.68	1.21	1.00			0.80		4.3	1.60	15	1.00	
2. Problem of structure															
Weir and Intake	# of irri. scheme which answered existing problem	7	5	103	22	8	2	11	14	5	34	3	14	17	245
Variety of problem	# of respondents who answered existing problem	22	4	185	39	25	4	26	23	16	85	6	25	39	499
	Damage of structure	23%	25%	33%	15%	32%	0%	27%	43%	19%	35%	50%	48%	36%	
	Deterioration (weaken function)	18%	50%	16%	5%	32%	25%	12%	39%	25%	18%	17%	20%	18%	
	Un-operation gate	14%	0%	3%	3%	0%	25%	12%	4%	19%	6%	0%	0%	8%	
	Difficulty of keeping water level	18%	0%	5%	28%	8%	25%	23%	4%	13%	2%	0%	8%	5%	
	Obstruction of water delivery	14%	25%	40%	46%	28%	25%	27%	9%	13%	31%	33%	24%	28%	
	High maintenance cost	14%	0%	3%	3%	0%	0%	0%	0%	13%	8%	0%	0%	5%	
	Maintenance cost in year, if any	150,000		250,000	50,000						55,000			500	
Canal	# of irri. scheme which answered existing problem	8	13	130	20	13	2	9	41	5	26	10	36	11	324
Variety of problem	# of respondents who answered existing problem	17	35	225	27	29	8	21	113	14	75	27	87	24	702
	Damage of structure	0%	29%	32%	7%	24%	25%	29%	34%	29%	29%	37%	37%	33%	
	Deterioration (weaken function)	24%	17%	20%	11%	45%	25%	19%	35%	29%	25%	33%	22%	33%	
	Un-control of gate	12%	0%	0%	7%	0%	0%	14%	2%	7%	4%	0%	0%	0%	
	Difficulty of keeping water level	35%	14%	4%	11%	0%	25%	24%	14%	7%	7%	0%	6%	4%	
	Obstruction of water delivery	29%	40%	43%	59%	31%	25%	14%	14%	29%	28%	30%	36%	25%	
	High maintenance cost	0%	0%	1%	4%	0%	0%	0%	1%	0%	7%	0%	0%	4%	
Pump		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Pond / lake	# of irri. scheme which answered existing problem	0	0	15	6	1	0	0	2	0	1	0	2	3	30
Variety of problem	# of respondents who answered existing problem	0	0	13	6	1	0	0	2	0	1	0	2	10	35
	Damage of structure			31%	17%	0%			50%		0%		0%	30%	
	Deterioration (weaken function)			15%	0%	100%			0%		0%		100%	30%	
	Un-operation gate			0%	0%	0%			0%		0%		0%	30%	
	Difficulty of keeping water volume			54%	83%	0%			50%		100%		0%	10%	
	High maintenance cost														
3. Problem of irrigation scheme															
	# of respondents who answered shortage of water	8	12	133	21	19	2	12	38	5	33	11	38	15	347
	Frequency of occurrence: every yr.	78%	20%	70%	66%	100%	100%	86%	79%	71%	57%	100%	43%	46%	
	Frequency of occurrence : a few in 5 yrs	0%	73%	6%	0%	0%	0%	0%	0%	0%	0%	0%	50%	8%	
	Frequency of occurrence : a few in 10 yrs	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	# of respondents who answered flood influence	8	12	101	21	7	2	10	33	3	38	8	26	14	283
	Frequency of occurrence: every yr.	67%	7%	55%	72%	26%	100%	71%	64%	43%	52%	27%	28%	54%	
	Frequency of occurrence : a few in 5 yrs	11%	73%	6%	0%	11%	0%	0%	4%	0%	0%	45%	38%	0%	
	Frequency of occurrence : a few in 10 yrs	0%	0%	0%	0%	0%	0%	0%	2%	0%	2%	0%	0%	0%	
	# of respondents who answered shortage of workers	6	0	6	0	0	0	0	0	1	5	0	0	1	19

Name of district		Aileu	Ainaro	Baucau	Bobonaro	Cova Lima	Dili	Ermera	Lautém	Liquiçà	Manatuto	Manufahi	Viqueque	Oecusse	Total
4.WUA (Water Users Association) and Traditional water group (Tr.WG)															
# of respondents who answered WUA or Tr.WG exist		9	15	143	26	19	1	14	6	5	28	11	40	26	343
(Ratio of existence in scheme)		100%	100%	94%	90%	100%	50%	100%	13%	71%	52%	100%	100%	100%	
Variety of group	WUA	0%	0%	0%	23%	0%	0%	0%	0%	0%	4%	36%	13%	42%	
	Traditional. WG	100%	100%	100%	77%	100%	100%	100%	100%	100%	96%	64%	88%	58%	
	Others	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
# of group	1 group	44%	0%	77%	50%	0%	0%	14%	50%	40%	14%	9%	18%	27%	
	2~3 groups	33%	0%	13%	38%	0%	100%	50%	0%	0%	4%	0%	8%	50%	
	4~5 groups	0%	0%	3%	8%	0%	0%	29%	0%	0%	0%	0%	0%	4%	
	6~7 groups	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	
	8~10 groups	0%	0%	0%	0%	0%	0%	0%	0%	60%	0%	0%	0%	12%	
	>10 groups	11%	0%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
# of respondents who answered membership or water fee exist		9	0	1	17	0	2	0	0	5	19	1	0	0	54
Way of pay the fee	Membership fee by US$ (# of group)	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
	Ave : US$/ha				10.0						5.0				
	Water fee by US$ (# of group)	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Ave:US$/ha				1.1										
	Membership fee by rice (# of group)	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	
	Ave:kg/ha				50.0										
	Water fee by rice (# of group)	0.0	0.0	1.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Ave:kg/ha			20.0	29.0										
# of Group which change membership or water fee		0	0	1	6	0	0	0	0	0	1	0	6	0	14
Times of meeting in yr.	Ave	5.4		1.3	1.0		1.0	2.1	1.0	1.0		2.0	2.2	2.0	
	0 times / no answer	44%	100%	2%	4%	100%	0%	0%	50%	0%	100%	91%	68%	0%	
	1 times	33%	0%	92%	92%	0%	100%	36%	50%	100%	0%	0%	0%	58%	
	2 times	0%	0%	3%	4%	0%	0%	50%	0%	0%	0%	9%	25%	12%	
	3 times	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	12%	
	>3 times	22%	0%	2%	0%	0%	0%	14%	0%	0%	0%	0%	0%	19%	
Activity of group	Operation of gate	56%	0%	5%	42%	0%	100%	21%	0%	20%	7%	0%	20%	35%	
	Maintenance of gate	56%	0%	5%	46%	0%	0%	0%	0%	0%	4%	0%	5%	8%	
	Canal cleaning	100%	100%	94%	96%	100%	100%	100%	100%	100%	100%	100%	100%	96%	
	Rehabilitation of canal	67%	0%	6%	8%	0%	0%	0%	0%	20%	7%	0%	0%	69%	
	Operation of pump	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Maintenance of pump	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Others	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
The reason for un-establishment of WUA or Tr.WG															
	No answer or unknown		No answer	No answer		No answer		No answer				No answer	No answer	No answer	
	The reason for un-establishment														
	Some obstruction for establishment	0	0	0	1	0	0	0	42	0	22	0	0	0	65
	Under establishment	0	0	0	1	0	0	0	0	0	2	0	0	0	3
	No need to establish	1	0	0	1	0	0	0	0	1	4	0	0	0	7
	Already expired	0	0	0	0	0	1	0	0	1	1	0	0	0	3
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Crop (Respondents who is extension stuff or representative of Group)															
Average income per one farmer by all of crop production : $/yr		493	1,103	864	1,125	810	375	618	416	850	560	873	1,076	296	9,459
kind of the agricultural productions	Rice	100%	100%	87%	97%	100%	50%	93%	72%	57%	81%	100%	100%	92%	
	Maize	100%	27%	20%	76%	11%	50%	71%	2%	43%	37%	64%	0%	4%	
	Beans	56%	0%	10%	17%	0%	50%	29%	2%	0%	22%	18%	0%	4%	
	Cassava	67%	0%	9%	38%	0%	50%	21%	2%	0%	41%	0%	0%	0%	
	Potato/Sweet Potato	78%	0%	11%	10%	0%	50%	21%	0%	0%	37%	0%	0%	0%	
	Other														
Rice (by interview)															
	Conduction of double cropping	67%	7%	17%	61%	16%	—	31%	6%	0%	9%	0%	20%	46%	
	cultivated paddy area : Dry season(ha)	54.00	20.00	573.00	1498.00	340.00	—	143.00	10.00	0.00	204.00	0.00	1450.00	826.00	5,118
	cultivated paddy area : Rainy season(ha)	238.00	2305.00	9637.50	4919.00	1766.00	—	959.00	981.50	29.00	3699.00	989.00	4385.00	2329.00	32,237
	Harvest: Dry season(kg)	8,950	500	24,070	37,600	66,880	—	6,510	500	0	0	0	35,660	12,630	193,300
	Hervest: Rainy season (kg)	22,550	348,470	681,890	87,400	349,250	—	16,565	18,860	700	1,440	246,000	121,370	30,860	1,925,355
The reason for not double cropping															
	Water shortage	3	10	83	7	15	0	7	24	3	18	7	27	12	216
	Shortage of workers	0	0	29	0	0	0	1	4	0	1	0	0	0	35
	No need double cropping	0	0	8	1	0	0	0	0	0	1	0	0	2	12
	Shortage of buffalo	0	0	26	0	0	0	0	2	0	3	0	0	0	31
	Other reason	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	# of area which is milling machine	1	8	111	16	16	1	4	4	0	1	7	32	5	206
The respondents who has purchased the rice (by interview)		4	15	73	11	19	0	9	3	0	41	11	40	11	237
	Price of rice by purchase (US$/kg)			0.5	0.5										
	Volume of rice by purchase (kg)														
The respondents who has sold the rice (by interview)		3	12	33	19	14	0	5	1	0	8	10	39	15	159
	Bring to market by own	33%	100%	46%	53%	71%		33%	0%		23%	80%	95%	76%	
	sell price : $/kg	1.25	0.35	0.5	0.45	0.35						0.35	0.36	0.57	
	By trader	33%	0%	10%	8%	29%		0%	0%		54%	20%	2%	12%	
	sell price : $/kg	1.25			0.5	0.36					1.92	0.35	0.35		
	Sell at own house	33%	0%	44%	39%	0%		67%	100%		23%	0%	2%	12%	
	sell price : $/kg	1.25		0.5	0.31						5		0.25	0.5	
Maize (by interview)															
	ha (Ave)	4.67	5.67	10.74	47.10	1.00		19.63	2.50	7.00	0.37	1.00		2.00	
	kg/yr (Ave)	98	1,072	1,794	2,090	200		1,831	75			1,575			
Use of fertilizer (by interview)															
	The respondents who answered "yes"	6	0	13	3	0	0	1	2	0	7	0	0	24	56
How to get	By own	2	0	13	3	0	0	1	2	0	1	0	0	21	43
	By MAF	5	0	11	1	0	0	0	0	0	7	0	0	3	27
	By others (NGO etc)	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Use of Insecticide (by interview)															
	The respondents who answered "yes"	6	0	49	19	0	0	7	1	2	20	0	0	25	129
How to get	By own	4	0	41	19	0	0	2	1	0	1	0	0	22	90
	By MAF	4	0	42	10	0	0	5	1	2	20	0	0	0	84
	By others (NGO etc)	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Use of weedicide (by interview)															
	The respondents who answered "yes"	1	0	9	19	0	0	4	0	0	2	0	0	25	60
How to get	By own	1	0	9	19	0	0	2	0	0	2	0	0	22	55
	By MAF	1	0	7	9	0	0	3	0	0	0	0	0	0	20
	By others (NGO etc)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Social condition (Respondents who is extension stuff or representative of Group)															
Usage the irrigation water	Drinking water	22%	0%	29%	29%	0%	0%	14%	0%	0%	23%	0%	0%	35%	
	Washing clothes and take bath	89%	100%	68%	96%	100%	0%	100%	100%	71%	100%	100%	100%	100%	
	For livestocks	100%	100%	97%	100%	100%	100%	79%	89%	100%	96%	100%	84%	100%	
	Others	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Variety of Women's works	Works for livestocks	100%	0%	20%	82%	0%	100%	86%	91%	100%	0%	0%	0%	100%	
	Land preparation	100%	0%	16%	4%	0%	100%	93%	6%	86%	0%	0%	0%	100%	
	Planting	100%	100%	96%	96%	100%	100%	100%	94%	100%	100%	100%	100%	100%	
	Harvesting	100%	100%	100%	96%	100%	100%	100%	94%	100%	100%	100%	100%	100%	
	Others	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
The respondents who answered "yes" for famer's works sharing of women		9	15	137	28	19	1	14	32	7	45	11	38	26	
The respondents who answered "yes" for Participants of women for the meeting, who has right		9	0	49	14	0	1	13	3	4	4	0	2	23	122
The respondents who answered "yes" for Effect of Conflict (by interview)		0	0	0	0	0	0	0	0	0	0	0	0	0	0

2-5 REFERENCE NUMBER OF IRRIGATION SCHEME AND EVALUATION OF ALL OF IRRIGATION SCHEME

All of irrigation schemes are evaluated and classified by following criteria. These evaluations are abstracted as Long List and short list which show on Main Report. In addition, some feature which make characteristic irrigation schemes are shown on table.

- **Qualitative evaluation of existing irrigation functions**

Candidate of the priority project areas (irrigation schemes) are selected based on the qualitative evaluation. Following is the method how to evaluate the irrigation function. Basic data of existing 425 irrigation schemes collected through the inventory survey are used. According to the basic data collected, present situation of the irrigation facility of each irrigation scheme can be evaluated qualitatively by ranking to three levels of A, B and C. Making rank is led by setting the indicators and assessed them. Among the three levels, the rank- A is regarded as the lowest function's irrigation scheme. (1st step evaluation)

Candidate irrigation schemes are selected from both local commercial rice production area (rice bowl area) and subsistent farming area. Although topographic condition and size of irrigation area should be considered as a basic selection criteria, for this selection, size of irrigation area is focused. Hence the selected area as the rank A is further classified into two certain area size, over 100 ha and around 50 ha roughly. (2nd step evaluation)

In the 1st step evaluation, situation of each irrigation scheme is evaluated and classified by rating the indicators as the qualitative evaluation. Since this evaluation is made based on the inventory survey conducted through the interview survey and/or rough site observation, it should be ascertained whether the situation obtained from this qualitative evaluation is certain. To do so, it is required to judge the necessity of concrete measures through detail survey. Therefore the evaluation indicator and its rating score its rating method are made from the direction of detail survey, as shown in the following box.

1st step evaluation (making rank)
Rank A: Scheme which urgently needs to conduct detail survey in order to judge on whether the concrete measures should be taken. (100 pt to 70 pt)
Rank B: Scheme which needs to conduct detail survey in order to judge on whether the concrete measures should be taken. (below 70 pt to 50 pt)
Rank C: Scheme which needs to examine the necessity of detail survey with monitoring (below 50 pt)

2nd step evaluation
A100: Scheme which is classified as the rank A, and irrigation area size is 100 ha or up. **Candidate for commercial rice production area**
A50 : Scheme which is classified as the rank A, and irrigation area size is from 50 ha to 100 ha. **Candidate for subsistent farming area**

The indicator and rating method for the 1st step evaluation is shown in Page2-32~39 . Each indicator is designed from the questionnaire in the inventory survey to clarify the related problems with the irrigation facility.

According to the workshop held at the rice bowl area (local commercial rice production area), it is summarized that shortage of irrigation water is the highest priority issue to maintain paddy cultivation. Accordingly, rating for the indicator related with securing irrigation water is given to higher points than the other indicator.

Table 2-5-1 Indicators and Evaluation Method for Qualitative Evaluation in the 1st Step Evaluation

Indicator	Evaluation	Points	Remarks
1. Extreme water shortage and difficult to maintain intake water level	Irrigation water cannot be supplied completely or supplied insufficiently to irrigation command area.	40 pt	More than twice of minimum points, since intake workability is regarded as the most serious subject.
2. Intake and water flow prevented by Sedimentation	Intake from river and canal water flow are temporary obstructed by sedimentation	20 pt	Twice of minimum point is given, irrigation can be done depending on this condition.
3. Damage on structure (including malfunction of the facilities)	Structures are damaged and deteriorated. Gate is not operational. Reduce of intake water is observed.	20 pt	Ditto
4. Frequency of flood damage	By flooding, damaged in every year and land washing out of farmland often occurs.	10 pt	Minimum points: 10 pt
5. Size of area	This item is not for problem on facilities, but the rehabilitation or improvement of large scheme will give large impact. More than 100 ha and over should be targeted.	10 pt	Minimum points
Qualitative Evaluation	(Maximum acquired points)	100 pt	
	Rank A: Schemes which urgently need to conduct detail survey in order to judge on whether the concrete measures should be taken.	acquired points :100 pt to 70 pt	
	Rank B: Schemes which need to conduct detail survey in order to judge on whether the concrete measures should be taken.	acquired points: below 70 pt to 50 pt	
	Rank C: Schemes which need to conduct the examination for detail survey with monitoring	acquired points: below 50 pt	

Result of qualitative evaluation of each irrigation scheme based on the above method is shown in Table 2-5-2.

Table 2-5-2 Result of Qualitative Evaluation of Each Irrigation Scheme

District	Number of scheme	Evaluation					Irrigated area for each evaluation			
		Rank A	Rank B	Rank C	A100	A50	Rank A (ha)	Rank B (ha)	Rank C (ha)	Total (ha)
Aileu	9	5	3	1	0	1	156	81	30	267
Ainaro	15	5	1	9	4	0	416	388	344	1,148
Baucau	152	17	70	65	7	0	1,052	4,819	3,156	9,027
Bobonaro	29	10	9	10	5	1	2,888	466	1,539	4,893
Cova Lima	19	2	4	13	1	1	215	1,316	1,151	2,682
Dili	2	2	0	0	0	0	48	0	0	48
Ermera	14	6	4	4	2	0	281	549	355	1,185
Lautém	47	10	13	24	3	0	339	1,532	991	2,862
Liquiçà	7	2	2	3	1	0	184	341	161	686
Manatuto	54	7	24	23	2	2	402	2,614	1,459	4,475
Manufahi	11	0	7	4	0	0	0	1,368	164	1,532
Viqueque	40	7	16	17	4	1	1,571	1,472	1,353	4,396
Oecussi	26	1	3	22	0	0	37	60	1,061	1,158
total	**425**	**74**	**156**	**195**	**29**	**6**	**7,589**	**15,006**	**11,764**	**34,359**

The summery of above evaluation is shown on table below.

- Rank A accounted for 20 % of all schemes is conformity with 7,500 ha of irrigation area.

- There is certain difference of the urgency for detail survey between rank A and rank B. The number of both ranks is account for 54 % of all schemes and its irrigation area is conformity with 2,200 ha

which occupy 65 % of all scheme areas.

- As the overall trend, rank A is mainly observed in Baucau district. Baucau district has the largest irrigation area and number of irrigation schemes in the country. The number of the classified into the rank A is increased in proportion to the number of schemes. In Baucau, almost all irrigation schemes are classified to the "Traditional scheme", the number of 149 counted. These areas are assumed to suffer from difficult water distribution to service area and obstruction of taking water from river due to lowering river bed.

- Following the Baucau, Rank A in Bobonaro district is the second number, but the total area of irrigation schemes with around 3,000 ha is more that the Baucau. (Maliana II scheme of 1,700 ha is included in Bobonaro)

- Districts of Aileu and Ermera where located in mountainous area have high ratio of the rank A compared with over districts ratio of the rank A. However the order of total irrigation areas is 12th and 10th of 13 districts. Dili district is the smallest area and number of the irrigation schemes.

- Out of those districts Ainaro, Cova Lima, Manatuto, Manufahi, Viqueque where located in low-lying plane area in the southern country, districts of Ainaro, Cova Lima and Manufahi are implementing large scale irrigation rehabilitation projects planned by MAF. These projects are included in the rank A which surveyed in inventory survey. (referred to the Table 2-5-3)

- Rank A in Oequsse includes the MAF's irrigation projects as mentioned above. (referred to the Table 2-5-3)

- Ratio of the rank C in Oequsse is comparatively high. Reason is considered that water source of these schemes are supplied from not direct intake from river but spring, therefore, intake facility is comparatively functional and stable.

Table 2-5-3 Relation with Evaluated Irrigation Schemes and Implementing Projects by MAF

District	Reference No.*	Name of irrigation scheme	Progress
Ainaro	2-c-1S	Raibere	Under construction
Ainaro	2-c-5TR ,10TR	Oebaba	Under construction
Baucau	4-a-3S	Seiçal (a part of Watuwa/ Samalari)	Study (basic design)
Bobonaro	1-e-6S	Maliana II	Study (basic design)
Cova Lima	2-b-2TC	Culuam /Lomea II	Under construction
Viqueque	5-a-2TC ,3TC ,4TC	Bebui	Completion
Viqueque	5-a7S	Saketo	Study (basic design))
Lautém	6-a-10TR	Vensoi	Study (basic design)

Remarks: Reference No. shows the irrigation scheme number indicated in the inventory survey.

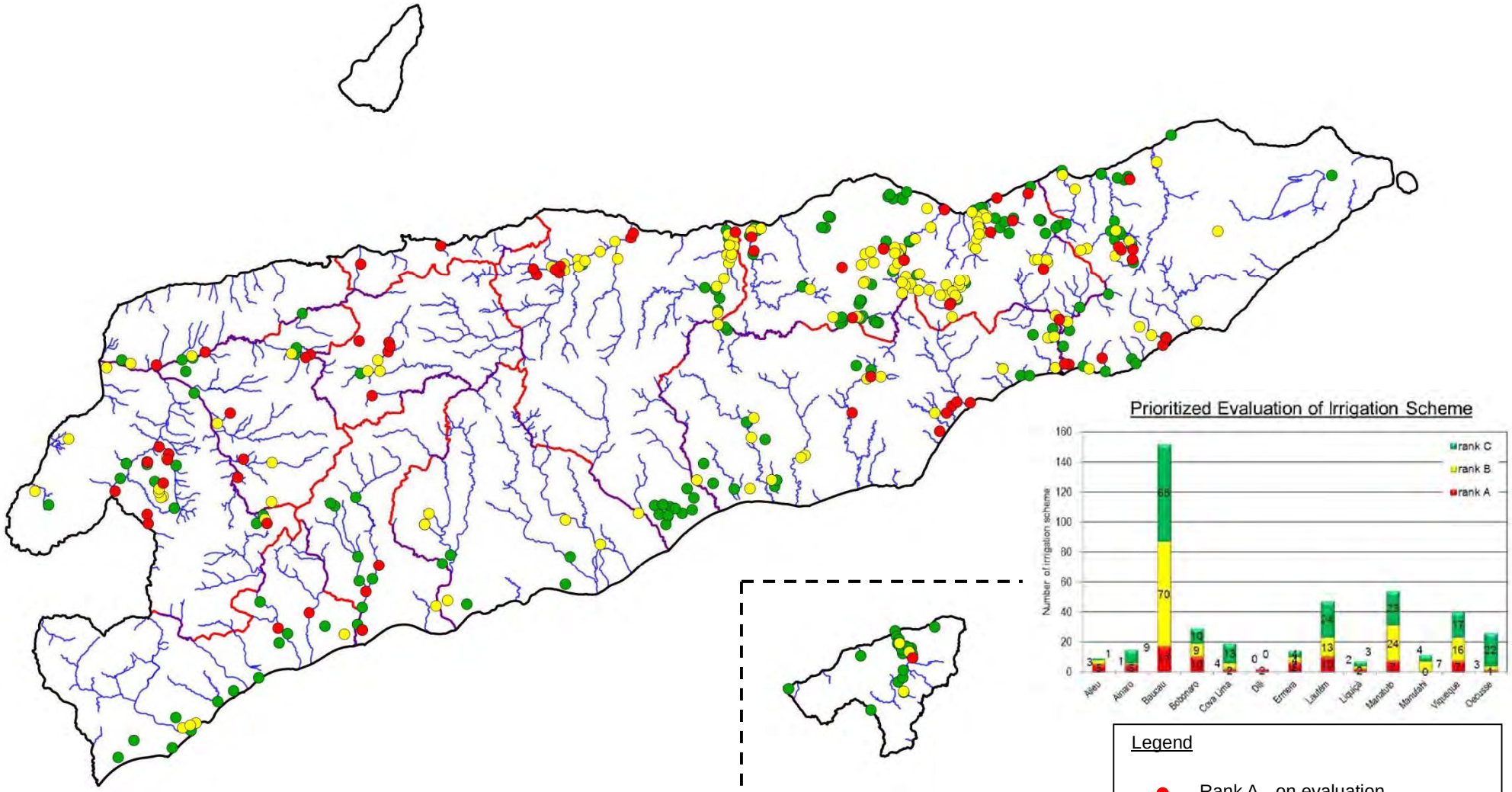


Fig 2-5-1 : Result of Qualitative Evaluation of Irrigation scheme in Timor-Leste

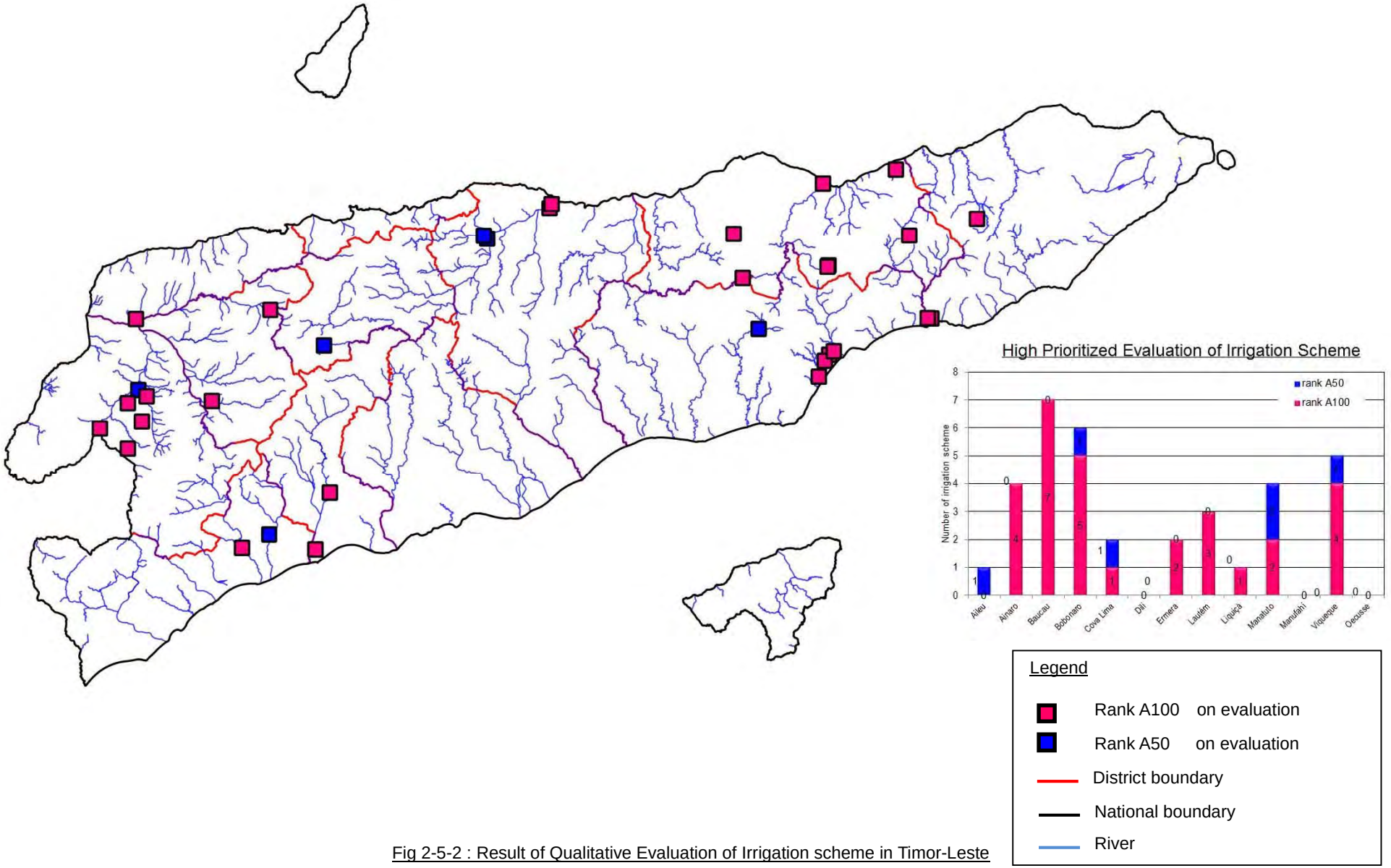


Fig 2-5-2 : Result of Qualitative Evaluation of Irrigation scheme in Timor-Leste

Entire List on Evaluation of Irrigation Scheme

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
Aileu	1-b-1TC	BANDERHUN	Aileu	Aileu	LIURAI	1990s	2012	30	52	35			●	●	30	C				●		●			●	●	●			●	●	●	●	●			●
	1-b-2S	FATUBOSA	Aileu	Aileu	FATUBOSA	1980s	2013	54	50	36	●	●	●	●	90	A		A50		●	●	●		-Up of hill: spring	●	●			●	●	●	●	●	- Seasonal Crops		●
	1-b-3S	SARIN	Aileu	Aileu	BANDUDATO	unknown		51	45	58		●	●	●	50	B				●							●			●	●		●	●	- Kang Kung - Mustard		●
	1-b-4TR	SELOI CRAIK	Aileu	Aileu	SELOI CRAIK	1990s	2009	37	20	90	●		●	●	70	A				●		●	●			●	●			●	●	●	●	●	- Kang Kung - Mustard	●	
	1-b-5TR	AISIRMO	Aileu	Aileu	AISIRMO	2000s	2013	30	80	65	●	●	●	●	90	A				●		●				●	●			●	●				- Seasonal Crops		●
	1-b-6TR	FAHIRIA	Aileu	Aileu	FAHIRIA	1980s	2013	20	40	35	●	●	●	●	90	A				●		●				●	●			●	●				- Seasonal Crops	●	
	1-b-7TR	SABORIA	Aileu	Aileu	Saboria	2010s	2012	15	50	82	●	●	●	●	90	A				●		●				●	●			●	●	●	●	●			●
	1-b-8TR	DAUBUTIMRI	Aileu	Aileu	LEVOIA	2000s	2012	12	15	58	●		●		60	B				●	●	●				●	●			●	●			●	- Kang kung - Banana		●
	1-b-9TR	BOBULOLI	Aileu	Aileu	MALERE	unknown		18	25	15	●			●	50	B				●		●					●			●	●	●	●	●		●	
Ainaro	2-c-1S	RAIBERE	Ainaro	Hato-Udo	LEOLIMA	2010s		101	245	287	●	●	●		90	A	A100			●		●				●	●			●	●					●	
	2-c-2S	KOILOE	Ainaro	Ainaro	MANUTASI	2010s		38	75	504		●	●		40	C				●		●					●			●						●	
	2-c-3S	MAU-ULU	Ainaro	Ainaro	AINARO	2010s		40	47	270		●	●		40	C				●		●				●	●			●	●					●	
	2-c-4S	LUAN KADOE	Ainaro	Ainaro	CASSA	2010s		69	71	25		●			20	C				●		●					●			●						●	
	2-c-5TR	KAKEULAKU	Ainaro	Ainaro	CASSA	2010s		288	629	350	●	●	●		90	A	A100			●		●					●			●						●	
	2-c-6TR	PAULATA	Ainaro	Ainaro	CASSA	2010s		22	27	200		●			20	C				●		●					●			●						●	
	2-c-7TR	AKADIRU KEDE	Ainaro	Ainaro	CASSA	unknown	2013	27	629	350	●	●	●		80	A				●		●					●			●						●	
	2-c-8TR	LIAS	Ainaro	Ainaro	CASSA	2010s		38	35	25		●	●		40	C				●		●					●			●						●	
	2-c-9TR	Luan Kadoi	none	none	none	unknown		none	none	none					0	0																				
	2-c-10TR	BONUK	Ainaro	Hato-Udo	LEOLIMA	unknown		include "5"	900	300	●	●	●		90	A	A100			●		●					●			●						●	
	2-c-11TR	AIDAKLARAN	Ainaro	Hato-Udo	LEOLIMA	2010s		include "1"	245	287	●	●	●		90	A	A100			●		●				●	●			●	●					●	
	2-c-12TR	BOBE	Ainaro	Hato-Udo	LEOLIMA	unknown		388	1,190	800		●	●	●	60	B				●		●					●			●	●					●	
	2-c-13TR	BUIRUBU	Ainaro	Ainaro	FOHO AILICO	2010s		85	31	51		●	●		40	C				●		●				●	●			●						●	●
	2-c-14TR	BUIHA	Ainaro	Ainaro	SURU KARAIK	2010s		36	125	196		●			20	C				●	●					●	●			●						●	
	2-c-15TR	HATUMERA	Ainaro	Ainaro	Ainaro	2010s		16	50	25		●	●		40	C				●		●					●			●						●	
	2-c-16TR	Mausuka	none	none	none	unknown		none	none	none					0	0																				
	2-c-Add-1	KAKEULAKU	Ainaro	Hato-Udo	LEOLIMA	unknown		include "5"	900	300			●		30	C				●		●					●			●						●	
Baucau	4-a-1TC	WAIHUSU	Baucau	Baucau	BAHU	Before 1970		40	85	500			●		20	C				●	●				●	●	●	●		●	●	●	●	●	- Tomato - Onion	●	
	4-a-2TC	SEICAL UP	Baucau	Baucau	SEICAL	unknown		1026	800	605		●	●	●	60	B				●		●			●	●	●			●						●	
	4-a-3S	SEICAL DOWN (OSOSFGF)	Baucau	Baucau	SEICAL DOWN DE CIMA	1990s		207	540	230	●	●	●	●	100	A	A100			●		●				●	●			●				●		- Tomato		●
	4-a-4TR	SOTOISI LETEN	Baucau	Quelicai	LACULIU	unknown		425	60	95		●	●	●	60	B				●		●				●	●			●						●	
	4-a-5TR	UAI DAE	Baucau	Quelicai	BUALALE	unknown		18	130	92		●	●	●	50	B				●		●				●	●			●						●	
	4-a-6TR	TATIGATA	Baucau	Quelicai	WAITAME	unknown		include"4"	130	82		●	●	●	60	B				●		●				●	●			●						●	
	4-a-7TR	LETE GUA	Baucau	Quelicai	GURUCA	unknown		27	69	72		●	●	●	50	B						●					●										
	4-a-8TR	WAILAU LETEN	Baucau	Quelicai	BUALELE	unknown		101	60	80	●				50	B				●		●				●	●	●		●	●			●	- Tomato		●
	4-a-9TR	ODU KALELE	Baucau	Quelicai	MAKALALO	unknown		102	34	27		●	●	●	60	B				●		●				●	●			●						●	
	4-a-10TR	SIA KAU SUI ANAU	Baucau	Quelicai	MAKALALO	unknown		22	60	47			●	●	30	C				●		●				●	●			●						●	
	4-a-11TR	UNUTU UAE-LALARFE	Baucau	Quelicai	MAKALALO	unknown		14	50	31		●	●	●	50	B				●		●				●	●			●						●	
	4-a-12TR	SOTO ISI KARAIK	Baucau	Quelicai	LACULIU	unknown		include"4"	60	70		●	●	●	60	B				●		●				●	●			●	●					●	
	4-a-13TR	IRA RAGO-RAGO	Baucau	Quelicai	LAISORULAI DE CIMA	unknown		31	120	200		●	●	●	50	B				●		●				●	●	●		●						●	
	4-a-14TR	BIBI NENE-LIKAMONI	Baucau	Quelicai	AFACA GURUCA	unknown		102	159	82		●	●		50	B				●		●				●	●			●						●	
	4-a-15TR	SAMA TIRILOLO	Baucau	Quelicai	BUALALE	unknown		33	60	42		●	●	●	50	B				●		●				●	●			●						●	
	4-a-16TR	UAI BANE	Baucau	Quelicai	LELALAI	unknown		17	70	63		●	●	●	50	B				●		●				●	●			●						●	
	4-a-17TR	BOROKILI	Baucau	Quelicai	BUALELE	1990s	2009	include"8"	85	60		●		●	40	C				●		●				●	●			●	●				- Tomato - Onion		●
	4-a-18TR	GALA RESI	Baucau	Quelicai	BUALALEBAQUIA	unknown		include"8"	50	60			●	●	40	C				●		●				●	●			●						●	
	4-a-19TR	ABA GUIA	Baucau	Quelicai	AFACA GURUCA	unknown		20	20	51		●	●	●	50	B				●		●				●	●			●						●	
	4-a-20TR	IRA UJI-LUKADI	Baucau	Quelicai	LELALAI	1990s	2009	17	20	42		●	●	●	50	B				●		●				●	●			●						●	
	4-a-21TR	LAUMANA UAIMILI	Baucau	Quelicai	LETEMUMU	unknown		include"4"	85	87			●		30	C				●	●					●	●	●		●					- Tomato - Onion		●
	4-a-22TR	METE RUI LETEN	Baucau	Quelicai	BUALALE	unknown		include"4"	40	21		●	●	●	60	B				●		●				●	●			●						●	
	4-a-23TR	UAI RESI (UATUDALA)	Baucau	Quelicai	LELALAI	unknown		20	35	40		●	●	●	50	B				●		●				●	●			●						●	
	4-a-24TR	TIBA LARI	Baucau	Quelicai	LAISORULAI DE CIMA	unknown		113	120	80	●		●	●	80	A	A100			●		●				●	●			●						●	
	4-a-25TR	UAIDABA	Baucau	Quelicai	LAISORULAI DE CIMA	unknown		include"24"	74	80	●	●	●		80	A	A100			●		●				●	●	●			●						●
	4-a-26TR	Bau Gia	Baucau	Laga	Saelari	Before 1970		6	25	23	●				40	C				●	●					●	●			●						●	
	4-a-27TR	SIRIMANA	Baucau	Laga	LIBAGUA	Before 1970		35	30	38	●	●	●		80	A				●		●				●	●			●						●	
	4-a-28TR	Tati Ira	Baucau	Laga	Soba	Before 1970		include"27"	30	18		●	●		40	C				●		●				●	●			●						●	
	4-a-29TR	SOBANISI	Baucau	Laga	SAGADATE	Before 1970		103	86	27			●	●	40	C						●				●	●										
	4-a-30TR	BATAFU	Baucau	Laga	SAMALARI	unknown		100	30	162	●		●	●	80	A	A100			●		●				●	●			●						●	

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	4-a-31TR	WATAKAITARA	Baucau	Laga	SAGADATI	unknown		14	40	15			•	•	30	C						•				•	•										
	4-a-32TR	BIGESI RAGAISI	Baucau	Laga	SAGADATE	Before 1970		9	80	17			•	•	30	C						•				•	•										
	4-a-33TR	Suliu	Baucau	Laga	Saelari	Before 1970		include"26"	5	10		•			30	C				•	•					•	•	•		•					•		
	4-a-34TR	Ono Meta	Baucau	Laga	Soba	Before 1970		26	138	180		•	•	•	50	B				•		•				•	•			•					•		
	4-a-35TR	Wari Nana	Baucau	Laga	Soba	Before 1970		39	230	435		•	•	•	50	B				•		•				•	•			•					•		
	4-a-36TR	Ossumutu	Baucau	Laga	Soba	Before 1970		include"35"	4	12		•	•	•	50	B				•		•				•	•										
	4-a-37TR	SAE ASANA	Baucau	Laga	SOBA	Before 1970		89	160	180		•			20	C				•		•				•	•			•					•		
	4-a-38TR	ONE ABA	Baucau	Laga	SOBA	Before 1970		262	40	20		•	•		50	B				•		•				•	•			•					•		
	4-a-39TR	SORO DUFU LIU	Baucau	Laga	Soba	Before 1970		4	25	25					0	C				•		•		- River name: Laga river		•	•			•						•	
	4-a-40TR	GUNIDAAGEE	Baucau	Laga	TEQUINOMATA	unknown		include"38"	110	60		•	•	•	60	B				•		•				•	•			•					•		
	4-a-41TR	Balubagee	Baucau	Laga	Tequinomata	unknown		7	32	34		•	•	•	50	B				•		•				•	•			•					•		
	4-a-42TR	WALEKIGEE	Baucau	Laga	TEQUINOMATA	unknown		include"38"	130	52		•	•	•	60	B				•		•				•	•										
	4-a-43TR	ARALEUSI	Baucau	Laga	TEQUINOMATA	unknown		include"38"	120	67		•		•	40	C				•		•				•	•			•					•		
	4-a-44TR	DAER LIU	Baucau	Laga	Soba	Before 1970		57	150	130			•	•	30	C				•		•				•	•			•					•		
	4-a-45TR	DEFAGISI	Baucau	Laga	SOBA	Before 1970		49	35	18		•	•		40	C				•		•				•	•			•					•		
	4-a-46TR	Luge	Baucau	Laga	Soba	Before 1970		32	145	220		•	•	•	50	B				•		•				•	•			•					•		
	4-a-47TR	LOINDANA	Baucau	Laga	TEQUINOMATA	Before 1970		200	162	52		•	•	•	60	B				•		•				•	•			•					•		
	4-a-48TR	ALERE GITUFU	Baucau	Laga	TEQUINOMATA	Before 1970		include"47"	45	25			•	•	40	C				•		•				•	•										
	4-a-49TR	AUTIBALAKO	Baucau	Laga	TEQUINOMATA	unknown		include"47"	25	15		•	•	•	60	B				•		•				•	•			•					•		
	4-a-50TR	LABALOU	Baucau	Laga	TEQUINOMATA	unknown		include"47"	20	20		•	•	•	60	B				•		•				•	•			•					•		
	4-a-51TR	LEMAGE	Baucau	Laga	TEQUINOMATA	unknown		include"38"	100	72		•	•	•	60	B				•		•				•	•										
	4-a-52TR	TITI LARI	Baucau	Laga	ATELARI	Before 1970		283	45	35		•	•		50	B				•		•				•	•			•					•		
	4-a-53TR	USUMATA	Baucau	Laga	TEQUINOMATA	unknown		include"38"	55	12		•	•	•	60	B				•		•				•	•										
	4-a-54TR	MUASUFA	Baucau	Laga	TEQUINOMATA	Before 1970		include"38"	110	48		•		•	40	C				•		•				•	•			•					•		
	4-a-55TR	BUASUNU	Baucau	Laga	TEQUINOMATA	2000s		89	52	15		•		•	30	C				•		•				•	•			•					- Beet root - Tomato		•
	4-a-56TR	BULUBAI	Baucau	Laga	TEQUINOMATA	unknown		include"41"	100	57		•	•	•	60	B				•		•				•	•			•					•		
	4-a-57TR	none				unknown		none							0	0																				
	4-a-58TR	BATAGATA	Baucau	Laga	TEQUINOMATA	unknown		43	70	40	•	•	•	•	90	A				•		•		- River name :Kakau		•	•			•						•	
	4-a-59TR	MODOBUTI	Baucau	Baucau	SAMALARI	Before 1970		298	900	580		•	•	•	60	B				•		•				•	•			•					•		
	4-a-60TR	NATAOLI	Baucau	Baucau	BERCOLI	Before 1970		165	200	59			•		30	C				•		•				•	•			•					•		
	4-a-61TR	TEREAI	Baucau	Laga	ATELARI	Before 1970		181	25	50		•	•		50	B				•		•				•	•			•					•		
	4-a-62TR	HELAIDUBU	Baucau	Laga	Atelari	Before 1970		include"61"	15	28		•	•	•	50	B				•		•				•	•										
	4-a-63TR	SOBANISIN	Baucau	Laga	Nunira	Before 1970		28	130	42	•	•	•		80	A				•		•				•	•			•					•		
	4-a-64TR	GELABA	Baucau	Laga	ATELARI	Before 1970		include"52"	20	53		•	•		50	B				•		•				•	•			•					•		
	4-a-65TR	WAINOE	Baucau	Baucau	GARIWAI	unknown		189	150	123	•				50	B				•	•					•	•	•		•				•	- Tomato		•
	4-a-66TR	WAIRESA	Baucau	Baucau	GARIWAI	Before 1970		59	80	230		•	•	•	50	B				•		•				•	•			•					•		
	4-a-67TR	WAILOLO	Baucau	Baucau	GARIWAI	Before 1970	2012	92	120	250		•	•	•	50	B				•	•					•	•										
	4-a-68TR	ULUISI (GARIWAI)	Baucau	Baucau	GARIWAI	Before 1970	2012	602	40	25			•		30	C				•		•				•	•			•					•		
	4-a-69TR	SEBELIU (GARIWAI)	Baucau	Baucau	GARIWAI	Before 1970		20	330	220	•		•	•	70	A				•		•				•	•										
	4-a-70TR	ULUISI(SAMALARI)	Baucau	Baucau	SAMALARI	Before 1970	2012	include"68"	150			•	•		50	B				•		•				•	•			•					•		
	4-a-71TR	SEBELIU(SAMALARI)	Baucau	Baucau	SAMALARI	Before 1970		include"69"	330	220	•		•	•	80	A				•		•				•	•										
	4-a-72TR	DUGUTAME(BUBUTAME)	Baucau	Baucau	SAMALARI	Before 1970		include"59"	580	200		•			30	C				•		•				•	•			•					•		
	4-a-73TR	WAILEWA	Baucau	Laga	BAHU	Before 1970		22	150	300			•		20	C				•	•			BAUCAU WATER		•	•	•		•	•	•	•	•	- Tomato - Beet Root	•	
	4-a-74TR	WAIOLI-LALEA	Baucau	Baucau	GARIWAI	2010s		149	80	51	•			•	70	A	A100			•	•					•	•	•		•	•	•					•
	4-a-75TR	WAIBU	Baucau	Baucau	GARIWAI	Before 1970		25	60	47			•		20	C				•		•				•	•	•		•	•	•		•	- Tomato		•
	4-a-76TR	WAITAKATUA	Baucau	Baucau	GARIWAI	Before 1970		include"65"	25	20		•	•		50	B				•	•					•	•	•									•
	4-a-77TR	DADAGUA	Baucau	Baucau	GARIWAI	unknown		62	160	73	•		•		60	B				•	•					•	•	•		•	•				- Tomato - Onion		•
	4-a-78TR	LIAME	Baucau	Baucau	GARIWAI	unknown		97	25	21	•		•		60	B				•	•					•	•			•		•					•
	4-a-79TR	BUILIBA	Baucau	Baucau	WAILITE	Before 1970		include"68"	158	48	•				50	B				•		•				•	•									•	
	4-a-80TR	BIBIDU	Baucau	Baucau	WAILITE	Before 1970		include"68"	158	48	•				50	B				•		•				•	•									•	
	4-a-81TR	ULUISI (WAILILI)	Baucau	Baucau	WAILILI	Before 1970	2013	include"68"	130	50		•	•		50	B				•		•				•	•									•	
	4-a-82TR	WAILALA (WAILIFWA)	Baucau	Baucau	BAHU-BURUMA	Before 1970		include"1"	130	250			•		30	C				•	•			WATER SUPPLY		•	•	•		•	•	•	•	•	- Onion - Tomato	•	
	4-a-83TR	DEIWAKE	Baucau	Baucau	BAHU	Before 1970		72	20	45			•		20	C				•	•					•	•	•		•	•	•	•	•	- Onion - Tomato	•	
	4-a-84TR	none	none	none	none	unknown		none	none	none					0	0																				
	4-a-85TR	none	none	none	none	unknown		none	none	none					0	0																				
	4-a-86TR	Wailetena	Baucau	Vemasse	Osoala	2010s	2013	28	40	62		•		•	30	C				•		•				•	•			•	•		•				•
	4-a-87TR	WAIDARE KALILALE	Baucau	Baucau	BOCOLI	unknown		15	113	110			•		20	C				•	•					•	•	•									

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	4-a-88TR	WAISEMO WAISEMU	Baucau	Baucau	BUCOLI	Before 1970	2008	22	113	85		•	•		40	C				•	•				•	•	•		•					- Onion - Tomato	•	
	4-a-89TR	KARABOE	Baucau	Baucau	BUCOLI	Before 1970	2010	19	35	20			•		20	C				•	•				•	•	•									
	4-a-90TR	KOBUWAI	Baucau	Baucau	BUCOLI	Before 1970		include "88"	113	85			•		30	C				•	•				•	•	•		•					- Onion - Tomato	•	
	4-a-91TR	WAILILI	Baucau	Baucau	WAILILI	Before 1970	1999	12	90	60			•		20	C				•	•				•	•	•		•	•	•	•	•	- Onion - Tomato	•	
	4-a-92TR	Madoma	Baucau	Vemasse	Vemasse	2010s		295	60	20		•		•	40	C				•		•			•	•			•						•	
	4-a-93TR	Motagade (Metagade/Lalaia	Baucau	Vemasse	Vemasse-Vila	unknown		include "92"	480	170	•	•	•	•	90	A				•		•			•	•			•						•	
	4-a-94TR	WELABA TOGU	Baucau	Vemasse	VEMASSE	unknown		263	100	37		•		•	40	C				•		•			•	•			•						•	
	4-a-95TR	Bilimbi	Baucau	Vemasse	Vemasse	unknown		include "94"	35	10		•	•	•	60	B				•		•			•	•										
	4-a-96TR	Lavandaria	Baucau	Vemasse	Vemasse	unknown		19	140	25	•	•	•	•	90	A				•		•			•	•			•	•					•	
	4-a-97TR	WETEN	Baucau	Vemasse	VEMASSE	2000s		include "94"	150	50		•	•	•	60	B				•		•			•	•	•		•						•	
	4-a-98TR	Cau-Nura	Baucau	Vemasse	Osoala	2010s		include "86"	180	700		•		•	40	C				•		•			•	•			•	•		•				•
	4-a-99TR	CAILALEBAE	Baucau	Venilale	BAHAMORI	2000s	2008	52	20	25		•	•	•	50	B				•		•			•	•			•	•	•				•	
	4-a-100TR	TULAWAKE UP	Baucau	Vemasse	VEMASSE	2000s		211	70	40		•		•	40	C				•		•			•	•			•						•	
	4-a-101TR	Loe-Leki (Wailakama)	Baucau	Vemasse	Vemasse	2000s		49	150	50		•	•		40	C				•	•	•			•	•			•						•	
	4-a-102TR	Watu-Bala	Baucau	Vemasse	Vemasse	Before 1970		22	150	52		•		•	30	C				•		•			•	•			•						•	
	4-a-103TR	Tulawake Down	Baucau	Vemasse	Vemasse	Before 1970		include "100"	50	17		•	•	•	60	B				•		•			•	•										
	4-a-104TR	none				unknown		none							0	0																				
	4-a-105TR	Caibada	Baucau	Venilale	Bahamori	unknown		22	300	29		•	•	•	50	B				•		•			•	•			•						•	
	4-a-106TR	ASALAIWARI	Baucau	Baucau	WAILILI	unknown		include"68"	32	29		•	•		50	B				•	•				•	•	•		•	•				- Tomato		•
	4-a-107TR	MANULAWA IRABIN	Baucau	Baucau	WAILILI	Before 1970		include"75"	35	13	•		•		70	A				•	•				•	•	•		•	•				- Tomato - Onion		•
	4-a-108TR	none				unknown		none							0	0										•	•									
	4-a-109TR	BADUCASA	Baucau	Baucau	WAILILI	Before 1970	2012	include"68"	40	30		•	•		50	B				•		•			•	•			•						•	
	4-a-110TR	HAEQALA	Baucau	Venilale	WAI LAHA	2000s	2008	145	20	25	•	•	•	•	100	A	A100			•		•			•	•			•	•	•				•	
	4-a-111TR	BAEMETA	Baucau	Venilale	BAHAMORI	Before 1970		127	40	90			•		30	C				•		•			•	•			•						•	
	4-a-112TR	LIAKURA	Baucau	Venilale	BHAMORI	unknown		34	100	70		•	•	•	50	B						•			•	•										
	4-a-113TR	GALATA BAHAMORI	Baucau	Venilale	BAHAMORI	unknown		37	265	56		•	•	•	50	B				•		•			•	•			•						•	
	4-a-114TR	WEGABUILUI	Baucau	Venilale	BAHAMORI	Before 1970		include "99"	30	30		•	•		50	B				•			•		•	•	•		•	•	•	•	•		•	
	4-a-115TR	WAILERA	Baucau	Venilale	WAILARA	2010s	2012	186	26	36		•			30	C				•	•				•	•	•		•						•	
	4-a-116TR	WAIHU	Baucau	Benilale	WAI LAHA	1970s	2010	include "110"	25	20		•	•		50	B				•	•				•	•	•		•	•	•	•	•		•	
	4-a-117TR	WAIBADU	Baucau	Venilale	UALAUAI LAHA	unknown		include "110"	50	40		•			30	C				•	•				•	•	•		•	•	•	•		- Onion - Chili	•	
	4-a-118TR	WAIMO'O	Baucau	Venilale	WAI LAHA WATU WACU	Before 1970		include "110"	35	38		•			30	C				•		•			•	•			•	•					•	
	4-a-119TR	WAIKINBO'O	Baucau	Venilale	FATULIA	unknown		2	2	4		•			20	C									•	•	•		•	•					•	
	4-a-120TR	WAIMI-WAISISII ALI	Baucau	Venilale	FATULUA	unknown		19	10	20		•		•	30	C						•			•	•			•						•	
	4-a-121TR	GALATA UATUHACO	Baucau	Venilale	UATUHACO	unknown		172	20	25		•	•	•	60	B				•		•			•	•			•						•	
	4-a-122TR	CAIGRANU	Baucau	Venilale	UATO HACO	1970s		include "110"	22	20		•	•		50	B				•	•				•	•	•		•						•	
	4-a-123TR	TALIBACA	Baucau	Venilale	UATO HACO	1990s	2012	include "110"	50	29		•	•	•	60	B				•	•				•	•			•	•					•	
	4-a-124TR	WAIWALUBERE	Baucau	Venilale	WAI - HU	unknown		139	30	100		•		•	40	C				•					•	•	•		•						•	
	4-a-125TR	WAI OLI	Baucau	Venilale	WAI - HU	unknown		include "124"	200	100		•		•	40	C				•					•	•	•		•						•	
	4-a-126TR	WAISUSULETEN	Baucau	Venilale	WAI - HU	unknown		include "124"	30	100		•		•	40	C				•					•	•	•		•						•	
	4-a-127TR	WAIKINBO'O	Baucau	Venilale	FATLEIA	unknown		76	82	15		•		•	30	C					•				•	•	•		•						•	
	4-a-128TR	WAISULI	Baucau	Venilale	FATUHIA	unknown		18	60	40	•	•			60	B					•				•	•	•		•						•	
	4-a-129TR	SAMALIU LIQUIDIGA I	Baucau	Baguia	LARISULA	Before 1970	2013	364	347	227		•	•	•	60	B				•		•			•	•			•						•	
	4-a-130TR	Afalita I (Laarisula)	Baucau	Baguia	Larisula	Before 1970		include "129"	170	227			•	•	30	C				•		•			•	•			•							
	4-a-131TR	Afalita II	Baucau	Baguia	Larisula	Before 1970		include "129"	125	227		•	•	•	50	B				•		•			•	•			•						•	
	4-a-132TR	Afalita III	Baucau	Baguia	Larisula	Before 1970		include "129"	60	227			•	•	30	C				•		•			•	•			•						•	
	4-a-133TR	Lequidiga II	Baucau	Baguia	Larisula	Before 1970		include "129"	347	227			•	•	30	C				•		•			•	•			•						•	
	4-a-134TR	Lequidiga III	Baucau	Baguia	Larisula	Before 1970		include "129"	347	227	•		•	•	70	A				•		•			•	•			•						•	
	4-a-135TR	LESUN	Baucau	Baguia	LARISULA	Before 1970		82	150	25			•	•	30	C				•		•			•	•			•						•	
	4-a-136TR	RUTA LETEMU	Baucau	Quelicai	LETEMU	unknown		81	80	52		•	•	•	50	B				•		•			•	•			•	•				- Tomato		•
	4-a-137TR	BUTILEO	Baucau	Quelicai	BAGUIA	unknown		include"4"	30	47		•	•	•	60	B				•		•			•	•			•	•				- Tomato		•
	4-a-138TR	GUNINEI	Baucau	Quelicai	LACULIU	unknown		include"4"	30	25			•	•	40	C				•	•				•	•			•					- Tomato		•
	4-a-139TR	BOISI	Baucau	Quelicai	LELALAI	unknown		include"23"	35	40		•	•	•	60	B				•		•			•	•			•						•	
	4-a-140TR	BUIBERE	Baucau	Quelicai	LACULIU	unknown		include"8"	30	16		•	•	•	60	B				•	•				•	•			•						•	
	4-a-141TR	RUTA BAGUIA	Baucau	Quelicai	BAGUIA	unknown		include"136"	43	60		•		•	40	C				•		•			•	•			•						•	
	4-a-142TR	Tequinomata	Baucau	Laga	Tequinomata	unknown		include"37"	600	175		•		•	40	C				•		•			•	•			•					- Tomato - Kang kung		•
	4-a-143TR	CASAMETA	Baucau	Baucau	SEICAL	unknown		259	750	170		•	•	•	60	B				•		•			•	•			•						•	
	4-a-Add-1	Welaban Rasa	Baucau	Vemasse	Vemasse	2010s		include "94"	80	25		•	•	•	60	B				•		•			•	•			•						•	

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	4-a-Add-2	LUBNAS	Baucau	Laga	SOBA	Before 1970		26	50	85		●			20	C				●						●	●								●	
	4-a-Add-3	CAIBADA	Baucau	Baucau	BAHU	Before 1970	2007	3	25	35			●		20	C				●	●	●				●	●				●	●	●	●	●	- Kang kung - Tomato	●	
	4-a-Add-4	DURABUTI	Baucau	Laga	SAGADATE	Before 1970		8	70	8			●	●	30	C				●		●				●	●									
	4-a-Add-5	IRA LUTU	Baucau	Laga	Saelari	Before 1970		include"26"	30	15		●			30	C				●	●						●								●	
	4-a-Add-6	LALEIDANA	Baucau	Laga	SAMALARI	unknown		include"30"	24	35			●	●	40	C				●		●				●	●				●				●	
	4-a-Add-7	Lo'o-Gata	Baucau	Laga	ATELARI	Before 1970		168	70	230	●	●	●		90	A	A100			●		●				●	●				●				●	
	4-a-Add-8	ARAMI	Baucau	Venilale	WATUHACO	unknown		include "115"	20	25		●		●	40	C				●		●			●	●	●				●				●	
	4-a-Add-9	ALERE GILARI	Baucau	Laga	TEQUINOMATA	unknown		include"47"	120	157		●	●	●	60	B				●		●				●	●				●				●	
	4-a-Add-10	WALI TAUR	Baucau	Baucau	SAMALARI	Before 1970		include"59"	300	150		●		●	40	C				●		●					●				●				●	
	4-a-Add-11	Waihura	Baucau	Baucau	Bahu	2000s	2007	185	50	30					10	C				●	●						●	●			●	●	●	●	- Kang kung - Tomato	●	
	4-a-Add-12	Kama'ana	Baucau	Venilale	Wailaha	2000s		include "115"	27	45		●			30	C				●	●						●	●			●				- Kang kung - Tomato	●	
	4-a-Add-13	Guabai	Baucau	Vemasse	Uatulari	Before 1970		25	25	20	●	●		●	70	A				●		●				●	●				●				●	
	4-a-Add-14	Era Ruin	Baucau	Vemasse	Vemasse	Before 1970		include "94"	120	20		●		●	40	C				●		●				●	●				●				●	
Bobonaro	1-e-1TC	MALIANA I	Bobonaro	Maliana	LAHOMEA	1970s	2010	900	1,050	1,467		●		●	40	C			●			●		- River name: Bulobo	●	●	●		-SPILL WAYS	●	●		●		- Cabaggе - Cucumber		●
	1-e-2TC	LOTAN	Bobonaro	Balibò	BATUGADE	1990s	2002	30	80	78		●			20	C			●		●	●			●	●	●		-SEDIMENT BASIN	●	●	●			- Kang Kung - Tomato		●
	1-e-3S	MALIUBUN	Bobonaro	Bobonaro	MALIUBUN	2000s		31	65	150			●		20	C				●	●	●					●	●			●	●	●	●			●
	1-e-4S	TEBABUI	Bobonaro	Bobonaro	TEBABUI	2000s		11	50	70		●	●	●	50	B				●		●	- River name: Bulobo			●	●			●	●	●	●	●		●	
	1-e-5S	HALECOU	Bobonaro	Maliana	RITABOU	2000s		364	345	103	●	●	●	●	100	A	A100		●			●	- River name: Bebeai			●	●			●	●		●				●
	1-e-6S	MALIANA II	Bobonaro	Maliana	TAPO MEMO	1980s	2012	1700	1,500	338	●	●	●	●	100	A	A100			●		●	- River name: Malicaba			●	●	-SPILL WAYS	●	●					●	
	1-e-7S	MAUTALO	Bobonaro	Cailaco	MILIGO	2000s		91	120	54		●		●	30	C			●			●				●	●	-DROP STRUCTUR	●	●				- Mustard - Kang kung		●
	1-e-8S	MARCO	Bobonaro	Cailaco	MILIGO	1990s	2004	208	325	203	●	●	●	●	100	A	A100			●		●				●	●			●	●				●	
	1-e-9S	BILIMAU	Bobonaro	Cailaco	BILIMAU	2000s		379	350	103		●		●	40	C			●			●	- River name: Marobo			●	●	-DROP STRUCTUR	●	●						●
	1-e-10S	none				unknown		none							0	0																				
	1-e-11S	LOES ATABAE	Bobonaro	Atabae	AIDABALETEN	1990s	2006	164	270	332		●	●	●	60	B				●		●				●	●			●	●					●
	1-e-12TR	BEACOU	Bobonaro	Maliana	RITABOU	2000s	2004	75	76	30		●	●	●	50	B				●		●	- River name: Bulobo			●	●			●	●				- Kang kung - Cabaggе		●
	1-e-13TR	HOLIHUT	Bobonaro	Maliana	RITABOU	unknown		118	75	43	●				50	B				●			- Water is supplyed			●	●			●	●				- Kang Kung - Tomato		●
	1-e-14TR	AIKIAR	Bobonaro	Maliana	RITABOU-LAHOMET	unknown		include"13"	150	71	●				50	B				●			- Water is supplyed			●	●			●	●						●
	1-e-15TR	BANEGUT	Bobonaro	Maliana	RITABOU	unknown		include"13"	80	27	●				50	B				●	●						●	●			●	●					●
	1-e-16TR	BANEGOA	Bobonaro	Maliana	RITABOU	unknown		include"13"	50	21	●				50	B				●			- Water is supplyed				●	●			●	●					●
	1-e-17TR	KORLULI	Bobonaro	Maliana	RITABOU	unknown		39	60	37				●	10	C				●		●				●	●				●					●	
	1-e-18TR	DARE	Bobonaro	Maliana	RITABOU	unknown		31	72	50	●	●		●	70	A				●		●				●	●				●	●					●
	1-e-19TR	LEKITAE	Bobonaro	Maliana	RITABOU	unknown		include"18"	152	125				●	20	C						●				●	●				●						●
	1-e-20TR	PAILELO	Bobonaro	Maliana	RITABOU	unknown		60	78	44	●	●		●	70	A		A50				●	- River name: Bulobo			●	●			●						●	
	1-e-21TR	BEASU OABEIN	Bobonaro	Maliana	RITABOU	unknown		2	70	21	●		●	●	70	A				●		●				●	●	●			●					●	
	1-e-22TR	CIBOH	Bobonaro	Maliana	TAPO MEMO	2000s	2012	include"6"	98	50	●	●	●	●	100	A						●	- River name: Malibaca			●	●			●	●		●			●	
	1-e-23TR	NUNURA	Bobonaro	Bobonaro	TAPO MEMO	1990s	2004	227	225	78	●	●		●	80	A	A100			●		●				●	●				●	●	●	●			●
	1-e-24TR	BEAMAREN	Bobonaro	Atabae	AIDABALETEN	2010s		14	102	52		●		●	30	C				●		●				●	●				●					●	
	1-e-25TR	LEOLIMA	Bobonaro	Balibo	LEOLIMA	2000s		10	120	72			●		20	C				●		●				●	●	●									
	1-e-26TR	BATUGADE (AMODAK)	Bobonaro	Balibo	BATUGADE	unknown		15	78	65	●	●			60	B				●	●						●	●			●				- Kang Kung - Tomato		●
	1-e-27TR	BUGAS	Bobonaro	Bobonaro	TEBABUI	2000s	2012	12	30	50	●	●	●	●	90	A				●		●	- River name: Taporeman			●	●			●	●	●	●	●		●	
	1-e-28TR	SORLULI	Bobonaro	Bobonaro	LOURBA	2010s		45	80	150		●		●	30	C			●			●				●	●				●				- Kang Kung - Tomato		●
	1-e-29TR	none	none	none	none	unknown		none	none	none					0	0																				
	1-e-Add-1	MULA'U	Bobonaro	Maliana	RITABOU	unknown		284	69	25	●	●		●	80	A	A100			●		●					●				●	●		●			●	
	1-e-Add-2	MIQUIR	Bobonaro	Atabae	AIDABA-LETEN	unknown		83	1,064	87	●			●	50	B				●		●				●	●				●	●				- Tomato - Cabaggе	●	
Covalima	2-b-1TC	WELULI	Covalima	Zumalai	RAIMEAN	1990s		534	700	600		●	●	●	60	B				●		●					●				●	●					●
	2-b-2TC	LOMEA	Covalima	Suai	BECO	1980s		158	560	156	●	●	●	●	100	A	A100			●		●			●			●			●					●	
	2-b-3S	MOLA I	Covalima	Zumalai	RAIMEA	2010s		184	248	1,555			●		30	C				●		●					●				●					●	
	2-b-4S	Mola III			under-imple.	unknown		none							0	0																				
	2-b-5S	Mola IV			under-imple.	unknown		none							0	0																				
	2-b-6S	BORAOAN	Covalima	Tilomar	KASABAUK	unknown		49	65	24			●		20	C				●							●				●					●	
	2-b-7S	Aioan (Beiati)			under-imple.	unknown		none							0	0																				
	2-b-8S	SALELE BOOT	Covalima	Tilomar	BEISEUK	2010s		83	147	194			●		20	C				●	●						●	●			●					●
	2-b-9S	AIOAN	Covalima	Tilomar	LALAWA	2010s		197	140	155			●		30	C				●	●					●	●	●			●					●	
	2-b-10S	WALALETE	Covalima	Suai	CAMANASA	1990s		99	90	800		●	●		40	C				●		●					●				●					●
	2-b-11S	BEKIAR	Covalima	Suai	BECO	2000s		56	147	516			●		20	C				●	●					●	●	●			●	●				●	
	2-b-12TR	PAKAN	Covalima	Zumalai	TASHILIN	2000s		159	1,300	200		●	●		50	C				●	●						●				●					●	
	2-b-13TR	MOLA II	Covalima	Zumalai	RAIMEA	1990s		57	75	444	●	●	●		80	A		A50		●		●				●	●				●					●	

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure						Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	2-b-14TR	WELULI I	Covalima	Zumalai	Cassa	unknown		197	170	45		●	●		50	C				●						●			●						●	
	2-b-15TR	NATAR KABARAK	Covalima	suai	SUAI LORO	unknown		782	180	365		●	●	●	60	B				●		●				●			●						●	
	2-b-16TR	WE BOOT	Covalima	Suai	SUAI-LORO	unknown		Include"15"	180	380		●	●	●	60	B				●		●				●			●						●	
	2-b-17TR	WEBUSA	Covalima	Suai	DEBOS	2000s		Include"15"	200	210		●	●		50	C				●	●				●	●	●		●						●	
	2-b-18TR	TIA TOLOLO	Covalima	suai	SUAI LORO	unknown		Include"15"	50	365		●	●	●	60	B				●		●				●			●						●	
	2-b-19TR	WE DARE	Covalima	Suai	CAMANASA	unknown		21	75	200		●			20	C				●		●			●	●			●						●	
	2-b-20TR	BELURUK	Covalima	Zumalai	BECO	unknown		20	80	56		●	●		40	C				●	●					●	●		●						●	
	2-b-21TR	GALAG	Covalima	Suai	BECO	unknown		86	170	45		●	●		40	C				●						●			●						●	
	2-b-Add-1	WE'AU	Covalima	Suai	SUAI LORO	unknown		Include"15"	70	365			●		30	C				●		●				●			●						●	
Dili	1-a-1s	Loskabubu	Dili	Dom Aleixo	Comoro	1970s		10	75	20	●	●	●	●	90	A						●				●	●							- Crops of vegetables		
	1-a-Add-1	Hera	Dili	Cristo Rei II	Hera	2000s	2001	38	50	50	●	●	●	●	90	A				●	●	●				●	●			●	●	●	●	●	- Crops of vegetables		●
Ermera	1-d-1S	BELULI	Ermera	Ermera	TALIMORO	Before 1970s	2012	46	70	60	●			●	50	B				●				-Water is supplyed		●	●			●	●					●	
	1-d-2S	SARE	Ermera	Hatulia	ASULAU	Before 1970s		310	250	200			●	●	40	C				●		●				●	●			●	●				- Mustard	●	
	1-d-3S	TALIMORO	Ermera	Ermera	TALIMORO	Before 1970s	2012	14	202	25					0	C				●		●				●	●			●						●	
	1-d-4S	LAUALA	Ermera	Ermera	LAULA	1980s	2012	129	2	25	●		●	●	80	A	A100			●		●				●	●			●						●	
	1-d-5S	GLENO	Ermera	Ermera	LAULA	1980s		25	2	25	●	●	●	●	90	A				●		●		- Water is spplyed from		●	●			●						●	
	1-d-6S	MOTA - HARE	Ermera	Railaco	LILU	Before 1970s	2008	22	28	140			●	●	30	C				●		●				●	●			●	●						●
	1-d-6TR	KUKRU-MATE	Ermera	Ermera	POETETE	Before 1970s		9	10	194			●	●	30	C				●		●					●			●	●	●				●	
	1-d-7TR	MALABE	Ermera	Atsabe	MALABE	Before 1970s		47	65	245	●		●		60	B				●		●				●	●			●	●	●	●	●		●	
	1-d-7S	SIRUI	Ermera	Atsabe	LAUBONU	Before 1970s		100	15	46	●	●	●	●	100	A	A100			●		●				●	●			●	●						●
	1-d-8TR	MERAP-PUH	Ermera	Atsabe	LAUBONU	Before 1970s		11	46	28	●	●		●	70	A				●		●					●			●	●	●	●	●		●	
	1-d-9TR	AIBEI	Ermera	Atsabe	LAUBONU	Before 1970s		include"8"		180	●	●			70	A				●		●				●	●			●	●						●
	1-d-10TR	MANAFUNIA	Ermera	Atsabe	ATARA	Before 1970s		42	35	75		●	●	●	50	B				●		●				●	●				●	●	●	●			
	1-d-11TR	SAMARA	Ermera	Hatulia	SAMARA	Before 1970s		414	370	250		●	●		50	B				●		●				●	●			●						●	
	1-d-12TR	MANUGUA	Ermera	Hatulia	AILELO	Before 1970s		16	72	50	●	●	●	●	90	A				●		●				●	●			●	●						●
Lautem	6-a-1TC	CAIDABADA	Lautém	Luro	AFABUBU-DAUDERE	Before 1970		80	120	95			●		20	C				●		●			●	●	●							- Vegetables		
	6-a-2TC	AFABUBU	Lautém	Luro	AFABUBU	Before 1970		23	15	30	●		●		60	B				●	●	●				●	●			●						●	
	6-a-3S	PAPAPA	Lautém	Lospalos	FUILORO	1970s		944	60	80		●	●	●	60	B				●	●	●				●	●	●		●							●
	6-a-4TR	MALAISORO	Lautém	Tutuala	MEHANA	1970s		443	521	417			●		30	C					●		●				●	●		●						●	
	6-a-5TR	IRABERE	Lautém	Iliomar	TIRILOLO	2000s	2007	156	180	110	●		●	●	80	A	A100					●				●	●			●						●	
	6-a-6TR	MUALIU	Lautém	Iliomar	ILIOMAR	Before 1970		14	10	16			●		20	C						●				●	●			●					- Vegetables	●	
	6-a-7TR	AFUMBERE	Lautém	Iliomar	ILIOMAR I	Before 1970		14	20	15	●		●	●	70	A						●				●	●			●						●	
	6-a-8TR	IRADARATE	Lautém	Iliomar	ILIOMAR I	1980s		109	35	32			●	●	40	C						●				●	●			●						●	
	6-a-9TR	IRAMASUL	Lautém	Iliomar	ILIOMAR I	Before 1970	2002	include"8"	140	30			●	●	30	C						●				●	●			●						●	
	6-a-10TR	VENOSI	Lautém	Iliomar	ILIOMAR I	Before 1970		include"5"	80	38	●	●	●	●	100	A	A100					●				●	●			●						●	
	6-a-11TR	MAUMA'A	Lautém	Iliomar	Iliomar	Before 1970		17	10	14			●	●	30	C						●					●			●						●	
	6-a-12TR	TOPOLOBE	Lautém	Iliomar	ILIOMAR I	unknown		15	15	30			●		20	C						●					●	●									
	6-a-13TR	FAHEBERE	Lautém	Iliomar	ILIOMAR I	Before 1970		include"6"	45	37	●		●	●	80	A						●					●										
	6-a-14TR	APAT	Lautém	Iliomar	FUAT	Before 1970		12	40	20		●	●	●	50	B				●		●					●			●						●	
	6-a-15TR	NUNDEDER	Lautém	Iliomar	FUAT	Before 1970		21	40	15		●	●	●	50	B				●		●					●			●						●	
	6-a-16TR	FENNUR (MAMNUR)	Lautém	Iliomar	TIRILOLO	Before 1970		18	10	12		●	●	●	50	B						●				●	●									
	6-a-17TR	ROFO	Lautém	Iliomar	AILEBERE	Before 1970		4	14	17	●		●	●	70	A						●					●									
	6-a-18TR	MODO-MAU	Lautém	Iliomar	CAINLEU	Before 1970		34	45	40			●	●	30	C					●						●			●						●	
	6-a-19TR	IRAFOK	Lautém	Iliomar	CAINLEU	Before 1970	2007	6	20	15			●	●	30	C					●						●			●						●	
	6-a-20TR	SOROKAI	Lautém	Iliomar	CANLEU	Before 1970		16	45	15			●		20	C					●						●	●		●						●	
	6-a-21TR	Fanufuru	none	none	none	unknown		none	none	none					0	0																					
	6-a-22TR	IRALAFAI	Lautém	Lospalos	LORE I	Before 1970		16	60	52	●		●		60	B					●						●										
	6-a-23TR	Caidabada	none	none	none	unknown		none	none	none					0	0																					
	6-a-24TR	LAIVAI	Lautém	Lautém	ILILAI	Before 1970		167	80	43		●	●	●	60	B				●		●					●			●						●	
	6-a-25TR	BATAKIA	Lautém	Lautém	ILILAI	Before 1970		include"25"	150	195		●	●		40	C						●					●			●						●	
	6-a-26TR	HOCARA	Lautém	Lautem	SERELAU	Before 1970		17	100	60	●	●	●	●	90	A					●						●										
	6-a-27TR	DORIA'ARA	Lautém	Lautem	SERELAU	Before 1970		include"26"	40	25		●			20	C					●						●	●		●						●	
	6-a-28TR	CAI-CAI	Lautém	Lautem	SERELAU	Before 1970		55	20	30			●		20	C					●						●	●		●					- Vegetables	●	
	6-a-29TR	TEINARA	Lautém	Lautem	SERELAU	Before 1970		45	100	80			●		20	C					●						●			●						●	
	6-a-30TR	WARU	Lautém	Lautem	PARLAMENTO	Before 1970		17	15	25			●		20	C					●						●			●							●
	6-a-31TR	Abarata (LAU-IMI)	Lautém	Lautem	LURO	Before 1970		107	110	60		●	●	●	60	B						●				●	●			●						●	
	6-a-32TR	RAIMOKO	Lautém	Lautem	DAUDERE	Before 1970		32	25	60		●	●	●	50	C						●					●			●						●	

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	6-a-33TR	NASA	Lautém	Lautem	MAINA I	Before 1970		41	96	125	•		•	•	70	B					•						•			•	•	•	•		- Vegetables	•	
	6-a-34TR	MATARARA	Lautém	Luro	AFABUBU	Before 1970		13	10	20			•		20	C						•					•			•	•					•	
	6-a-35TR	AFANAMI	Lautém	Luro	WAIROKE	Before 1970		21	20	18		•	•		40	C						•					•										
	6-a-36TR	BUI-BUI	Lautém	Luro	WAIROKE	Before 1970		include"35"	30	61			•	•	30	C						•					•										
	6-a-37TR	TUTU	Lautém	Luro	WAIROKE	unknown		75	12	23	•		•	•	70	B						•					•										
	6-a-38TR	Motoira	none	none	none	unknown		none	none	none					0	0																				
	6-a-39TR	LUTURU	Lautém	Luro	WAIROKE	Before 1970	2007	66	90	51	•		•	•	70	B					•						•	•							•	
	6-a-40TR	IRAOMANA (IRAODAN)	Lautém	Luro	KOTAMUTU	Before 1970		21	15	30		•	•	•	50	C						•					•								•	
	6-a-41TR	Apat	none	none	none	unknown		none	none	none					0	0																				
	6-a-42TR	IRALAFANU	Lautém	Luro	LURO	Before 1970		7	15	17			•	•	30	C					•						•									
	6-a-43TR	TOBORO	Lautém	Luro	LURO	Before 1970		8	10	15			•		20	C					•						•									
	6-a-44TR	SORUVACO	Lautém	Luro	MAINA I	Before 1970		7	70	65	•		•	•	70	B						•					•									
	6-a-45TR	IPAREN	Lautém	Luro	LURO	Before 1970		4	15	15	•	•	•	•	90	A						•					•								•	
	6-a-46TR	IRAPERE (LURO)	Lautém	Luro	LURO	Before 1970		35	80	71	•		•	•	70	B					•						•	•							•	
	6-a-47TR	ADOBERE	Lautém	Luro	LURO	Before 1970		3	35	60	•	•	•	•	90	A						•					•								•	
	6-a-48TR	MIATAU	Lautém	Luro	LURO	Before 1970		10	20	22			•	•	30	C					•						•								•	
	6-a-49TR	AMAHIRA	Lautém	Luro	LURO	Before 1970		141	35	35	•	•	•	•	100	A	A100				•						•								•	
	6-a-50TR	TAUBUTI	Lautém	Luro	KOTAMUTU	Before 1970		include"49"	9	12	•	•	•	•	90	A					•						•								•	
	6-a-51TR	Too-boro	none	none	none	unknown		none	none	none					0	0																				
	6-a-52TR	KAIDAVALUN	Lautém	Luro	AFABUBU	Before 1970		28	16	25		•	•	•	50	C						•					•								•	
Liquica	1-c-1S	FAULARA	Liquiça	Maubara	LEOTELA	Before 1970	2013	60	130	200			•		20	C				•	•	•				•								- Kang kung	•	
	1-c-2S	GICU IRLELO	Liquiça	Maubara	GICU	1980s	2011	157	477	457	•		•		70	A	A100			•	•	•				•										
	1-c-3TR	MANLEKI	Liquiça	Maubara	VATUVORI	Before 1970		114	250	200		•	•		50	B				•	•	•		- Water is supply from		•					•	•			- Kang kung	•	
	1-c-4TR	GOU LOLO TELO	Liquiça	Maubara	VATUVORI	Before 1970		include"3"	none	200		•			20	C				•	•	•		- Water is supply from		•					•	•				•	
	1-c-5TR	WATU-BORO	Liquiça	Maubara	LESADILA	Before 1970		101	9	100			•	•	40	C						•		- Pond / Lake	•												
	1-c-6TR	BANETUR	Liquiça	Maubara	LEOTELA	Before 1970		27	30	150	•	•	•	•	90	A						•															
	1-c-7TR	GUGULEOR	Liquiça	Maubara	LISADITA	Before1960		227	20	200		•	•	•	60	B				•		•				•					•					•	
Manatuto	3-a-1S	Laku wen 2	Manatuto	Barique	UMA BOCO	1990s		53	10	14			•		20	C				•	•		•			•	•	•							•	
	3-a-2S	WE SUKAER HUN	Manatuto	Barique	UMA BOCO	Before 1970	2010	420	35	20			•		30	C				•	•		•			•	•	•							•	
	3-a-3S	BORA	Manatuto	Barique	UMA BOCO	Before 1970	1980	251	200	150			•		30	C				•	•		•			•	•	•		•	•	•	•	•		•	
	3-a-4S	MALARAHUN	Manatuto	MANATUTO	AILILI	Before 1970	2009	101	150	250	•	•	•	•	100	A	A100			•		•				•	•			•	•			•	- Mustard - Kang kung		•
	3-a-5S	LACLO (DUMI)	Manatuto	MANATUTO	AITEAS	Before 1970	2002	720	660	972		•	•		50	B			•			•				•	•			•	•	•	•	•	- Tomato - Mustard	•	
	3-a-6S	HATUBELA	Manatuto	MANATUTO	ILIHEU	Before 1970	2003	421	160	150		•	•	•	60	B						•				•	•			•	•	•	•	•	- Mustard - Kang kung	•	
	3-a-7TR	WE TITI	Manatuto	LALEIA	CAIRUI	Before 1970		49	20	60			•	•	30	C				•		•				•	•								•	
	3-a-8TR	WE MANU WEN	Manatuto	Barique	UMA BOCO	Before 1970	1990	include"3"	17	17			•		30	C				•	•					•	•	•								•
	3-a-9TR	WE KA NUAK	Manatuto	Barique	UMA BOCO	Before 1970	1990	86	12	24			•		20	C				•	•		•			•	•	•							•	
	3-a-10TR	WE SALUN 2	Manatuto	Barique	UMA BOCO	Before 1970		23	150	100			•		20	C				•	•		•			•	•	•							•	
	3-a-11TR	SUKAER	Manatuto	Barique	UMA BOCO	Before 1970		include"3"	100	30			•		30	C										•	•	•								
	3-a-12TR	KETIMUN	Manatuto	Barique	UMA BOCO	unknown		73	0	0			•		20	C										•	•	•								
	3-a-13TR	CACAE UMAN	Manatuto	Barique	AUBEON	Before 1970	2013	200	200	80			•		30	C				•	•		•			•	•	•							•	
	3-a-14TR	WE TANFUIK	Manatuto	Barique	UMA BOCO	2000s	2010	9	13	17			•		20	C				•	•		•			•	•	•							•	
	3-a-15TR	BILOU	Manatuto	LACLO	LACO MESAC	Before 1970	1988	26	150	200		•	•	•	50	B						•				•	•				•		•	•	- Mastard - Kang kung		
	3-a-16TR	LOWAI (LAWAI)	Manatuto	Barique	UMA BOCO	1970s		18	50	30			•		20	C										•	•	•								
	3-a-17TR	WE ULUN	Manatuto	Barique	UMA BOCO	Before 1970		28	37	25			•		20	C				•	•			- Lake (for Keepiq water)		•	•	•			•						•	
	3-a-18TR	Laku wen 1	Manatuto	Barique	UMA BOCO	1970s	2010	include"1"	50	30			•		30	C				•						•	•	•								•	
	3-a-19TR	WE LOLON WAI (META GADU)	Manatuto	Laleia	LIFAU	Before 1970	1990	15	1,000	560		•	•	•	50	B						•				•	•									•	
	3-a-20TR	KAKO'O	Manatuto	Laleia	Hatularan	Before 1970		101	50	100		•	•	•	60	B						•				•	•				•	•	•	•	- Mastard - Kang kung	•	
	3-a-21TR	COROHOCO	Manatuto	Laleia	CAIRUI	Before 1970	2010	2	40	20		•	•	•	50	B				•		•				•	•									•	
	3-a-22TR	MANULIHI LAI (RASPO)	Manatuto	Laleia	CAIRUI	Before 1970	2010	23	50	60		•		•	30	C				•		•				•	•										
	3-a-23TR	ILETI LE'EN	Manatuto	Laleia	CAIRUI	Before 1970		18	35	60				•	10	C						•				•	•										
	3-a-24TR	LIA BATE (GOBADU)	Manatuto	Laleia	CAIRUI	Before 1970	2010	10	30	40		•	•	•	50	B				•		•				•	•									•	
	3-a-25TR	BONAE	Manatuto	Laleia	CAIRUI	Before 1970		33	50	100		•		•	30	C						•				•	•				•			•	- Mastard - Kang kung	•	
	3-a-26TR	SEGAT	Manatuto	Laleia	LIFAU	Before 1970	2005-2013	79	120	63		•	•	•	50	B						•				•	•				•	•	•	•	- Mastard - Kang kung		•
	3-a-27TR	WE MAMOUT (WE MOLIT)	Manatuto	Laleia	LIFAU	Before 1970		40	0	0				•	10	C						•				•	•										
	3-a-28TR	HATOBU	Manatuto	Laleia	CAIRUI	Before 1970	2010-2013	42	100	150		•	•	•	50	B						•				•	•				•	•	•	•	- Mastard - Kang kung	•	
	3-a-29TR	NAKARAN	Manatuto	Laleia	CAIRUI	Before 1970	2010	11	20	40				•	10	C						•				•	•									•	
	3-a-30TR	HATUMADA	Manatuto	Laleia	CAIRUI	Before 1970		2	0	0		•	•	•	50	B						•				•	•										

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	3-a-31TR	BOBOSU'U	Manatuto	Laleia	CAIRUI	Before 1970	2010	11	60	40					0	C				•		•				•	•			•						•	
	3-a-32TR	SANTO	Manatuto	Laleia	LIFAU	Before 1970	1980	include"26"	30	30			•	•	40	C						•		- Water is supplyed		•	•			•	•	•	•	•			•
	3-a-33TR	MAU RAIN	Manatuto	Laleia	LIFAU	Before 1970	2003	include"27"	100	150		•	•	•	60	B						•					•										
	3-a-34TR	WE TIRAN	Manatuto	Laleia	HATURALAN	Before 1970		include"27"	0	0			•	•	40	C				•		•				•	•										
	3-a-35TR	ALE'EN	Manatuto	Laleia	HATULARAN	Before 1970		199	100	50		•	•	•	60	B				•		•				•	•			•						•	
	3-a-36TR	WE NOREN LIRUS	Manatuto	MANATUTO	HATURALAN	Before 1970	2010	2	60	50		•	•	•	50	B						•				•	•			•	•			•		•	
	3-a-37TR	WE NOREN AHAK	Manatuto	LALEIA	HATURALAN	Before 1970		38	150	100		•	•	•	50	B				•		•				•	•										
	3-a-38TR	BOLUTO	Manatuto	LALEIA	Hatularan	Before 1970		include"35"	50	13		•	•	•	60	B				•		•				•	•			•						•	
	3-a-39TR	MATO	Manatuto	LALEIA	LIFAU	Before 1970	1994	include"35"	150	100		•	•	•	60	B				•		•				•	•			•						•	
	3-a-40TR	LALOSAN	Manatuto	LALEIA	HATULARAN	Before 1970		include"35"	24	21		•	•	•	60	B				•		•				•	•			•						•	
	3-a-41TR	ANA KIAK	Manatuto	LALEIA	LIFAU	1970s		include"26"	50	27		•	•	•	60	B				•		•				•	•			•						•	
	3-a-42TR	MABELEN	Manatuto	LACLO	LACO MESAC	Before 1970	2012	113	350	100			•		30	C						•				•	•			•	•	•	•		- Mastard - Kang kung	•	
	3-a-43TR	REBUTIKEO	Manatuto	LACLO	UMA KADUAK	Before 1970		20	60	48	•	•	•	•	90	A					•	•					•			•	•		•	•		•	
	3-a-44TR	MALOROK (Wer Merak +	Manatuto	LACLO	LACO MESAC	Before 1970		51	200	70	•		•	•	70	A		A50				•				•	•			•	•		•	•	- Palm Tree	•	
	3-a-45TR	KILAUN	Manatuto	LACLO	UMA NARUK	Before 1970		8	40	12		•	•	•	50	B						•					•			•						•	
	3-a-46TR	LAUTA	Manatuto	LACLO	UMA NARUK	Before 1970		44	120	100		•	•	•	50	B						•				•	•			•	•			•	- Mastard - Kang kung	•	
	3-a-47TR	BISOROK	Manatuto	LACLO	LACO MESAC	Before 1970		55	200	150		•	•	•	50	B						•				•	•			•						•	
	3-a-48TR	IBABAK RALAN	Manatuto	MANATUTO	ILIHEU	Before 1970	1992	121	150	200		•	•	•	60	B						•				•	•			•	•	•	•	•	- Mastard - Kang kung	•	
	3-a-49TR	BUBRAMOS	Manatuto	LACLO	LACO MESAC	Before 1970		6	15	6		•	•	•	50	B						•				•	•	•		•	•			•	- Chili Pepper	•	
	3-a-50TR	Bereolok	none	none	none	unknown		none	none	none					0	0																				
	3-a-51TR	LAWERI	Manatuto	Laclo	LACU MESAC	Before 1970	2011	15	25	20	•	•	•	•	90	A				•		•				•	•			•	•	•	•	•	- Kang kung - Mustard	•	
	3-a-52TR	HATUKONAN (Lai Teri)	Manatuto	LACLO	LACO MESAK	Before 1970		15	100	40	•	•	•	•	90	A				•		•				•	•			•					- Kang kung - Mustard	•	
	3-a-53TR	ARADU	Manatuto	LACLO	LACO MESAC	Before 1970		80	50	15	•	•	•	•	90	A		A50			•		•	- Pond			•	•		•	•					•	
	3-a-54TR	Laclo	none	none	none	unknown		none	none	none					0	0																				
	3-a-55TR	PONTE OKOS SAU	Manatuto	MANATUTO	SAU	Before 1970	2004	120	50	70	•	•	•	•	100	A	A100			•		•				•	•			•	•		•	•	- Mastard - Kang kung	•	
	3-a-56TR	LABAUN WAI	Manatuto	LACLO	LACO MESAC	Before 1970	2010	723	450	50		•	•	•	60	B					•	•	•	- Water is supplyed		•	•	•		•	•	•	•	•	- Mastard - Kang kung	•	
Manufahi	2-a-1TC	CARA-ULUN	Manufahi	Same	BETANO	2010s	2013	850	2,196	1,500		•	•		50	B			•			•			•	•	•			•						•	
	2-a-2S	WELALA	Manufahi	Same	LETEFOHO	unknown		17	164	60		•	•	•	50	B				•		•				•	•			•	•					•	
	2-a-3S	COLOKO	Manufahi	Same	LEKFOHO	2010s	2013	122	2,196	1,500		•	•		50	B			•			•				•	•			•	•	•				•	
	2-a-4S	SAHEN	Manufahi	Fatuberlio	CLOCUC	2000s		166	300	500		•	•		50	B				•		•				•	•	•		•						•	
	2-a-5S	AKADIRUHUN	Manufahi	Same	LEKFOHO	2010s	2013	include "3"	2,196	1,500		•	•		50	B			•			•					•			•	•	•				•	
	2-a-6TR	KAKEU LULIK	Manufahi	Same	BETANO	1990s		91	60	65			•		20	C				•	•						•	•		•	•					•	
	2-a-7TR	BESUSU	Manufahi	Alas	MOUBERLOIK	2010s		13	20	200					0	C				•	•	•					•			•						•	
	2-a-8TR	LAFAEK HASAN	Manufahi	Alas	DOFIK	unknown		35	500	97			•		20	C			•		•						•	•		•	•					•	
	2-a-9TR	SENT BOOT	Manufahi	Same	DAISNA	2000s		25	200	250		•	•		40	C				•		•					•	•		•	•					•	
	2-a-10TR	WELOLO	Manufahi	Alas	WEBEREK	Before 1970		140	300	125		•	•	•	60	B				•		•					•			•	•					•	
	2-a-11TR	CLERE	Manufahi	Fatuberlio	CAICASA	2010s		73	200	200		•	•	•	50	B				•		•					•			•	•					•	
Viqueque	5-a-1TC	KOMOLI	Viqueque	Uatucarbau	WANIUMA	2000s		347	300	404			•		30	C			•			•			•	•	•			•							•
	5-a-2TC	UATOLARI I	Viqueque	Watlari	MATAHOI	1990s		1030	86	112	•	•	•		90	A	A100		•		•	•			•	•	•			•							•
	5-a-3TC	UATOLARI II	Viqueque	Watlari	MATAHOI	1990s		include"2"	51	65	•	•	•		80	A	A100			•	•	•			•	•	•			•							•
	5-a-4TC	UATOLARI III	Viqueque	Uatulari	AFALOICAI LILTAME	2010s	2011	include"2"	1,400	6,900	•	•	•		80	A	A100			•		•			•	•	•			•							•
	5-a-5TC	WAI EULAI	Viqueque	Ossu	OSSU DE CIMA	1980s		82	380	32		•	•		40	C				•	•					•	•	•		•							•
	5-a-6S	BAIDUBU	Viqueque	Uatucarbau	IRABIN DETAZO	2000s		240	500	400		•	•	•	60	B			•			•				•	•			•							•
	5-a-7S	SAKETO	Viqueque	Watlari	MATAHOI	1990s		412	86	112	•	•	•		90	A	A100		•			•			•	•	•			•							•
	5-a-8S	BIKALIU	Viqueque	Ossu	UAGEIA	2000s		50	109	396	•	•	•	•	90	A		A50		•	•	•			•	•	•			•						•	
	5-a-9S	WETODO	Viqueque	Viqueque	LUCA	2010s	2013	412	425	42			•		30	C				•	•	•					•	•		•						•	
	5-a-10S	CAELARAN	Viqueque	Viqueque	BAHALARAWA'IN	2010s	2012	include"9"	106	150		•	•		50	B				•	•	•				•	•			•						•	
	5-a-11TR	HAETALAS	Viqueque	Lacluta	DILOR	2010s		60	127	200		•			20	C				•	•	•					•			•						•	
	5-a-12TR	WE CLOUK	Viqueque	Lacluta	DILOR	unknown		103	160	228		•	•	•	60	B				•		•					•			•						•	
	5-a-13TR	AETARA	Viqueque	Lacluta	AHAI	2010s		61	200	97		•	•	•	50	B				•		•					•			•						•	
	5-a-14TR	TAHUKMER	Viqueque	Lacluta	DILOR	unknown		7	27	34		•	•	•	50	B				•		•					•			•						•	
	5-a-15TR	WELAFUA	Viqueque	Lacluta	DILOR	unknown		29	140	50		•	•		40	C				•	•						•			•						•	
	5-a-16TR	none	none	none	none	unknown		none	none	none					0	0																				
	5-a-17TR	WATUCUSI	Viqueque	Uatucarbau	WANIUMA	2000s		include"17"	100	37			•		30	C				•		•				•	•			•							•
	5-a-18TR	IRABERE MANUKAI A	Viqueque	Uatucarbau	IRABIN DESIMA	2000s		98	364	218		•	•		40	C				•	•	•				•	•			•						•	
	5-a-19TR	IRABERE CHIAICAI	Viqueque	Uatucarbau	IRABIN DESIMA	unknown		8	20	15		•	•	•	50	B				•	•	•					•			•						•	
	5-a-20TR	WAIDASU	Viqueque	Uatucarbau	BATATA	unknown		31	76	77		•	•		40	C				•	•						•			•						•	

District	Ref. No.	Scheme	Distruct	Sub-dis.	Suco	Scheme history		Actual Area(ha)	Original Area(ha)	House hold	Problem				Point	Evalation	Priority with area size		WUA/WG		Water source				Kind of structure					Kind of Agricultural production.						Times of Rice	
						Const. yr	Rehab. yr				Short. of water / Obstr. of water	Prob. of intake and keeping water lev.	Damage of stru.	Flood effect			≧100ha	≧50ha	WUA	WG	Spring	River	well	Others	Weir	Intake	Canal	Pond/Lake	Others	Rice	Maize	Beans	Cassava	Potato	Others	once	twice
	5-a-21TR	IRABERE NABO	Viqueque	Uatucarbau	IRABIN DESIMA	2000s		include"21"	364	218		●	●		50	B				●	●	●				●	●			●						●	
	5-a-22TR	NUBERE	Viqueque	Uatucarbau	LUIULU	unknown		92	95	779		●	●		40	C				●		●			●	●			●						●	
	5-a-23TR	OUTOKU	Viqueque	Watlari	VESSORU	Before 1970		282	367	1,783		●	●	●	60	B				●	●	●				●			●						●	
	5-a-24TR	SURILALE	Viqueque	Watlari	VESSURO	Before 1970		include"23"	367	1,783		●	●	●	50	B				●	●	●				●			●						●	
	5-a-25TR	IRATOKORO	Viqueque	Watlari	BABULU	2000s		40	80	68	●	●	●	●	90	A				●		●				●			●						●	
	5-a-26TR	DARADAU	Viqueque	Watlari	VESSURO	Before 1970		include"23"	367	1,783		●	●	●	60	B				●	●	●				●			●						●	
	5-a-27TR	SALERE MATAHOI	Viqueque	Watlari	MATAHOI	unknown		252	112	78		●	●	●	60	B				●	●	●				●			●						●	
	5-a-28TR	MOA EMI	Viqueque	Ossu	OSSURUA	2000s		65	334	411		●			20	C				●	●	●				●			●						●	
	5-a-29TR	none	none	none	none	unknown		none	none	none					0	0																				
	5-a-30TR	FUTUDU	Viqueque	Ossu	UABUBU	1990s		39	34	78	●	●	●		80	A				●	●	●				●			●						●	
	5-a-31TR	none	none	none	none	unknown		none	none	none					0	0																				
	5-a-32TR	RAUMATA	Viqueque	Ossu	UAGEIA	unknown		76	37	67		●	●	●	50	B				●		●				●			●						●	
	5-a-33TR	HAENAO	Viqueque	Ossu	OSSURUA	2010s		57	50	52		●	●	●	50	B				●	●	●				●			●						●	
	5-a-34TR	HUKALALE	Viqueque	Ossu		unknown		include"33"	70	103			●		30	C				●	●	●				●			●						●	
	5-a-35TR	KUAN LOLIK	Viqueque	Viqueque	LUCA	1990s		include"9"	50	47			●		30	C				●						●	●		●						●	
	5-a-36TR	QUADEKUN	Viqueque	Viqueque	BAHALARAWAIN	2010s		114	88	150		●	●		50	B				●		●				●			●						●	
	5-a-37TR	WEDARE	Viqueque	Viqueque	LUCA	unknown		include"9"	100	46			●		30	C				●	●					●			●						●	
	5-a-38TR	AEDAK TUR KAKELILIAN	Viqueque	Viqueque	LUCA	unknown		42	20	26		●	●		40	C				●		●				●			●						●	
	5-a-39TR	FEHUK FUI	Viqueque	Viqueque	LUCA	unknown		56	107	87			●		20	C				●	●					●	●		●						●	
	5-a-40TR	BUKU	Viqueque	Viqueque	LUCA	unknown		272	612	18		●	●		50	B				●		●				●			●						●	
	5-a-41TR	WELAKU BEIN	Viqueque	Viqueque	BAHALARAWAIN	2010s	2012	include"36"	124	165		●	●		50	B				●		●			●	●			●						●	
	5-a-42TR	NAHAK SADIK	Viqueque	Lacluta	DILOR	2010s		39	30	22		●		●	30	C				●		●				●			●						●	
	5-a-43TR	BOKAWEN OAN	Viqueque	Viqueque	LUCA	unknown		include"39"	107	87			●		30	C				●	●					●	●		●						●	
Oecusse	7-a-1TC	TONO	Oecusse	Pante Macassar	CUNHA	1980s	2007	37	15	100	●	●	●	●	90	A			●			●			●	●	●			●						●	
	7-a-2TC	BARASANTO	Oecusse	Pante Macassar	LALISUK	1970s	2012	147	35	45			●	●	30	C			●		●					●	●	●		●							●
	7-a-3TC	FATUSENE	Oecusse	Pante Macassar	LALISULI	1970s		Include"2"	725	84			●		20	C			●		●					●	●	●									●
	7-a-4TC	BETHANAE	Oecusse	Pante Macassar	CUNHA	1980s		18	10	47			●		20	C				●	●	●				●	●			●							●
	7-a-5TC	KOLAN SINA	Oecusse	Pante Macassar	Lifau	Before 1970	2003	33	24	150			●	●	40	C				●		●					●	●		●							●
	7-a-6TC	OE-LEO	Oecusse	Pante Macassar	LALISUK	1980s		26	45	76			●		20	C				●	●						●	●		●				- Kang Kung - Mustard		●	
	7-a-7TC	NAKTUKA	Oecusse	Nitibe	BENUFE	1970s		118	1000	79				●	10	C			●		●					●	●	●		●						●	
	7-a-8TC	OE-COLO	Oecusse	Pante Macassar	LALISULI	Before 1970	2001	19	18	40			●		20	C				●	●						●	●		●							●
	7-a-9TC	OE MAT-HITU	Oecusse	Pante Macassar	LALISULI	1970s		1	55	84			●		20	C			●		●					●	●	●							●	
	7-a-10S	BITANA	Oecusse	Oesilo	USITASAE	1990s		9	2	60	●		●		60	B				●		●				●	●	●		●	●					●	
	7-a-11S	BITOPA	Oecusse	Oesilo	USITESAE	1980s	2010	14	86	62			●	●	30	C			●			●					●			●							●
	7-a-12S	SOMNASE	Oecusse	Pante Macassar	CUNHA	Before 1970		62	15	180			●	●	40	C				●		●					●			●						●	
	7-a-13S	TONO LEFT SIDE	Oecusse	Pante Macassar	LALISUK	Before 1970	2007	94	2060	75			●	●	30	C				●		●					●			●							●
	7-a-14S	SOBEDAM	Oecusse	Pante Macassar	CUNHA	Before 1970		8	15	36			●	●	30	C				●		●					●	●		●						●	
	7-a-15S	Oe-nitas	Oecusse	Pante Macassar	LASILU	1990s	2003	54	26	57			●	●	30	C				●	●						●	●		●							●
	7-a-16S	MASIANA	Oecusse	Pante Macassar	LASILU	1970s	2002	6	40	42	●		●		60	B				●	●						●	●		●							●
	7-a-17S	NOEBESI	Oecusse	Nitibe	LELAUFE	2000s		3	12	190			●	●	40	C			●			●					●			●							●
	7-a-18S	Oemat	Oecusse	Pante Macassar	LALISULI	1980s		45	55	30	●		●		60	B				●	●	●					●	●		●						●	
	7-a-19S	KAKATUA	Oecusse	Pante Macassar	LIFAU	1970s	1998	115	100	80			●		20	C			●		●					●	●			●						●	
	7-a-20S	NIANAPU	Oecusse	Oesilo	Bobometo	Before 1970	2013	48	2	78				●	10	C			●			●					●			●						●	
	7-a-21S	MAILU	Oecusse	Pante Macassar	CUNHA	Before 1970		7	28	26			●	●	30	C				●	●						●	●		●						●	
	7-a-22S	KAUNFUI	Oecusse	Pante Macassar	LALISUK	1970s	2002	21	70	75			●	●	30	C			●		●					●	●	●		●						●	
	7-a-23S	BAHNONO	Oecusse	Pante Macassar	LALISUK	Before 1970		218	10	32			●	●	30	C				●	●	●				●	●	●		●						●	
	7-a-24S	LETEFOHO	Oecusse	Pante Macassar	LALISULI	Before 1970		3	7	18			●		20	C				●	●						●	●		●						●	
	7-a-25S	SAMNAS	Oecusse	Nitibe	SUNUFE	1980s		34	30	100			●		30	C			●			●					●			●						●	
	7-a-26S	OE-HAUKEE	Oecusse	Pante Macassar	COSTA	2000s	2010	18	2	44			●		20	C				●		●					●	●		●		●			- Tomato - Carrots		●

# of Irrigation scheme								Area	Ori. Area																													
Total	**425**							**34,359**	**66,501**																													
								(ha)	(ha)																													

Iriigation scheme	# of A	# of B	# of C	# of A100	# of A50
	74	**156**	**195**	**29**	**6**
	↓			↓	
	Long List			Short List	

Data Sheet for Each Irrigation scheme

1. Aileu
2. Ainaro
3 .Baucau
4. Bobonaro
5. Cova Lima
6. Dili
7. Ermera
8. Lautém
9. Liquiçà
10. Manatuto
11. Manufahi
12. Viqueque
13. Oecusse

1. Aileu

District : Aileu Irrigation scheme : BANDERHUN 1-b-1TC

1	No.		1
2	Date of Survey		5/12/2013
3	Name of Irrigation scheme		BANDERHUN
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		LIURAI
	Name of Aldeia		FATULIMAU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	✓
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	778781
		Y=	9031070
	Grid reference in Irr. scheme except for above facility	X=	779173
		Y=	9031115
7	What kind of structure?	Weir	✓
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	5.50
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	1
	/ If Canal→	Length of main	1,600
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		30
10	Original or planned irrigation area (ha)		52.0
11	Original constructed year	Year's	1990s
		Exact year	1999
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	✓
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	✓
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- The weir is under constrution at the moment of the survey. - From July to September, water becomes short. - There is not budget for WUA's maintenance activities.		

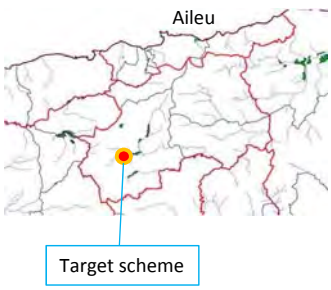
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) -		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : FATUBOSA 1-b-2S

1	No.		2
2	Date of Survey		6/12/2013
3	Name of Irrigation scheme		FATUBOSA
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		FATUBOSA
	Name of Aldeia		FATUBOSA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	780276
		Y=	9025854
	Grid reference in Irr. scheme except for above facility	X=	781323
		Y=	9026905
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	8.0
		Height(m)=	1.20
		Width/1span (m)=	0.45
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	450
		Width(m) for typical	0.50
		Height(m)=	0.15
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		36
9	Actual irrigation area (ha)		54
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	1980s
		Exact year	1985
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	-Up of hill: spring
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	✓
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		✓ - Workers cannot go to the
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Same as contact person
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need a gate to control the stream. - Scheme is located at high position and it causes unsufficient water supply to the paddy field. - Farmers do second cropping but it depends on the weather condition. the flood cause the damage to crops reason for no incomes		

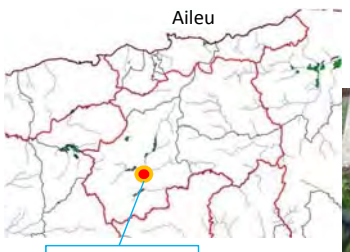
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- Maintenance cost is
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	- Maintenance cost is
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	90
Evaluation of degree on immediate treatment			A/A50

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu　　Irrigation scheme : SARIN　　1-b-3S

1	No.		3
2	Date of Survey		8/12/2013
3	Name of Irrigation scheme		SARIN
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		BANDUDATO
	Name of Aldeia		RAIFUSSA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	781072.5
		Y=	9031288.19
	Grid reference in Irr. scheme except for above facility	X=	782840
		Y=	9031527
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	287
		Width(m) for typical	2.00
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		58
9	Actual irrigation area (ha)		51
10	Original or planned irrigation area (ha)		45.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Domingos
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			12
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

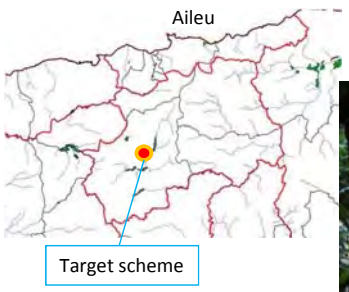
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	**50**
-		
Evaluation of degree on immediate treatment		**B**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : SELOI CRAIK 1-b-4TR

1	No.		4
2	Date of Survey		8/12/2013
3	Name of Irrigation scheme		SELOI CRAIK
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		SELOI CRAIK
	Name of Aldeia		LALIFORLEU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	779663
		Y=	9037629
	Grid reference in Irr. scheme except for above facility	X=	778945
		Y=	9037210
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	32.0
		Height(m)=	2.50
		Width/1span (m)=	25.00
		Number of span =	1
		Number of gates=	0
	/ If Intake→	Length(m)=	23.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	2.20
		Number of gates=	0
	/ If Canal→	Length of main	300
		Width(m) for typical	1.30
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		90
9	Actual irrigation area (ha)		37
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	1990s
		Exact year	1991
		Rehabilitated year	2009
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	✓
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	✓
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Same as contact
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

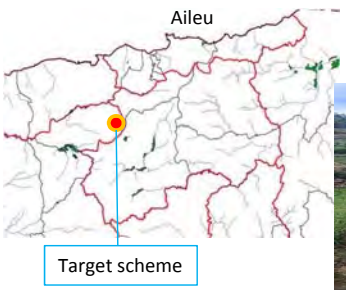
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●

Size of area (10 pts, more than 100ha)	Total Points	70
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : AISIRMO 1-b-5TR

1	No.		5
2	Date of Survey		6/12/2013
3	Name of Irrigation scheme		AISIRMO
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		AISIRMO
	Name of Aldeia		BIRKATI
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	784688
		Y=	9037651
	Grid reference in Irr. scheme except for above facility	X=	784569
		Y=	9036915
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	3.00
		Height(m)=	0.50
		Number of span =	2
		Width/1span (m)=	0.65
		Number of gates=	2
	/ If Canal→	Length of main	80
		Width(m) for typical	0.65
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		65
9	Actual irrigation area (ha)		30
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	2000s
		Exact year	2009
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scene ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		✓ - Workers cannot go
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			15
	a-3) Name of representative of WG or WUAs			- Same as contact
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers do second cropping but it depends on the weather condition. - There is no budget for WUA's maintenance activities.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	- No rehabilitation
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 150,000 - Reliefing of damage
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

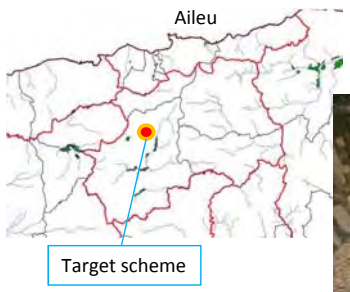
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	**90**
-		
Evaluation of degree on immediate treatment		**A**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu　　Irrigation scheme : FAHIRIA　　1-b-6TR

1	No.		6
2	Date of Survey		6/12/2013
3	Name of Irrigation scheme		FAHIRIA
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		FAHIRIA
	Name of Aldeia		SIDOLI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	784537.95
		Y=	9035356.73
	Grid reference in Irr. scheme except for above facility	X=	784400
		Y=	9035166
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	20
		Width(m) for typical	0.85
		Height(m)=	0.25
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		20
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	1980s
		Exact year	1984
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	✓
		(Reason)	- Workers cannot go
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		3
	a-3) Name of representative of WG or WUAs		- Same as contact
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	✓
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		- During the Indonesian Time the water supply was good and farmers did second cropping.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - No rehabilitation
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

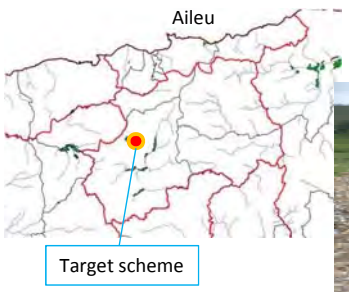
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	**90**
-		
Evaluation of degree on immediate treatment		**A**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : SABORIA 1-b-7TR

1	No.		7
2	Date of Survey		6/12/2013
3	Name of Irrigation scheme		SABORIA
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		Saboria
	Name of Aldeia		Saboria
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	784811
		Y=	9036206
	Grid reference in Irr. scheme except for above facility	X=	784770
		Y=	9036135
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	1.80
		Number of gates=	2
	/ If Canal→	Length of main	125
		Width(m) for typical	0.75
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		82
9	Actual irrigation area (ha)		15
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	2010s
		Exact year	2012
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	✓
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Mariano da Silva
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase %	
		Increase for years	
		Decrease %	
		Decrease for years	
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	✓
		Others	
	a-7) How often are the meeting held in a year?		12
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Fences to protect intake are needed. The cost is aprox. $150,000 to $200,000 to built new one.	
		the flood and the Dry season cause the damage reason for no incomes	

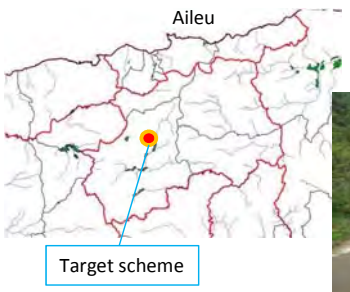
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 200,000
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Canal is bolocked
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	90
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : DAUBUTIMRI 1-b-8TR

1	No.		8
2	Date of Survey		8/12/2013
3	Name of Irrigation scheme		DAUBUTIMRI
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		LEVOIA
	Name of Aldeia		BANDERHUN
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	780340
		Y=	9031571
	Grid reference in Irr. scheme except for above facility	X=	780532
		Y=	9031562
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	1.50
		Height(m)=	1.50
		Number of span =	1
		Width/1span (m)=	1.20
		Number of gates=	1
	/ If Canal→	Length of main	350
		Width(m) for typical	1.20
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		58
9	Actual irrigation area (ha)		12
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	✓ - Need to build a
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 100,000
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Ely Dias Gomes
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Fences to divert water and protect the Intake are needed. - There is a Milling Group and they need a new milling machine to increased the production.		

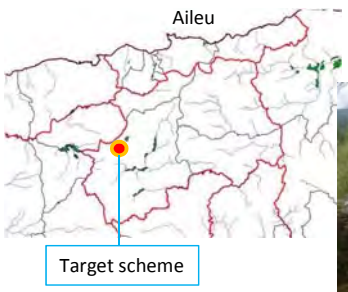
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	

Size of area (10 pts, more than 100ha)	Total Points	60
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Aileu Irrigation scheme : BOBULOLI 1-b-9TR

1	No.		9
2	Date of Survey		8/12/2013
3	Name of Irrigation scheme		BOBULOLI
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		MALERE
	Name of Aldeia		LEOTBOURO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	782436
		Y=	9033648
	Grid reference in Irr. scheme except for above facility	X=	782439
		Y=	9033570
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	70
		Width(m) for typical	1.20
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		18
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		✓
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		✓ - Irrigation scheme is
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- There is no water users group because irrigatin scheme is not functional. - Farmers do second cropping but it depends on the weather condition.		

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	✓
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

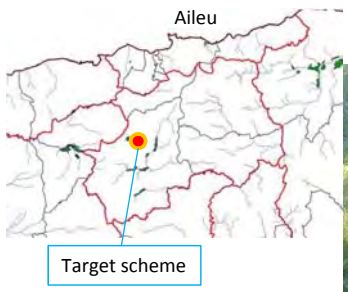
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			●

Size of area (10 pts, more than 100ha)	Total Points	**50**
-		
Evaluation of degree on immediate treatment		**B**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

2. Ainaro

District : Ainaro Irrigation scheme : RAIBERE 2-c-1S

1	No.		1
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		RAIBERE
4	Name of District		Ainaro
	Name of Sub-district		Hato-Udo
5	Name of Suco		LEOLIMA
	Name of Aldeia		GULAU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	781001
		Y=	8999011
	Grid reference in Irr. scheme except for above facility	X=	782380
		Y=	8994875
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		287
9	Actual irrigation area (ha)		101
10	Original or planned irrigation area (ha)		245.0
11	Original constructed year	Year's	2010s
		Exact year	2014
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- Under construction
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Canal is blocked.
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	**90**
Evaluation of degree on immediate treatment			**A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : KOILOE 2-c-2S

1	No.		2
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		KOILOE
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		MANUTASI
	Name of Aldeia		RK 4
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	777419
		Y=	9008427
	Grid reference in Irr. scheme except for above facility	X=	778128
		Y=	9007774
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	0.70
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		504
9	Actual irrigation area (ha)		38
10	Original or planned irrigation area (ha)		75.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	40
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : MAU-ULU 2-c-3S

1	No.		3
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		MAU-ULU
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		AINARO
	Name of Aldeia		AINARO
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	773224.41
		Y=	9007307.36
	Grid reference in Irr. scheme except for above facility	X=	774188
		Y=	9006195
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	0.50
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		270
9	Actual irrigation area (ha)		40
10	Original or planned irrigation area (ha)		47.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow or	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) -	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : LUAN KADOE 2-c-4S

1	No.		4
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		LUAN KADOE
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		CASSA
	Name of Aldeia		LEO LIMA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	780005
		Y=	8989206
	Grid reference in Irr. scheme except for above facility	X=	779201
		Y=	8986886
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main canal(m)=	1,000
		Width(m) for typical sec.=	1.20
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		69
10	Original or planned irrigation area (ha)		71.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete structure)	
		Weir (Wooden structure)	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow or
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishment year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : KAKEULAKU 2-c-5TR

1	No.		5	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		21/12/2013			(Frequency)	Every year	
3	Name of Irrigation scheme		KAKEULAKU				A few in 5 years	✓
4	Name of District		Ainaro				A few in 10 years	
	Name of Sub-district		Ainaro			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		CASSA				Climate change (decrease of river flow or	
	Name of Aldeia		LEOLIMA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	778638.24				Damage to irrigation structure	
		Y=	8984275.38				Others	
	Grid reference in Irr. scheme except for above facility	X=	779176			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8982618			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes		✓
		Intake				No		
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?	WUAs		
		Others				Traditional WG		✓
	/ If Weir→	Length(m)=				Others		
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of gates=				No		
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes		
	/ If Canal→	Length of main	1,000			No		
		Width(m) for typical	1.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		350			Gate maintenance		
9	Actual irrigation area (ha)		288			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		629.0			Canal Rehabilitation		
11	Original constructed year	Year's	2010s			Others		
		Exact year	2013		a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee	- Scheme is under construction.		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

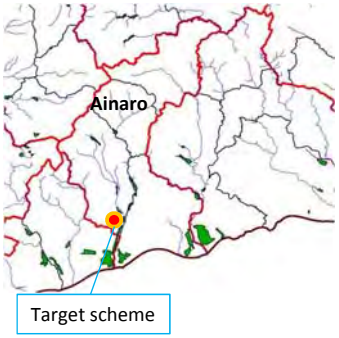
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	90
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : PAULATA 2-c-6TR

1	No.		6
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		PAULATA
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		CASSA
	Name of Aldeia		CASAMAU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	778435
		Y=	8996898
	Grid reference in Irr. scheme except for above facility	X=	778455
		Y=	8996611
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,000
		Width(m) for typical	0.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		200
9	Actual irrigation area (ha)		22
10	Original or planned irrigation area (ha)		27.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

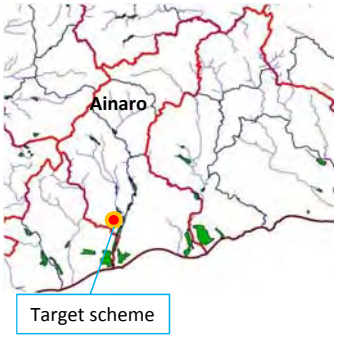
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : AKADIRU KEDE 2-c-7TR

1	No.		7
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		AKADIRU KEDE
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		CASSA
	Name of Aldeia		LEOLIMA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	780005
		Y=	8989208
	Grid reference in Irr. scheme except for above facility	X=	779909
		Y=	8989889
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,000
		Width(m) for typical	1.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		350
9	Actual irrigation area (ha)		27
10	Original or planned irrigation area (ha)		629.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	

Size of area (10 pts, more than 100ha)	Total Points	80
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : LIAS 2-c-8TR

1	No.		8
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		LIAS
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		CASSA
	Name of Aldeia		LIAS
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	778563
		Y=	8992245
	Grid reference in Irr. scheme except for above facility	X=	778660
		Y=	8991914
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,300
		Width(m) for typical	0.50
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		38
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	✓
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : Luan Kadoi 2-c-9TR

1	No.		9
2	Date of Survey		
3	Name of Irrigation scheme		Luan Kadoi
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		unknown
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

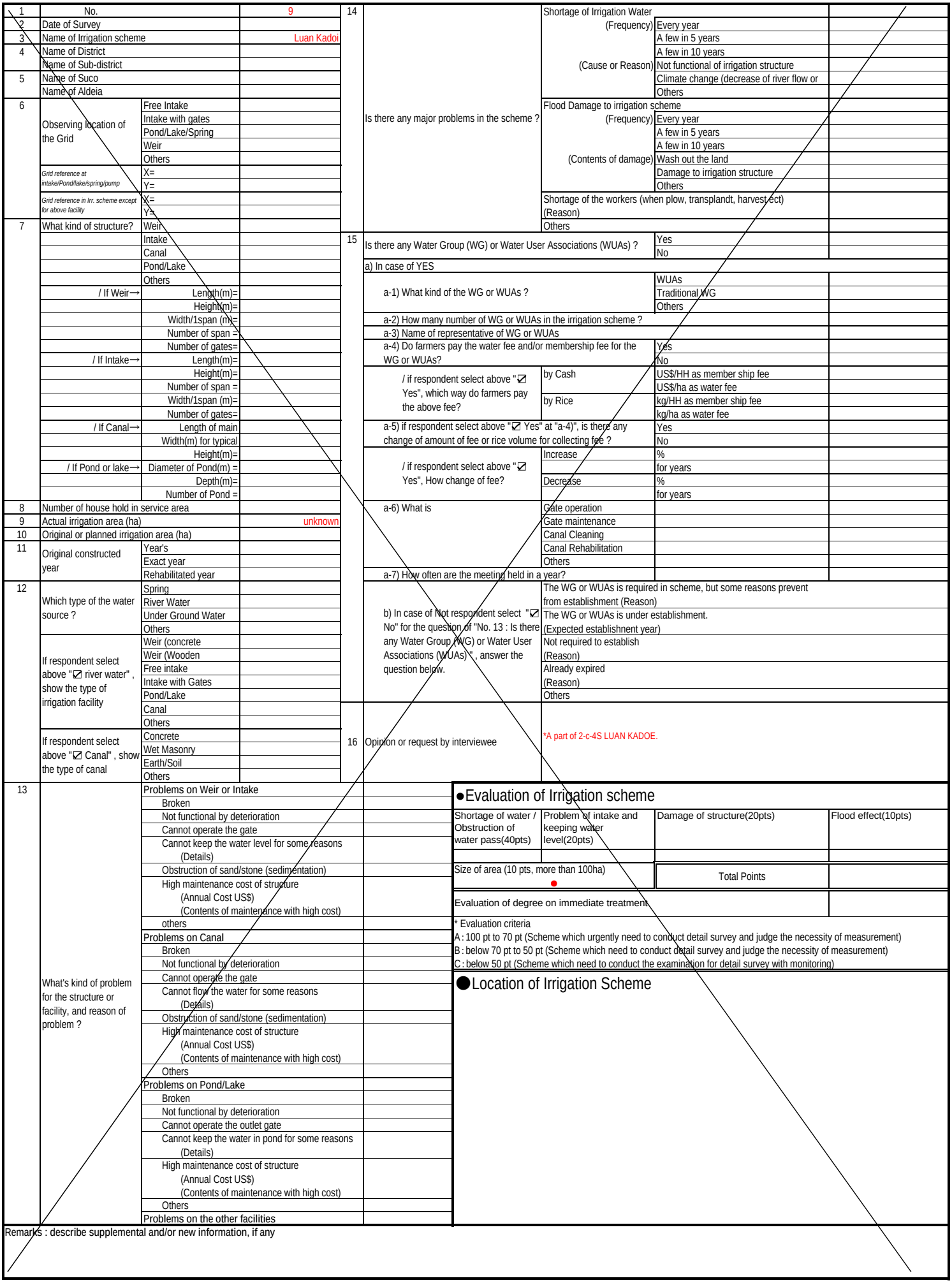
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) \" , answer the question below.		The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
			The WG or WUAs is under establishment. (Expected establishnent year)	
			Not required to establish (Reason)	
			Already expired (Reason)	
			Others	
16	Opinion or request by interviewee		*A part of 2-c-4S LUAN KADOE.	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : BONUK 2-c-10TR

1	No.		10
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		BONUK
4	Name of District		Ainaro
	Name of Sub-district		Hato-Udo
5	Name of Suco		LEOLIMA
	Name of Aldeia		LEOLIMA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	778599.79
		Y=	8984375.06
	Grid reference in Irr. scheme except for above facility	X=	779176
		Y=	8982618
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		300
9	Actual irrigation area (ha)		include "5"
10	Original or planned irrigation area (ha)		900.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- Under construction
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	**90**
Evaluation of degree on immediate treatment			**A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : AIDAKLARAN 2-c-11TR

1	No.		11
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		AIDAKLARAN
4	Name of District		Ainaro
	Name of Sub-district		Hato-Udo
5	Name of Suco		LEOLIMA
	Name of Aldeia		GULAU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	781001
		Y=	8999011
	Grid reference in Irr. scheme except for above facility	X=	782380
		Y=	8994877
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		287
9	Actual irrigation area (ha)		include "1"
10	Original or planned irrigation area (ha)		245.0
11	Original constructed year	Year's	2010s
		Exact year	2014
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- Under construction
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Canal is blocked.
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

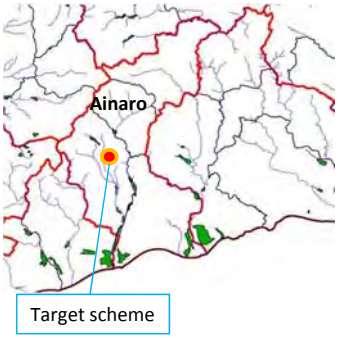
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	

Size of area (10 pts, more than 100ha)	Total Points	90
●		

Evaluation of degree on immediate treatment: **A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : BOBE 2-c-12TR

1	No.		12
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		BOBE
4	Name of District		Ainaro
	Name of Sub-district		Hato-Udo
5	Name of Suco		LEOLIMA
	Name of Aldeia		LEOLIMA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	793045
		Y=	8987188
	Grid reference in Irr. scheme except for above facility	X=	793047
		Y=	8987066
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	500
		Width(m) for typical	0.60
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		800
9	Actual irrigation area (ha)		388
10	Original or planned irrigation area (ha)		1,190.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

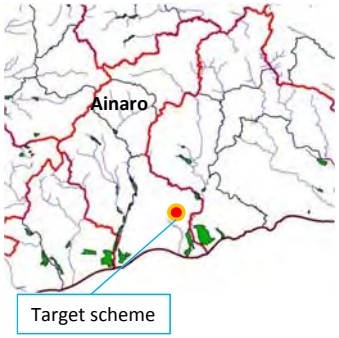
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : BUIRUBU 2-c-13TR

1	No.		13
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		BUIRUBU
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		FOHO AILICO
	Name of Aldeia		FOHO AILICO
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	794126
		Y=	8995201
	Grid reference in Irr. scheme except for above facility	X=	794291
		Y=	8995127
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	0.55
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		51
9	Actual irrigation area (ha)		85
10	Original or planned irrigation area (ha)		31.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

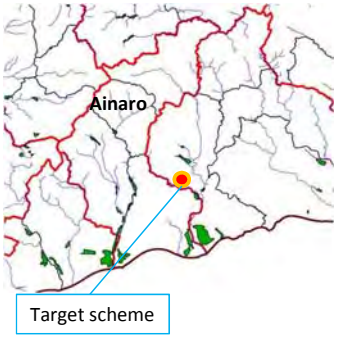
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	40
-		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : BUIHA 2-c-14TR

1	No.		14
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		BUIHA
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		SURU KARAIK
	Name of Aldeia		AILAU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	781925
		Y=	8992928
	Grid reference in Irr. scheme except for above facility	X=	781161
		Y=	8992285
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	0.50
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		196
9	Actual irrigation area (ha)		36
10	Original or planned irrigation area (ha)		125.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : HATUMERA 2-c-15TR

1	No.		15
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		HATUMERA
4	Name of District		Ainaro
	Name of Sub-district		Ainaro
5	Name of Suco		Ainaro
	Name of Aldeia		Ainaro
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	772882
		Y=	9006818
	Grid reference in Irr. scheme except for above facility	X=	773374
		Y=	9006714
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	320
		Width(m) for typical	0.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		16
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

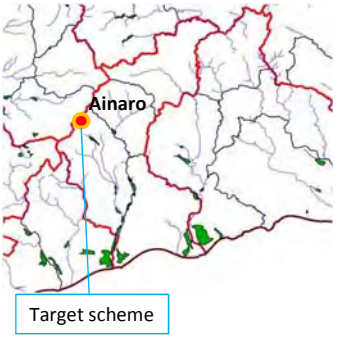
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) -	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : Mausuka 2-c-16TR

1	No.		16	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey					(Frequency)	Every year	
3	Name of Irrigation scheme		Mausuka				A few in 5 years	
4	Name of District						A few in 10 years	
	Name of Sub-district					(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco						Climate change (decrease of river flow or	
	Name of Aldeia						Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=					Damage to irrigation structure	
		Y=					Others	
	Grid reference in Irr. scheme except for above facility	X=				Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=				(Reason)		
7	What kind of structure?	Weir				Others		
		Intake		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Canal					No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical					No	
		Height(m)=			/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area				a-6) What is	Gate operation		
9	Actual irrigation area (ha)		unknown			Gate maintenance		
10	Original or planned irrigation area (ha)					Canal Cleaning		
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) ", answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee	* Sureyers could not go to the site due to difficult accessibility such as heavy rain, high river depth, bad raod condition.		
		Wet Masonry						
		Earth/Soil						
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) ●		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Ainaro Irrigation scheme : KAKEULAKU 2-c-Add-1

1	No.		17
2	Date of Survey		21/12/2013
3	Name of Irrigation scheme		KAKEULAKU
4	Name of District		Ainaro
	Name of Sub-district		Hato-Udo
5	Name of Suco		LEOLIMA
	Name of Aldeia		LEOLIMA
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	778622.01
		Y=	8984435.25
	Grid reference in Irr. scheme except for above facility	X=	779176
		Y=	8982616
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		300
9	Actual irrigation area (ha)		include "5"
10	Original or planned irrigation area (ha)		900.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

3 .Baucau

District : Baucau Irrigation scheme : WAIHUSU 4-a-1TC

1	No.		1
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		WAIHUSU
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BAHU
	Name of Aldeia		TEULALE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	✓
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220335
		Y=	9064322
	Grid reference in Irr. scheme except for above facility	X=	220307
		Y=	9064427
7	What kind of structure?	Weir	✓
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	1.85
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	0.80
		Number of Pond =	1
8	Number of house hold in service area		500
9	Actual irrigation area (ha)		40
10	Original or planned irrigation area (ha)		85.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SEICAL UP 4-a-2TC

1	No.		2
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		SEICAL UP
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SEICAL
	Name of Aldeia		SEICAL
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	✓
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	222460
		Y=	9058016
	Grid reference in Irr. scheme except for above facility	X=	225267
		Y=	9062476
7	What kind of structure?	Weir	✓
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.50
		Number of span =	2
		Width/1span (m)=	2.00
		Number of gates=	2
	/ If Canal→	Length of main	10,000
		Width(m) for typical	1.75
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		605
9	Actual irrigation area (ha)		1,026
10	Original or planned irrigation area (ha)		800.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- JOAO XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SEICAL DOWN(OSOSEGE) 4-a-3S

1	No.		3	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		SEICAL DOWN(OSOSEGE)				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baucau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SEICAL DOWNDE CIMA				Climate change (decrease of river	✓
	Name of Aldeia		BOROWAI				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	226526				Damage to irrigation structure	✓
		Y=	9060134				Others	
	Grid reference in Irr. scheme except for above facility	X=	228546			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9062251			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- JOAO XIMENES
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	20.00				No	✓
		Height(m)=	1.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	2.00			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	1,000		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.00				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		230		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		207			Gate maintenance		
10	Original or planned irrigation area (ha)		540.0			Canal Cleaning		✓
11	Original constructed year	Year's	1990s			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry	✓					
		Earth/Soil						
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details) ✓
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	100
●		

Evaluation of degree on immediate treatment: **A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SOTOISI LETEN 4-a-4TR

1	No.		4
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		SOTOISI LETEN
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LACULIU
	Name of Aldeia		LACUDALA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	231714.02
		Y=	9047198.3
	Grid reference in Irr. scheme except for above facility	X=	231695
		Y=	9047483
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.00
		Number of span =	
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	620
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		95
9	Actual irrigation area (ha)		425
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- MARCO BELE
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : UAI DAE 4-a-5TR

1	No.		5
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		UAI DAE
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		BUALALE
	Name of Aldeia		LIALURA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	229192
		Y=	9045695
	Grid reference in Irr. scheme except for above facility	X=	228887
		Y=	9045809
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	0.60
		Number of gates=	0
	/ If Canal→	Length of main	600
		Width(m) for typical	0.40
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		92
9	Actual irrigation area (ha)		18
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- DOMINGOS BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TATIGATA

1	No.		6
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		TATIGATA
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		WAITAME
	Name of Aldeia		GUGULAI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	232381
		Y=	9048773
	Grid reference in Irr. scheme except for above facility	X=	232382
		Y=	9048774
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.60
		Number of span =	
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	320
		Width(m) for typical	0.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		82
9	Actual irrigation area (ha)		include"4"
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LETE GUA 4-a-7TR

1	No.		7	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		3/4/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		LETE GUA				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		GURUCA				Climate change (decrease of river flow	
	Name of Aldeia		LAKULELA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	234159				Damage to irrigation structure	
		Y=	9055066				Others	
	Grid reference in Irr. scheme except for above facility	X=	234083			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9055279			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Canal	✓				No	✓
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	2.00				No	✓
		Height(m)=	1.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=	0.80			by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	215		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		72		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		27			Gate maintenance		
10	Original or planned irrigation area (ha)		69.0			Canal Cleaning		
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Irrigation scheme has not been utilized for 4 years.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILAU LETEN 4-a-8TR

1	No.		8	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		2/4/2014			(Frequency) Every year	✓
3	Name of Irrigation scheme		WAILAU LETEN			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		BUALELE			Climate change (decrease of river flow	✓
	Name of Aldeia		OSOMESA			Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme	
		Intake with gates				(Frequency) Every year	
		Pond/Lake/Spring	✓			A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	231092			Damage to irrigation structure	
		Y=	9045420			Others	
	Grid reference in Irr. scheme except for above facility	X=	230938			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9045383			(Reason)	
7	What kind of structure?	Weir				Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake	✓		a) In case of YES		
		Others				WUAs	
	/ If Weir→	Length(m)=			a-1) What kind of the WG or WUAs ?	Traditional WG	✓
		Height(m)=				Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =			a-3) Name of representative of WG or WUAs		- DEOLINDO DA COSTA
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=				No	✓
		Height(m)=	0.50		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
		Number of span =					US$/ha as water fee
		Width/1span (m)=	0.60			by Rice	kg/HH as member ship fee
		Number of gates=					kg/ha as water fee
	/ If Canal→	Length of main	270		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		Width(m) for typical	0.40			No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%
	/ If Pond or lake→	Diameter of Pond(m) =	3.0				for years
		Depth(m)=	0.90			Decrease	%
		Number of Pond =	1				for years
8	Number of house hold in service area		80		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		101			Gate maintenance	
10	Original or planned irrigation area (ha)		60.0			Canal Cleaning	✓
11	Original constructed year	Year's				Canal Rehabilitation	
		Exact year				Others	
		Rehabilitated year			a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake					
		Intake with Gates					
		Pond/Lake	✓				
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee		
		Wet Masonry					
		Earth/Soil	✓				
		Others					

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons ✓
		(Details) - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ODU KALELE 4-a-9TR

1	No.		9	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		ODU KALELE				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		MAKALALO				Climate change (decrease of river	✓
	Name of Aldeia		SULAU				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	222455				Damage to irrigation structure	
		Y=	9049408				Others	
	Grid reference in Irr. scheme except for above facility	X=	221349			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9049433			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- JACINTO XIMENES
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=	4.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.80				US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.20				kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	520				No	
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		27			Gate maintenance		
9	Actual irrigation area (ha)		102			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		34.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

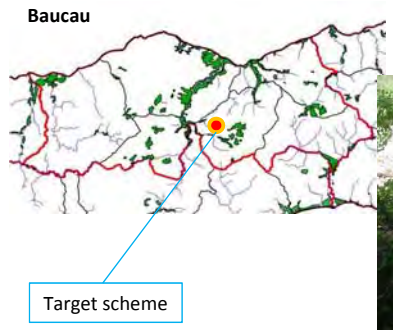
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SIA KAUSULANAU 4-a-10TR

1	No.		10	
2	Date of Survey		2/4/2014	
3	Name of Irrigation scheme		SIA KAUSULANAU	
4	Name of District		Baucau	
	Name of Sub-district		Quelicai	
5	Name of Suco		MAKALALO	
	Name of Aldeia		BUSILAI	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	224114	
		Y=	9049181	
	Grid reference in Irr. scheme except for above facility	X=	223438	
		Y=	9049765	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	2.00	
		Height(m)=	0.80	
		Number of span =	1	
		Width/1span (m)=	1.00	
		Number of gates=	0	
	/ If Canal→	Length of main	270	
		Width(m) for typical	0.80	
		Height(m)=	0.60	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		47	
9	Actual irrigation area (ha)		22	
10	Original or planned irrigation area (ha)		60.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- SATURNINO F. BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee		- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.	

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha)	-	Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : UNUTU UAE-LALABERE 4-a-11TR

1	No.		11	
2	Date of Survey		3/4/2014	
3	Name of Irrigation scheme		UNUTU UAE-LALABERE	
4	Name of District		Baucau	
	Name of Sub-district		Quelicai	
5	Name of Suco		MAKALALO	
	Name of Aldeia		BUSILAI	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	224449	
		Y=	9050231	
	Grid reference in Irr. scheme except for above facility	X=	223926	
		Y=	9049918	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	5.00	
		Height(m)=	0.30	
		Number of span =		
		Width/1span (m)=	0.40	
		Number of gates=		
	/ If Canal→	Length of main	700	
		Width(m) for typical	0.40	
		Height(m)=	0.30	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		31	
9	Actual irrigation area (ha)		14	
10	Original or planned irrigation area (ha)		50.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal", show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JACINTO SOARES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee		- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SOTO ISI KARAIK 4-a-12TR

1	No.		12	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		SOTO ISI KARAIK				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LACULIU				Climate change (decrease of river flow	✓
	Name of Aldeia		LAKUDALA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	230474.48				Damage to irrigation structure	
		Y=	9047816.13				Others	
	Grid reference in Irr. scheme except for above facility	X=	231379			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9047895			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- ADELINO BELO
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	4.00				No	✓
		Height(m)=	0.40		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	0				US$/ha as water fee	
		Width/1span (m)=	0.60			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	400		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.40				No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		70		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"4"			Gate maintenance		
10	Original or planned irrigation area (ha)		60.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will stop in future.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13 What's kind of problem for the structure or facility, and reason of problem ?		
Problems on Weir or Intake	✓	
Broken	✓	
Not functional by deterioration		
Cannot operate the gate		
Cannot keep the water level for some reasons (Details)		
Obstruction of sand/stone (sedimentation)	✓	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
others		
Problems on Canal	✓	
Broken	✓	
Not functional by deterioration		
Cannot operate the gate		
Cannot flow the water for some reasons (Details)		
Obstruction of sand/stone (sedimentation)	✓	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on Pond/Lake		
Broken		
Not functional by deterioration		
Cannot operate the outlet gate		
Cannot keep the water in pond for some reasons (Details)		
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on the other facilities		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment: **B**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : IRA RAGO-RAGO 4-a-13TR

1	No.		13	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		2/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		IRA RAGO-RAGO				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LAISORULAI DE CIMA				Climate change (decrease of river	✓
	Name of Aldeia		SAMAFANU				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	229837.1				Damage to irrigation structure	
		Y=	9042010.2				Others	
	Grid reference in Irr. scheme except for above facility	X=	230092			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9041824			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake	✓		a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			- BERNARDO DOS
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	4.00				No	✓
		Height(m)=	0.80		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	1.50			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	620		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.80				No	
		Height(m)=	0.90		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		200		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		31			Gate maintenance		
10	Original or planned irrigation area (ha)		120.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respendent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden		16	Opinion or request by interviewee			
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respendent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BIBI NENE-UKAMONI 4-a-14TR

1	No.		14	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BIBI NENE-UKAMONI				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		AFACAGURUCA				Climate change (decrease of river	✓
	Name of Aldeia		OLIGATA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	234441				Damage to irrigation structure	
		Y=	9053939				Others	
	Grid reference in Irr. scheme except for above facility	X=	234476			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9054854			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			- DUARTE DOS REIS
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	2.00				No	✓
		Height(m)=	1.30		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=	1.00			by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	700		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.80				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		82		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		102			Gate maintenance		
10	Original or planned irrigation area (ha)		159.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishhnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden		16	Opinion or request by interviewee			
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SAMA TIRILOLO 4-a-15TR

1	No.		15	
2	Date of Survey		2/4/2014	
3	Name of Irrigation scheme		SAMA TIRILOLO	
4	Name of District		Baucau	
	Name of Sub-district		Quelicai	
5	Name of Suco		BUALALE	
	Name of Aldeia		LIALURA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	228172	
		Y=	9045966	
	Grid reference in Irr. scheme except for above facility	X=	227862	
		Y=	9045886	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	2.00	
		Height(m)=	0.60	
		Number of span =	1	
		Width/1span (m)=	0.80	
		Number of gates=	0	
	/ If Canal→	Length of main	520	
		Width(m) for typical	0.60	
		Height(m)=	0.50	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		42	
9	Actual irrigation area (ha)		33	
10	Original or planned irrigation area (ha)		60.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			- JANUARIO B.
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : UAI BANE 4-a-16TR

1	No.		16	
2	Date of Survey		3/4/2014	
3	Name of Irrigation scheme		UAI BANE	
4	Name of District		Baucau	
	Name of Sub-district		Quelicai	
5	Name of Suco		LELALAI	
	Name of Aldeia		DESA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	222579	
		Y=	9047124	
	Grid reference in Irr. scheme except for above facility	X=	222449	
		Y=	9047234	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	3.00	
		Height(m)=	1.20	
		Number of span =	1	
		Width/1span (m)=	1.00	
		Number of gates=	0	
	/ If Canal→	Length of main	700	
		Width(m) for typical	1.00	
		Height(m)=	0.80	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		63	
9	Actual irrigation area (ha)		17	
10	Original or planned irrigation area (ha)		70.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scene ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- FERNANDO B.
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee		- Young people are leaving the country go to get jobs in abroad and agriculture activity will stop in future.	

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BOROKILI 4-a-17TR

1	No.		17
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		BOROKILI
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		BUALELE
	Name of Aldeia		OSOMESA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	231252
		Y=	9044837
	Grid reference in Irr. scheme except for above facility	X=	231066
		Y=	9045109
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	0.80
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	420
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		60
9	Actual irrigation area (ha)		include"8"
10	Original or planned irrigation area (ha)		85.0
11	Original constructed year	Year's	1990s
		Exact year	1998
		Rehabilitated year	2009
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- DEOLINDO DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GALA RESI 4-a-18TR

1	No.		18	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		2/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		GALA RESI				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BUALALE				Climate change (decrease of river	✓
	Name of Aldeia		OSOMESA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	230647				Damage to irrigation structure	✓
		Y=	9044952				Others	
	Grid reference in Irr. scheme except for above facility	X=	230440			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9045184			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			- DOMINGOS B.
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	4.00				No	✓
		Height(m)=	0.80		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	0				US$/ha as water fee	
		Width/1span (m)=	1.00			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	400		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.80				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		60		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"8"			Gate maintenance		
10	Original or planned irrigation area (ha)		50.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respendent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Young people are leaving the country go to get jobs in abroad and agriculture activity will stop in future.		
		Others						
	If respendent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ABA GUIA 4-a-19TR

1	No.		19
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		ABA GUIA
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		AFACA
	Name of Aldeia		OLIGATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	225977
		Y=	9046471
	Grid reference in Irr. scheme except for above facility	X=	225749
		Y=	9046858
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.00
		Number of span =	
		Width/1span (m)=	0.90
		Number of gates=	
	/ If Canal→	Length of main	340
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		51
9	Actual irrigation area (ha)		20.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- AQUILIS CABRAL
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ABA GUIA 4-a-20TR

1	No.		20
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		ABA GUIA
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		AFACA
	Name of Aldeia		OLIGATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	225977
		Y=	9046471
	Grid reference in Irr. scheme except for above facility	X=	225749
		Y=	9046858
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.00
		Number of span =	
		Width/1span (m)=	0.90
		Number of gates=	
	/ If Canal→	Length of main	340
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		51
9	Actual irrigation area (ha)		17.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- AQUILIS CABRAL
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LAUMANA UAIMUI 4-a-21TR

1	No.		21
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		LAUMANA UAIMUI
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LETEMUMU
	Name of Aldeia		LAUMANA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	230934.17
		Y=	9048194.56
	Grid reference in Irr. scheme except for above facility	X=	232550
		Y=	9048204
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.40
		Number of span =	
		Width/1span (m)=	0.50
		Number of gates=	
	/ If Canal→	Length of main	160
		Width(m) for typical	0.60
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	5.0
		Depth(m)=	0.50
		Number of Pond =	1
8	Number of house hold in service area		87
9	Actual irrigation area (ha)		include"4"
10	Original or planned irrigation area (ha)		85.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- AGOSTINHO DOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Young people are leaving the country go to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : METE RUI LETEN 4-a-22TR

1	No.		22	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		METE RUI LETEN				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BUALALE				Climate change (decrease of river	✓
	Name of Aldeia		LIALURA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	228746				Damage to irrigation structure	
		Y=	9048165				Others	
	Grid reference in Irr. scheme except for above facility	X=	228956			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9047845			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- JOAO BELE
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	3.00				No	✓
		Height(m)=	1.20		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=	2.00			by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	715		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.00				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		21		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"4"			Gate maintenance		
10	Original or planned irrigation area (ha)		40.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden	✓					
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee	- Young people are leaving the country go to get jobs in abroad and agriculture activity will stop in future.		
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13 What's kind of problem for the structure or facility, and reason of problem ?		
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	✓
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : UAI RESI(UATUDALA) 4-a-23TR

1	No.		23
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		UAI RESI(UATUDALA)
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LELALAI
	Name of Aldeia		DESA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	224042
		Y=	9046853
	Grid reference in Irr. scheme except for above facility	X=	223764
		Y=	9046751
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	1.00
		Height(m)=	0.80
		Number of span =	0
		Width/1span (m)=	1.20
		Number of gates=	0
	/ If Canal→	Length of main	900
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		20.0
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			- HERMEGILDO DOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Young people are leaving the country go to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TIBA LARI 4-a-24TR

1	No.		24	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		2/4/2014			(Frequency) Every year	✓
3	Name of Irrigation scheme		TIBA LARI			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Quelicai			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		LAISORULAI DE			Climate change (decrease of river	✓
	Name of Aldeia		BATICASA			Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	✓
		Pond/Lake/Spring				A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	230126			Damage to irrigation structure	
		Y=	9044145			Others	
	Grid reference in Irr. scheme except for above facility	X=	229847			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9044359			(Reason)	
7	What kind of structure?	Weir				Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake			a) In case of YES		
		Others			a-1) What kind of the WG or WUAs ?	WUAs	
	/ If Weir→	Length(m)=				Traditional WG	✓
		Height(m)=				Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =			a-3) Name of representative of WG or WUAs		- NORBERTO DA COSTA
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=	2.00			No	✓
		Height(m)=	0.80		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		Number of span =	1			by Cash: US$/ha as water fee	
		Width/1span (m)=	1.20			by Rice: kg/HH as member ship fee	
		Number of gates=	0			by Rice: kg/ha as water fee	
	/ If Canal→	Length of main	320		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		Width(m) for typical	0.40			No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase %	
	/ If Pond or lake→	Diameter of Pond(m) =				Increase for years	
		Depth(m)=				Decrease %	
		Number of Pond =				Decrease for years	
8	Number of house hold in service area		80		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		113.0			Gate maintenance	
10	Original or planned irrigation area (ha)		120.0			Canal Cleaning	✓
11	Original constructed year	Year's				Canal Rehabilitation	
		Exact year				Others	
		Rehabilitated year			a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respendent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake	✓				
		Intake with Gates					
		Pond/Lake					
		Canal	✓	16	Opinion or request by interviewee		
		Others					
	If respendent select above "☑ Canal" , show the type of canal	Concrete					
		Wet Masonry					
		Earth/Soil	✓				
		Others					

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●

Size of area (10 pts, more than 100ha)	Total Points	80
●		

Evaluation of degree on immediate treatment: **A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : UAIDABA 4-a-25TR

1	No.		25
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		UAIDABA
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LAISORULAI DE
	Name of Aldeia		BATICASA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	230067.47
		Y=	9044097.26
	Grid reference in Irr. scheme except for above facility	X=	229647
		Y=	9044076
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	0.30
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	1.2
		Depth(m)=	0.80
		Number of Pond =	1
8	Number of house hold in service area		80
9	Actual irrigation area (ha)		include"24"
##	Original or planned irrigation area (ha)		74.0
##	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
##	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			NORBERTO DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

##	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons ✓
		(Details) - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	90
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Bau Gia 4-a-26TR

1	No.		26
2	Date of Survey		10/3/2014
3	Name of Irrigation scheme		Bau Gia
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Saelari
	Name of Aldeia		Terubaca
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	246460
		Y=	9060411
	Grid reference in Irr. scheme except for above facility	X=	246742
		Y=	9060273
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.80
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		23
9	Actual irrigation area (ha)		6.0
##	Original or planned irrigation area (ha)		25.0
##	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
##	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

##	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons ✓ (Details) - Erosion
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) -		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SIRIMANA 4-a-27TR

1	No.		27	
2	Date of Survey		14/3/2014	
3	Name of Irrigation scheme		SIRIMANA	
4	Name of District		Baucau	
	Name of Sub-district		Laga	
5	Name of Suco		LIBAGUA	
	Name of Aldeia		SIRIMANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	241707.57	
		Y=	9060140.74	
	Grid reference in Irr. scheme except for above facility	X=	241373	
		Y=	9060264	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	200	
		Width(m) for typical	0.50	
		Height(m)=	0.80	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		38	
9	Actual irrigation area (ha)		35.0	
10	Original or planned irrigation area (ha)		30.0	
11	Original constructed year	Year's	Before 1970	
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	✓ - Erosion
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	

Size of area (10 pts, more than 100ha)	Total Points	80
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Tati Ira 4-a-28TR

1	No.		28
2	Date of Survey		21/04/2014
3	Name of Irrigation scheme		Tati Ira
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		Nunira
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	241555.99
		Y=	9060724.09
	Grid reference in Irr. scheme except for above facility	X=	241510
		Y=	9060709
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	50
		Width(m) for typical	1.20
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		18
9	Actual irrigation area (ha)		include"27"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SOBANISI 4-a-29TR

1	No.		29
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		SOBANISI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SAGADATE
	Name of Aldeia		AURABA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	244876.65
		Y=	9058251.46
	Grid reference in Irr. scheme except for above facility	X=	247557.85
		Y=	9057901.38
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.70
		Number of span =	0
		Width/1span (m)=	2.00
		Number of gates=	0
	/ If Canal→	Length of main	200
		Width(m) for typical	1.40
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		27
9	Actual irrigation area (ha)		103.0
10	Original or planned irrigation area (ha)		86.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers request government to offer support to rehabilitate irrigation scheme.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BATAFU 4-a-30TR

1	No.		30	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		21/2/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BATAFU				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SAMALARI				Climate change (decrease of river	✓
	Name of Aldeia		ERUMATA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	244065				Damage to irrigation structure	✓
		Y=	9065238				Others	
	Grid reference in Irr. scheme except for above facility	X=	244253			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9065375					
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- Sabino Martins
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	6.00				No	✓
		Height(m)=	1.60		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	0.80			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.70				No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		162		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		100.0			Gate maintenance		
10	Original or planned irrigation area (ha)		30.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee	- River bed is low to guide water to the paddy field.		
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	✓
		(Details)	- River bed is low.
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●
Size of area (10 pts, more than 100ha)		Total Points	80
●			
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WATAKAITARA 4-a-31TR

1	No.		31	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/2/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		WATAKAITARA				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		SAGADATI				Climate change (decrease of river	
	Name of Aldeia		AURABA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	249515				Damage to irrigation structure	
		Y=	9059160				Others	
	Grid reference in Irr. scheme except for above facility	X=	249884			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9059295			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Canal	✓				No	✓
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.50				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		15		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		14.0			Gate maintenance		
10	Original or planned irrigation area (ha)		40.0			Canal Cleaning		
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- No agriculrural activities.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	30
-		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BIGESI RAGAISI 4-a-32TR

1	No.		32
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		BIGESI RAGAISI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SAGADATE
	Name of Aldeia		AURABA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	250185
		Y=	9059359
	Grid reference in Irr. scheme except for above facility	X=	250258
		Y=	9059439
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	250
		Width(m) for typical	1.00
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		17
9	Actual irrigation area (ha)		9.0
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scene ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers request government to offer support to rehabilitate irrigation scheme.		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Suliu 4-a-33TR

1	No.		33
2	Date of Survey		21/04/2014
3	Name of Irrigation scheme		Suliu
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Saelari
	Name of Aldeia		Teru Bala
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	246332
		Y=	9060475
	Grid reference in Irr. scheme except for above facility	X=	246458
		Y=	9060468
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	115
		Width(m) for typical	0.30
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	4.0
		Depth(m)=	0.35
		Number of Pond =	1
8	Number of house hold in service area		10
9	Actual irrigation area (ha)		include"26"
10	Original or planned irrigation area (ha)		5.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha) ●	Total Points	30
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Ono Meta 4-a-34TR

1	No.		34
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Ono Meta
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		ButuFalu
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	236874
		Y=	9060891
	Grid reference in Irr. scheme except for above facility	X=	236427
		Y=	9061201
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	2.00
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		180
9	Actual irrigation area (ha)		26.0
10	Original or planned irrigation area (ha)		138.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Daniel Castro
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	Coorporative collect from farmers 0.5USD/kg and store it. - In dry season, some farmers rear buffalo in the paddy field and conduct traditional custom ceremony.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Wari Nana 4-a-35TR

1	No.		35
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Wari Nana
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		ButuFalu
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235905
		Y=	9061241
	Grid reference in Irr. scheme except for above facility	X=	235612
		Y=	9061395
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,750
		Width(m) for typical	2.50
		Height(m)=	0.85
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		435
9	Actual irrigation area (ha)		39.0
10	Original or planned irrigation area (ha)		230.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Cipriano Castro
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	Coorporative collect from farmers 0.5USD/kg and store it. - In dry season, some farmers rear buffalo in the paddy field and conduct traditional custom ceremony.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

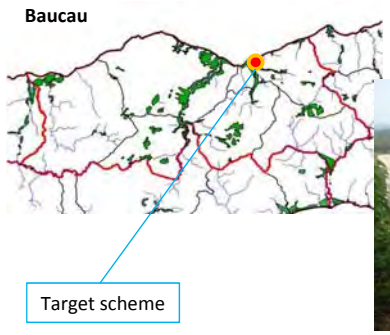
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Ossumutu 4-a-36TR

1	No.		36
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Ossumutu
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		ButuFalu
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235872
		Y=	9061335
	Grid reference in Irr. scheme except for above facility	X=	235854
		Y=	9061431
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	1.20
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		12
9	Actual irrigation area (ha)		Include"35"
10	Original or planned irrigation area (ha)		4.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase %	
		for years	
		Decrease %	
		for years	
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	Coorporative collect from farmers 0.5USD/kg and store it. - In dry season, some farmers rear buffalo in the paddy field and conduct traditional custom ceremony.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SAE ASANA 4-a-37TR

1	No.		37
2	Date of Survey		14/3/2014
3	Name of Irrigation scheme		SAE ASANA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SOBA
	Name of Aldeia		BUTUFALO-AILEMI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235221.01
		Y=	9062445.66
	Grid reference in Irr. scheme except for above facility	X=	235703
		Y=	9062738
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,350
		Width(m) for typical	1.50
		Height(m)=	0.95
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		180
9	Actual irrigation area (ha)		89.0
10	Original or planned irrigation area (ha)		160.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	20
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ONE ABA 4-a-38TR

1	No.		38
2	Date of Survey		14/3/2014
3	Name of Irrigation scheme		ONE ABA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SOBA
	Name of Aldeia		BOLEHA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	234884.83
		Y=	9059741.54
	Grid reference in Irr. scheme except for above facility	X=	235000
		Y=	9060340
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	330
		Width(m) for typical	1.30
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		262.0
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	50
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SORO DUFU LIU 4-a-39TR

1	No.		39
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		SORO DUFU LIU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		Role-ha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	240972
		Y=	9057713
	Grid reference in Irr. scheme except for above facility	X=	240713
		Y=	9057882
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	340
		Width(m) for typical	0.40
		Height(m)=	0.35
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		4.0
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- River name: Laga
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	Tourism Place		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)

Size of area (10 pts, more than 100ha)	Total Points	0
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GUNIDAAGEE 4-a-40TR

1	No.		40	
2	Date of Survey		20/2/2014	
3	Name of Irrigation scheme		GUNIDAAGEE	
4	Name of District		Baucau	
	Name of Sub-district		Laga	
5	Name of Suco		TEQUINOMATA	
	Name of Aldeia		KAIKASALARI	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	235024	
		Y=	9059983	
	Grid reference in Irr. scheme except for above facility	X=	234961	
		Y=	9060431	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	15.00	
		Height(m)=	2.00	
		Number of span =	1	
		Width/1span (m)=	2.30	
		Number of gates=	0	
	/ If Canal→	Length of main	1,000	
		Width(m) for typical	1.50	
		Height(m)=	1.60	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		60	
9	Actual irrigation area (ha)		include"38"	
10	Original or planned irrigation area (ha)		110.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scene ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- EGIDIO BATISTA BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

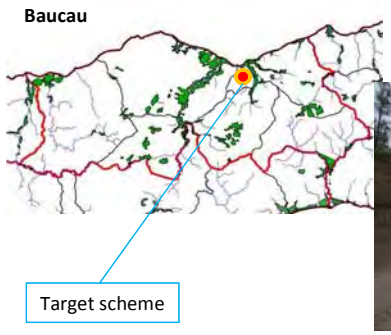
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Balubagee 4-a-41TR

1	No.		41
2	Date of Survey		21/04/2014
3	Name of Irrigation scheme		Balubagee
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Tequinomata
	Name of Aldeia		Bulubai
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235077
		Y=	9058875
	Grid reference in Irr. scheme except for above facility	X=	234869
		Y=	9059247
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	- Intake is the same
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	1.50
		Number of gates=	
	/ If Canal→	Length of main	500
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		34
9	Actual irrigation area (ha)		7.0
10	Original or planned irrigation area (ha)		32.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Angelino da Costa
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Intake is shared with 4-a-56TR Bulubai

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

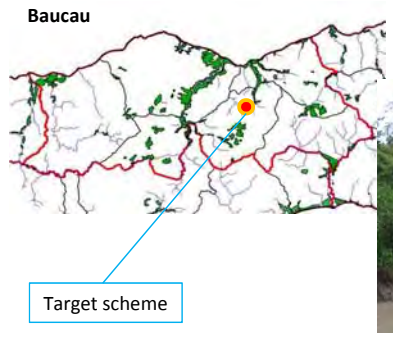
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WALEKIGEE 4-a-42TR

1	No.		42	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		20/2/2014			(Frequency) Every year	
3	Name of Irrigation scheme		WALEKIGEE			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason) Not functional of irrigation structure	✓
5	Name of Suco		TEQUINOMATA			Climate change (decrease of river flow	
	Name of Aldeia		KAIKASALARI			Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	✓
		Pond/Lake/Spring				A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	234968			Damage to irrigation structure	
		Y=	9060661			Others	
	Grid reference in Irr. scheme except for above facility	X=	234668			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9060971			(Reason)	
7	What kind of structure?	Weir				Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake			a) In case of YES		
		Others			a-1) What kind of the WG or WUAs ?	WUAs	
	/ If Weir→	Length(m)=				Traditional WG	✓
		Height(m)=				Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =			a-3) Name of representative of WG or WUAs		- DOMINGOS XIMENES
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=	5.00			No	✓
		Height(m)=	1.80		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
		Number of span =					US$/ha as water fee
		Width/1span (m)=	1.00			by Rice	kg/HH as member ship fee
		Number of gates=					kg/ha as water fee
	/ If Canal→	Length of main	720		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		Width(m) for typical	0.80			No	
		Height(m)=	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%
	/ If Pond or lake→	Diameter of Pond(m) =					for years
		Depth(m)=				Decrease	%
		Number of Pond =					for years
8	Number of house hold in service area		52		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		include"38"			Gate maintenance	
10	Original or planned irrigation area (ha)		130.0			Canal Cleaning	✓
11	Original constructed year	Year's				Canal Rehabilitation	
		Exact year				Others	
		Rehabilitated year			a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water	✓			The WG or WUAs is under establishment. (Expected establishment year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake	✓				
		Intake with Gates					
		Pond/Lake					
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee	- No agricultural activities.	
		Wet Masonry					
		Earth/Soil	✓				
		Others					

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ARALEUSI 4-a-43TR

1	No.		43
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		ARALEUSI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		ARALEUSI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235256.46
		Y=	9060118.04
	Grid reference in Irr. scheme except for above facility	X=	234966
		Y=	9060580
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	2.50
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	
	/ If Canal→	Length of main	700
		Width(m) for typical	1.20
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		67
9	Actual irrigation area (ha)		include"38"
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scene ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- AFONSO DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DAER LIU 4-a-44TR

1	No.		44
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		DAER LIU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		Role-ha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	240882.95
		Y=	9058669.53
	Grid reference in Irr. scheme except for above facility	X=	239005
		Y=	9058915
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,300
		Width(m) for typical	0.60
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		130
9	Actual irrigation area (ha)		57.0
##	Original or planned irrigation area (ha)		150.0
##	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
##	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Location of Intake is lower than target area.		

##	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- Intake is lower
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	30
-		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DEFAGISI 4-a-45TR

1	No.		45
2	Date of Survey		14/3/2014
3	Name of Irrigation scheme		DEFAGISI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SOBA
	Name of Aldeia		BOLEHA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	240043
		Y=	9060057
	Grid reference in Irr. scheme except for above facility	X=	239862
		Y=	9060044
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	230
		Width(m) for typical	1.20
		Height(m)=	0.90
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		18
9	Actual irrigation area (ha)		49.0
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha)		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Luge 4-a-46TR

1	No.		46
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Luge
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Soba
	Name of Aldeia		ButuFalu
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	237213.09
		Y=	9060742.02
	Grid reference in Irr. scheme except for above facility	X=	236427
		Y=	9060725
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	650
		Width(m) for typical	2.50
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		220
9	Actual irrigation area (ha)		32.0
10	Original or planned irrigation area (ha)		145.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	5
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	Coorporative collect from farmers 0.5USD/kg and store it. - In dry season, some farmers rear buffalo in the paddy field and conduct traditional custom ceremony.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

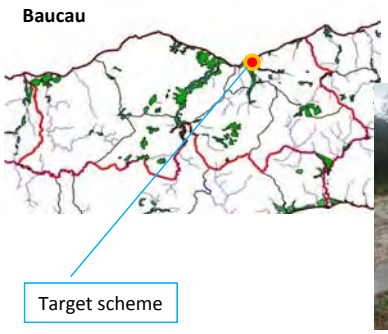
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LOINDANA 4-a-47TR

1	No.		47
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		LOINDANA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		BULUBAI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	234376
		Y=	9056473
	Grid reference in Irr. scheme except for above facility	X=	234611
		Y=	9056718
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.40
		Number of span =	0
		Width/1span (m)=	2.10
		Number of gates=	0
	/ If Canal→	Length of main	400
		Width(m) for typical	1.80
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		52
9	Actual irrigation area (ha)		200.0
10	Original or planned irrigation area (ha)		162.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- SAUL BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ALERE GITUFU 4-a-48TR

1	No.		48
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		ALERE GITUFU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		SAMAGIA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235068
		Y=	9057933
	Grid reference in Irr. scheme except for above facility	X=	235110
		Y=	9057984
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	15.00
		Height(m)=	1.50
		Number of span =	0
		Width/1span (m)=	1.40
		Number of gates=	0
	/ If Canal→	Length of main	500
		Width(m) for typical	1.20
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		include"47"
10	Original or planned irrigation area (ha)		45.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- DELFIN XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will be developed slowly.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : AUTIBALAKO 4-a-49TR

1	No.		49
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		AUTIBALAKO
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		SAMAGUIA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235057
		Y=	9058210
	Grid reference in Irr. scheme except for above facility	X=	235199
		Y=	9058475
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.30
		Number of span =	1
		Width/1span (m)=	1.70
		Number of gates=	0
	/ If Canal→	Length of main	500
		Width(m) for typical	2.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		include"47"
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- BERNARDO CLAUDIO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha) ●	Total Points	60
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LABALOU 4-a-50TR

1	No.		50
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		LABALOU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		SAMAGIA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	235703
		Y=	9057744
	Grid reference in Irr. scheme except for above facility	X=	235724
		Y=	9057895
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	57
		Width(m) for typical	1.20
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		include"47"
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Lourenco da costa
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

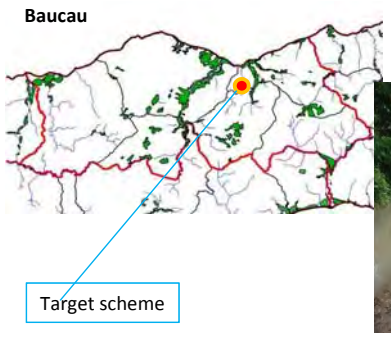
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	- River bed is lower
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LEMAGE 4-a-51TR

1	No.		51	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		20/2/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		LEMAGE				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TEQUINOMATA				Climate change (decrease of river	
	Name of Aldeia		LEMAGE				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	234880				Damage to irrigation structure	
		Y=	9059872				Others	
	Grid reference in Irr. scheme except for above facility	X=	234849			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9059937			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- AGOSTO BATISTA
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	10.00				No	✓
		Height(m)=	3.50		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	1.20			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	700		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.00				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		72		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"38"			Gate maintenance		
10	Original or planned irrigation area (ha)		100.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TITI LARI 4-a-52TR

1	No.		52
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		TITI LARI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		ATELARI
	Name of Aldeia		LAWA-DAE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	248691
		Y=	9051415
	Grid reference in Irr. scheme except for above facility	X=	248026
		Y=	9052278
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	1.10
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		283.0
10	Original or planned irrigation area (ha)		45.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

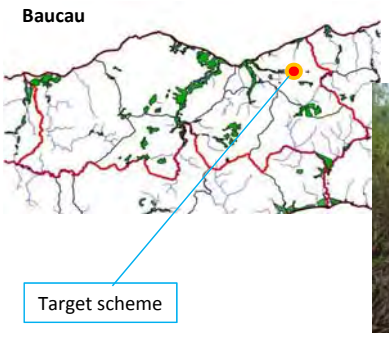
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : USUMATA 4-a-53TR

1	No.		53
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		USUMATA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		USUMATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	233875
		Y=	9061544
	Grid reference in Irr. scheme except for above facility	X=	233726
		Y=	9061827
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	0.90
		Number of gates=	0
	/ If Canal→	Length of main	600
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		12
9	Actual irrigation area (ha)		include"38"
10	Original or planned irrigation area (ha)		55.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JOAO BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : MUASUFA 4-a-54TR

1	No.		54
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		MUASUFA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		MUASUFA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	234785
		Y=	9061279
	Grid reference in Irr. scheme except for above facility	X=	234382
		Y=	9061312
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	0.90
		Number of span =	0
		Width/1span (m)=	3.00
		Number of gates=	0
	/ If Canal→	Length of main	710
		Width(m) for typical	2.00
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		48
9	Actual irrigation area (ha)		include"38"
10	Original or planned irrigation area (ha)		110.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JAQUEL XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BUASUNU 4-a-55TR

1	No.		55
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		BUASUNU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		KAIKASALARI-
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	234138
		Y=	9061547
	Grid reference in Irr. scheme except for above facility	X=	234119
		Y=	9062183
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.50
		Number of gates=	0
	/ If Canal→	Length of main	500
		Width(m) for typical	1.20
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		89.0
10	Original or planned irrigation area (ha)		52.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- DOMINGOS DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	30
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BULUBAI 4-a-56TR

1	No.		56	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/2/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BULUBAI				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TEQUINOMATA				Climate change (decrease of river	✓
	Name of Aldeia		BULUBAI				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	235077				Damage to irrigation structure	
		Y=	9058875				Others	
	Grid reference in Irr. scheme except for above facility	X=	235010			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9058996			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others	- Intake is the same		a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- ANGELINO DA COSTA
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	10.00				No	✓
		Height(m)=	0.70		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	1.50			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	250		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		57		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"41"			Gate maintenance		
10	Original or planned irrigation area (ha)		100.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden		16	Opinion or request by interviewee	- Intake is shared with 4-a-41TR Bulubagee		
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13 What's kind of problem for the structure or facility, and reason of problem ?		
Problems on Weir or Intake		✓
Broken		✓
Not functional by deterioration		✓
Cannot operate the gate		
Cannot keep the water level for some reasons (Details)		
Obstruction of sand/stone (sedimentation)		✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
others		
Problems on Canal		✓
Broken		✓
Not functional by deterioration		
Cannot operate the gate		
Cannot flow the water for some reasons (Details)		
Obstruction of sand/stone (sedimentation)		✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on Pond/Lake		
Broken		
Not functional by deterioration		
Cannot operate the outlet gate		
Cannot keep the water in pond for some reasons (Details)		
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on the other facilities		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

1	No.		57
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		None
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete structure)	
		Weir (Wooden structure)	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow or	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13. Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)

Size of area (10 pts, more than 100ha)	Total Points	
Evaluation of degree on immediate treatment		

* Evaluation criteria

A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)

B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)

C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Baucau

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BATAGATA 4-a-58TR

1	No.		58	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/2/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BATAGATA				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TEQUINOMATA				Climate change (decrease of river flow	✓
	Name of Aldeia		SAMAGIA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	237347				Damage to irrigation structure	✓
		Y=	9058061				Others	
	Grid reference in Irr. scheme except for above facility	X=	237239			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9058029			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir⟶	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- AGOSTINHO CABRAL
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake⟶	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.80				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.00				kg/ha as water fee	
		Number of gates=	0		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
	/ If Canal⟶	Length of main	1,500				No	
		Width(m) for typical	0.85		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake⟶	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		40			Gate maintenance		
9	Actual irrigation area (ha)		43.0			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		70.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year		12	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others	- River name			Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	✓
Not functional by deterioration	✓
Cannot operate the gate	
Cannot keep the water level for some reasons	
(Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	✓
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons	✓
(Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons	
(Details)	
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

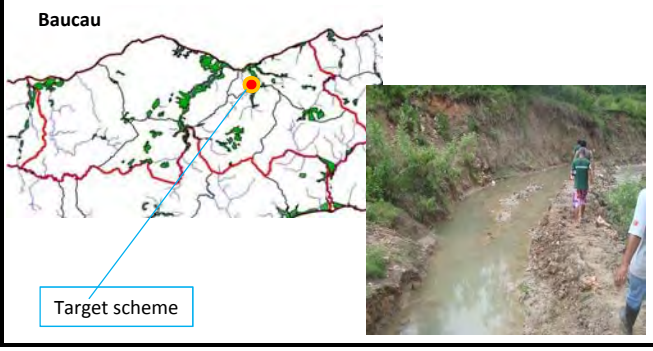
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	90
-		
Evaluation of degree on immediate treatment		A

* Evaluation
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : MODOBUTI 4-a-59TR

1	No.		59
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		MODOBUTI
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SAMALARI
	Name of Aldeia		SAMALARI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	221750
		Y=	9055445
	Grid reference in Irr. scheme except for above facility	X=	223039
		Y=	9056648
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	3.00
		Height(m)=	2.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		580
9	Actual irrigation area (ha)		298.0
10	Original or planned irrigation area (ha)		900.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase: %	
		Increase: for years	
		Decrease: %	
		Decrease: for years	
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : NATAOLI 4-a-60TR

1	No.		60
2	Date of Survey		21/3/2014
3	Name of Irrigation scheme		NATAOLI
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BERCOLI
	Name of Aldeia		NATAOLI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	217897
		Y=	9050862
	Grid reference in Irr. scheme except for above facility	X=	218896
		Y=	9050341
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,800
		Width(m) for typical	1.80
		Height(m)=	0.90
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		59
9	Actual irrigation area (ha)		165.0
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow or	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go to get jobs in abroad and agriculture activity will be developed slowly.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	30
		●	
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TEREAI 4-a-61TR

1	No.		61
2	Date of Survey		21/3/2014
3	Name of Irrigation scheme		TEREAI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		ATELARI
	Name of Aldeia		AURABA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	245378
		Y=	9052941
	Grid reference in Irr. scheme except for above facility	X=	245553
		Y=	9052802
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	150
		Width(m) for typical	0.70
		Height(m)=	0.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		181.0
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : HELAIDUBU 4-a-62TR

1	No.		62
2	Date of Survey		10/3/2014
3	Name of Irrigation scheme		HELAIDUBU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Atelari
	Name of Aldeia		Lawa-Dal
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	245423.92
		Y=	9052921.72
	Grid reference in Irr. scheme except for above facility	X=	246185
		Y=	9052882
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	230
		Width(m) for typical	1.80
		Height(m)=	0.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		28
9	Actual irrigation area (ha)		Include"61"
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	- Location of intake is higher than
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Canal has been abondoned for 5 years.	

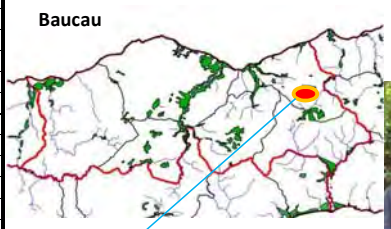
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SOBANISIN 4-a-63TR

1	No.		63
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		SOBANISIN
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Nunira
	Name of Aldeia		Boru-Lau
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	240140.17
		Y=	9063722.31
	Grid reference in Irr. scheme except for above facility	X=	238381
		Y=	9064527
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main canal(m)=	6,000
		Width(m) for typical sec.=	1.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		42
9	Actual irrigation area (ha)		28.0
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete structure)	
		Weir (Wooden structure)	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow or	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Erosion
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

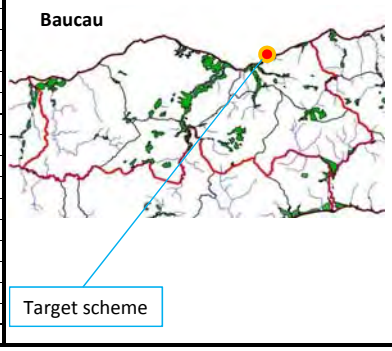
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	

Size of area (10 pts, more than 100ha) -	Total Points	80
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GELABA 4-a-64TR

1	No.		64
2	Date of Survey		14/3/2014
3	Name of Irrigation scheme		GELABA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		ATELARI
	Name of Aldeia		LAWADAE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	248087
		Y=	9052552
	Grid reference in Irr. scheme except for above facility	X=	247808
		Y=	9052785
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	100
		Width(m) for typical	1.20
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		53
9	Actual irrigation area (ha)		include"52"
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAINOE 4-a-65TR

1	No.		65
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		WAINOE
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		GARIWAI
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	216355.34
		Y=	9053437.14
	Grid reference in Irr. scheme except for above facility	X=	213686
		Y=	9053678
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main canal(m)=	44
		Width(m) for typical sec.=	0.60
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	20.0
		Depth(m)=	2.00
		Number of Pond =	1
8	Number of house hold in service area		123
9	Actual irrigation area (ha)		189.0
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water (well)	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete structure)	
		Weir (Wooden structure)	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- CELCIO MARQUES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase: %	
		Increase: for years	
		Decrease: %	
		Decrease: for years	
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIRESA 4-a-66TR

1	No.		66
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		WAIRESA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		WATUWA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	218707
		Y=	9050700
	Grid reference in Irr. scheme except for above facility	X=	219181
		Y=	9050914
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	3.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		230
9	Actual irrigation area (ha)		59.0
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILOLO 4-a-67TR

1	No.		67	
2	Date of Survey		19/3/2014	
3	Name of Irrigation scheme		WAILOLO	
4	Name of District		Baucau	
	Name of Sub-district		Baucau	
5	Name of Suco		GARIWAI	
	Name of Aldeia		WATUWA	
6	Observing location of the Grid	Free Intake		
		Intake with gates	✓	
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	219734.5	
		Y=	9051552.72	
	Grid reference in Irr. scheme except for above facility	X=	219858	
		Y=	9052023	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=	8.0	
		Height(m)=	1.50	
		Width/1span (m)=	0.90	
		Number of span =	1	
		Number of gates=	1	
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main canal(m)=	980	
		Width(m) for typical sec.=	0.65	
		Height(m)=	1.50	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		250	
9	Actual irrigation area (ha)		92.0	
10	Original or planned irrigation area (ha)		120.0	
11	Original constructed year	Year's	Before 1970	
		Exact year		
		Rehabilitated year	2012	
12	Which type of the water source ?	Spring	✓	
		River Water		
		Under Ground Water (well)		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete structure)	✓	
		Weir (Wooden structure)		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓	
		Wet Masonry	✓	
		Earth/Soil		
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above " ☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above " ☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Intake was destroyed by flood in 2013 after some monthes fo rehabilitation.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	✓
		(Annual Cost US$)	250,000
		(Contents of maintenance with high cost)	- Reconstruction
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	✓
		(Annual Cost US$)	50,000
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ULUISI(GARIWAI) 4-a-68TR

1	No.		68
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		ULUISI(GARIWAI)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		WATUWA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	219055
		Y=	9054519
	Grid reference in Irr. scheme except for above facility	X=	220333
		Y=	9053966
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	5.0
		Height(m)=	1.00
		Width/1span (m)=	0.50
		Number of span =	1
		Number of gates=	2
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	0.75
		Height(m)=	0.65
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		602.0
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) If respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Intake is shared by 3 schemes 4-a-81TR ULU ISI (WAILILI), 4-a-68TR ULU ISI (GARIWAI) and 4-a-70TR ULU ISI (SAMALARI).		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SEBELIU(GARIWAI) 4-a-69TR

1	No.		69
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		SEBELIU(GARIWAI)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		WATUWA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220849
		Y=	9052491
	Grid reference in Irr. scheme except for above facility	X=	220997
		Y=	9052581
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main canal(m)=	580
		Width(m) for typical sec.=	1.90
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		220
9	Actual irrigation area (ha)		20.0
10	Original or planned irrigation area (ha)		330.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete structure)	
		Weir (Wooden structure)	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow or	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- 4-a-69TR SABELIU (SAMALARI) and 4-a-71TR SABELIU (GARIWAI) are targetting the same paddy field. - Paddy field has been abondoned for 3 years. - River bed is lower than the target paddy field.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	- River bed is lower
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

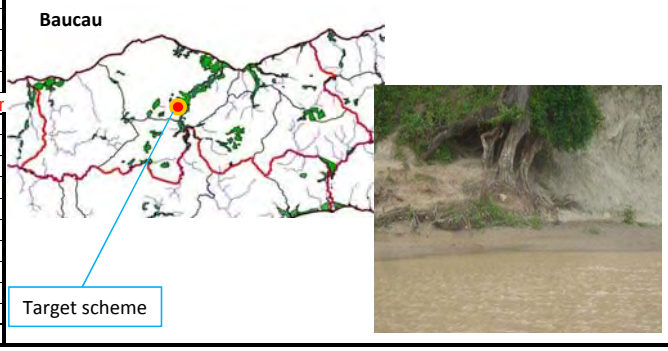
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●

Size of area (10 pts, more than 100ha)	Total Points	70
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ULUISI(SAMALARI) 4-a-70TR

1	No.		70	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		28/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		ULUISI(SAMALARI)				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baucau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SAMALARI				Climate change (decrease of river flow	
	Name of Aldeia		BUIBAU				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	219055				Damage to irrigation structure	
		Y=	9054519				Others	
	Grid reference in Irr. scheme except for above facility	X=	220393			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9054674			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=	5.0				Traditional WG	✓
		Height(m)=	1.00				Others	
		Width/1span (m)=	0.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			3
		Number of span =	1		a-3) Name of representative of WG or WUAs			
		Number of gates=	2		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	1,800		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
		Width(m) for typical	0.75				No	
		Height(m)=	0.65		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area				a-6) What is	Gate operation		✓
9	Actual irrigation area (ha)		include"68"			Gate maintenance		
10	Original or planned irrigation area (ha)		150.0			Canal Cleaning		✓
11	Original constructed year	Year's	Before 1970			Canal Rehabilitation		✓
		Exact year				Others		
		Rehabilitated year	2012		a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above " ☑ river water" , show the type of irrigation facility	Weir (concrete	✓			Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Intake is shared by 3 schemes 4-a-81TR ULU ISI (WAILILI), 4-a-68TR ULU ISI (GARIWAI) and 4-a-70TR ULU ISI (SAMALARI).		
		Others						
	If respondent select above " ☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

13 What's kind of problem for the structure or facility, and reason of problem ?	
Problems on Weir or Intake	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	✓
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SEBELIU(SAMALARI) 4-a-71TR

1	No.		71
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		SEBELIU(SAMALARI)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SAMALARI
	Name of Aldeia		USSO-LUGA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220849
		Y=	9052491
	Grid reference in Irr. scheme except for above facility	X=	220997
		Y=	9052581
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	580
		Width(m) for typical	1.90
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		220
9	Actual irrigation area (ha)		include"69"
10	Original or planned irrigation area (ha)		330.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 4-a-69TR SABELIU (SAMALARI) and 4-a-71TR SABELIU (GARIWAI) are targetting the same paddy field. - Paddy field has been abondoned for 3 years. - River bed is lower than the target paddy field.		

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	✓
Not functional by deterioration	✓
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	✓
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	- River bed is lov
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●
Size of area (10 pts, more than 100ha) ●		Total Points	80
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DUGUTAME(BUBUTAME) 4-a-72TR

1	No.		72
2	Date of Survey		14/3/2014
3	Name of Irrigation scheme		DUGUTAME(BUBUTAME)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SAMALARI
	Name of Aldeia		SAMALARI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	221750
		Y=	9055445
	Grid reference in Irr. scheme except for above facility	X=	222088
		Y=	9056054
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	730
		Width(m) for typical	3.00
		Height(m)=	2.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		200
9	Actual irrigation area (ha)		include"59"
10	Original or planned irrigation area (ha)		580.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go get jobs in abroad and agriculture activity will be developed slowly.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	30
	●	

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILEWA 4-a-73TR

1	No.		73
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		WAILEWA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		BAHU
	Name of Aldeia		HAUKALI-
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	218674.6
		Y=	9064282.74
	Grid reference in Irr. scheme except for above facility	X=	218852
		Y=	9064237
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	0.50
		Number of Pond =	1
8	Number of house hold in service area		300
9	Actual irrigation area (ha)		22.0
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	BAUCAU
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- WUA for another canal is needed.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

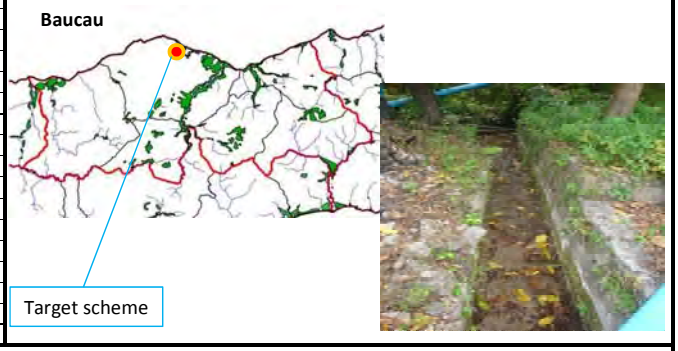
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	20
-		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measure
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measuremer
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIOLI-LALEA 4-a-74TR

1	No.		74	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/3/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		WAIOLI-LALEA				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baucau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		GARIWAI				Climate change (decrease of river flow	
	Name of Aldeia		WAIBE ANA				Others	- Leaking from canal
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	207109				Damage to irrigation structure	
		Y=	9050911				Others	
	Grid reference in Irr. scheme except for above facility	X=	209344			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9051112			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake	✓		a) In case of			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- LOURENTINO DA COSTA
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	20.00				No	✓
		Height(m)=	1.70		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	1.00			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ If Canal→	Length of main	1,000		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
		Width(m) for typical	1.20				No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =	9.0				for years	
		Depth(m)=	1.20			Decrease	%	
		Number of Pond =	1				for years	
8	Number of house hold in service area		51		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		149.0			Gate maintenance		
10	Original or planned irrigation area (ha)		80.0			Canal Cleaning		✓
11	Original constructed year	Year's	2010s			Canal Rehabilitation		
		Exact year	2012			Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake	✓					
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some rea	✓
		(Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	

Size of area (10 pts, more than 100ha)	Total Points	70
●		

Evaluation of degree on immediate treatment	A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIBU 4-a-75TR

1	No.		75
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		WAIBU
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		BAHAMORI
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	217017.85
		Y=	9054583.66
	Grid reference in Irr. scheme except for above facility	X=	217159
		Y=	9054790
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	5.0
		Depth(m)=	1.20
		Number of Pond =	1
8	Number of house hold in service area		47
9	Actual irrigation area (ha)		25.0
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- JACINTO XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	20
	-		
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAITAKATUA 4-a-76TR

1	No.		76
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		WAITAKATUA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		WAITAKATUA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	216344
		Y=	9053558
	Grid reference in Irr. scheme except for above facility	X=	214728.78
		Y=	9054132.11
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	1.10
		Number of span =	1
		Width/1span (m)=	0.80
		Number of gates=	0
	/ If Canal→	Length of main	100
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	10.0
		Depth(m)=	1.10
		Number of Pond =	2
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		include"65"
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- TITO F. XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

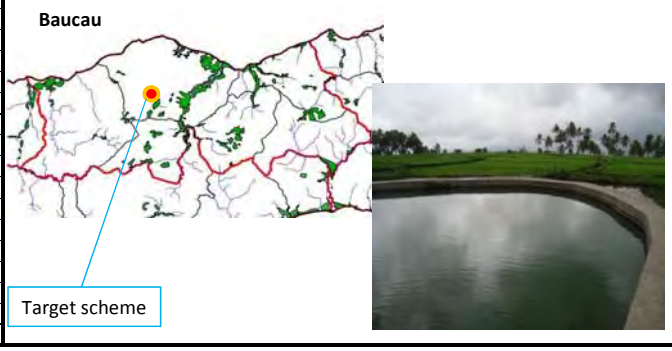
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DADAGUA 4-a-77TR

1	No.		77
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		DADAGUA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		KAIRUI
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	215251
		Y=	9052087
	Grid reference in Irr. scheme except for above facility	X=	215314
		Y=	9052080
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	1.40
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	4.0
		Depth(m)=	1.00
		Number of Pond =	1
8	Number of house hold in service area		73
9	Actual irrigation area (ha)		62.0
10	Original or planned irrigation area (ha)		160.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- FERNANDO XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some rea ✓ (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	

Size of area (10 pts, more than 100ha)	Total Points	60
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LIAME 4-a-78TR

1	No.		78
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		LIAME
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		GARIWAI
	Name of Aldeia		KAIRIRI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	212198
		Y=	9051148
	Grid reference in Irr. scheme except for above facility	X=	212983
		Y=	9051618
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	20.0
		Height(m)=	1.00
		Width/1span (m)=	1.50
		Number of span =	1
		Number of gates=	1
	/ If Intake→	Length(m)=	8.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	1,200
		Width(m) for typical	0.65
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		21
9	Actual irrigation area (ha)		97.0
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- MOISES F. BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reaso ✓
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	

Size of area (10 pts, more than 100ha)	Total Points	60
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BUILIBA 4-a-79TR

1	No.		79
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		BUILIBA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		WAILITE
	Name of Aldeia		WATUBALA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	219830
		Y=	9054047
	Grid reference in Irr. scheme except for above facility	X=	219864
		Y=	9053924
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	250
		Width(m) for typical	0.50
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		48
9	Actual irrigation area (ha)		include"68"
10	Original or planned irrigation area (ha)		158.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 4-a-80TR BIBIDU and 4-a-79 BUILIBA are targetting the same paddy field.		

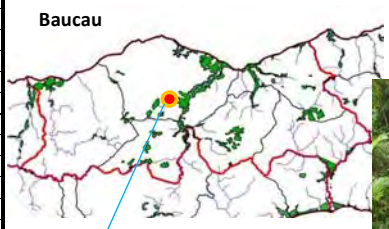
13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	✓
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BIBIDU 4-a-80TR

1	No.		80
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		BIBIDU
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		WAILITE
	Name of Aldeia		WATUBALA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	219830
		Y=	9054047
	Grid reference in Irr. scheme except for above facility	X=	219864
		Y=	9053924
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	250
		Width(m) for typical	0.50
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		48
9	Actual irrigation area (ha)		include"68"
10	Original or planned irrigation area (ha)		158.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- 4-a-80TR BIBIDU and 4-a-79 BUILIBA are targetting the same paddy field.	

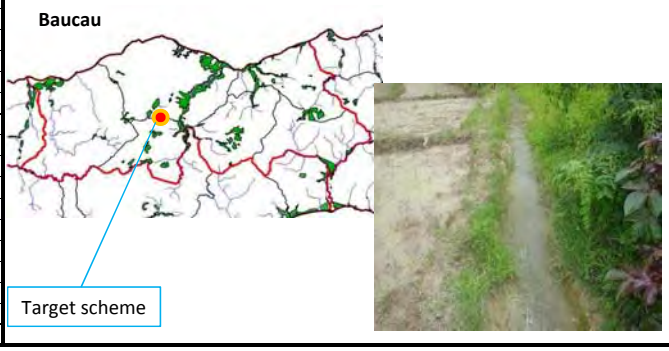
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons ✓ (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ULUISI(WAILILI) 4-a-81TR

1	No.		81
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		ULUISI(WAILILI)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		WAILILI
	Name of Aldeia		WATUBALA
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	219055
		Y=	9054519
	Grid reference in Irr. scheme except for above facility	X=	219436
		Y=	9054424
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	5.0
		Height(m)=	1.00
		Width/1span (m)=	0.50
		Number of span =	1
		Number of gates=	2
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	500
		Width(m) for typical	0.75
		Height(m)=	0.63
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		include"68"
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Intake is shared by 3 schemes 4-a-81TR ULU ISI (WAILILI), 4-a-68TR ULU ISI (GARIWAI) and 4-a-70TR ULU ISI (SAMALARI).		

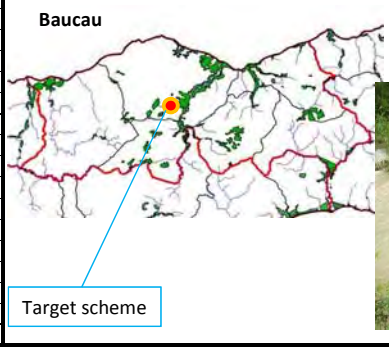
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILALA(WAILEWA) 4-a-82TR

1	No.		82
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		WAILALA(WAILEWA)
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BAHU-BURUMA
	Name of Aldeia		TEULALE-
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220317.48
		Y=	9064258.29
	Grid reference in Irr. scheme except for above facility	X=	220709
		Y=	9064112
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.00
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	0.50
		Number of Pond =	1
8	Number of house hold in service area		250
9	Actual irrigation area (ha)		include"1"
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	WATER SUPPLY
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go to get jobs in abroad.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	30
		●	
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DEIWAKE 4-a-83TR

1	No.		83
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		DEIWAKE
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BAHU
	Name of Aldeia		DEIWAKE
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	221018
		Y=	9065481
	Grid reference in Irr. scheme except for above facility	X=	221415
		Y=	9065555
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	1.80
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		45
9	Actual irrigation area (ha)		72.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country go to get jobs in abroad.		

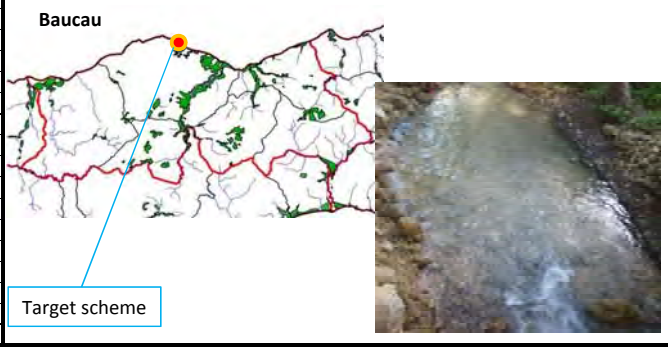
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	20
-			
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : 0 4-a-84TR

1	No.		84
2	Date of Survey		4-a-84TR
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		
10	Original or planned irrigation area (ha)		none
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) -		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : 0 4-a-85TR

1	No.		85
2	Date of Survey		4-a-84TR
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		
10	Original or planned irrigation area (ha)		none
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

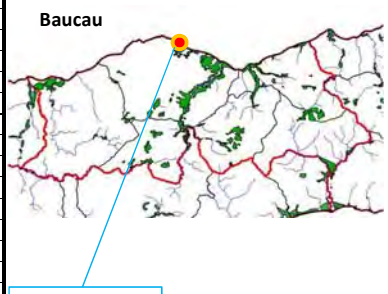
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)

Size of area (10 pts, more than 100ha)	-	Total Points
Evaluation of degree on immediate treatment		

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Wailetena 4-a-86TR

1	No.		86
2	Date of Survey		4/2/2014
3	Name of Irrigation scheme		Wailetena
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Osoala
	Name of Aldeia		Hoinewai
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	201135.33
		Y=	9046463.74
	Grid reference in Irr. scheme except for above facility	X=	201973
		Y=	9047456
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.50
		Number of span =	1
		Width/1span (m)=	0.85
		Number of gates=	1
	/ If Canal→	Length of main	250
		Width(m) for typical	0.85
		Height(m)=	0.55
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		62
9	Actual irrigation area (ha)		28.0
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Joao Da Cruz
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	20
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others - River bed is
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIDAREKAULALE 4-a-87TR

1	No.		87
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		WAIDAREKAULALE
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BOCOLI
	Name of Aldeia		LEKILOIWATU
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	206600
		Y=	9058744
	Grid reference in Irr. scheme except for above facility	X=	206148
		Y=	9058684
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	6.0
		Depth(m)=	0.90
		Number of Pond =	1
8	Number of house hold in service area		110
9	Actual irrigation area (ha)		15.0
10	Original or planned irrigation area (ha)		113.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	- Landslide on the
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- EGINO DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	20
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAISEMOWAISEMU 4-a-88TR

1	No.		88
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		WAISEMOWAISEMU
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BUCOLI
	Name of Aldeia		WAISIMO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	206750
		Y=	9060787
	Grid reference in Irr. scheme except for above facility	X=	206749
		Y=	9060820
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	-AQUEDUCT
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	330
		Width(m) for typical	1.00
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	9.0
		Depth(m)=	0.75
		Number of Pond =	1
8	Number of house hold in service area		85
9	Actual irrigation area (ha)		22.0
10	Original or planned irrigation area (ha)		113.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2008
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : KARABOE 4-a-89TR

1	No.		89
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		KARABOE
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BUCOLI
	Name of Aldeia		MAKADAI DE
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	207182
		Y=	9060592
	Grid reference in Irr. scheme except for above facility	X=	207075
		Y=	9060686
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	830
		Width(m) for typical	1.20
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	10 x 2.7
		Depth(m)=	0.30
		Number of Pond =	1
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		19.0
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- MARIO A. FREITAS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		- Pond cleaning
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Scheme has been abandoned for 10 years.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	20
		Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : KOBUWAI 4-a-90TR

1	No.		90
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		KOBUWAI
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BUCOLI
	Name of Aldeia		WAISEMO
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	206779
		Y=	9060837
	Grid reference in Irr. scheme except for above facility	X=	206749
		Y=	9060820
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	330
		Width(m) for typical	1.00
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	6.0
		Depth(m)=	0.40
		Number of Pond =	1
8	Number of house hold in service area		85
9	Actual irrigation area (ha)		include "88"
10	Original or planned irrigation area (ha)		113.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	30
●		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILILI 4-a-91TR

1	No.		91	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		19/3/2014			(Frequency) Every year	
3	Name of Irrigation scheme		WAILILI			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	✓
	Name of Sub-district		Baucau			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		WAILILI			Climate change (decrease of river flow	
	Name of Aldeia		WAILILI			Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme	
		Intake with gates				(Frequency) Every year	
		Pond/Lake/Spring	✓			A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	217702			Damage to irrigation structure	
		Y=	9056404			Others	
	Grid reference in Irr. scheme except for above facility	X=	217599			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9056223			(Reason)	
7	What kind of structure?	Weir				Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake	✓		a) In case of		
		Others			a-1) What kind of the WG or WUAs ?	WUAs	
	/ If Weir→	Length(m)=				Traditional WG	✓
		Height(m)=				Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =			a-3) Name of representative of WG or WUAs		
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=				No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
		Number of span =					US$/ha as water fee
		Width/1span (m)=				by Rice	kg/HH as member ship fee
		Number of gates=					kg/ha as water fee
	/ If Canal→	Length of main	30		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		Width(m) for typical	0.60			No	
		Height(m)=	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%
	/ If Pond or lake→	Diameter of Pond(m) =	4.0				for years
		Depth(m)=	0.75			Decrease	%
		Number of Pond =	3				for years
8	Number of house hold in service area		60		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		12.0			Gate maintenance	
10	Original or planned irrigation area (ha)		90.0			Canal Cleaning	✓
11	Original constructed year	Year's	Before 1970			Canal Rehabilitation	
		Exact year				Others	- Pond cleaning
		Rehabilitated year	1999		a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake					
		Intake with Gates					
		Pond/Lake	✓				
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓	16	Opinion or request by interviewee		
		Wet Masonry					
		Earth/Soil					
		Others					

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	
Broken	
Not functional by deterioration	✓
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	20
		Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Madoma 4-a-92TR

1	No.		92
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		Madoma
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Raha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192435.74
		Y=	9056482.12
	Grid reference in Irr. scheme except for above facility	X=	191926
		Y=	9057126
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	25.00
		Height(m)=	0.80
		Number of span =	0
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	800
		Width(m) for typical	1.00
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		295.0
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Januario Freitas
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Motagade(Metagade/Laleia river) 4-a-93TR

1	No.		93
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		Motagade(Metagade/Laleia river)
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse-Vila
	Name of Aldeia		Sukaer-Laran
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	188082.1
		Y=	9053600.31
	Grid reference in Irr. scheme except for above facility	X=	189242.89
		Y=	9057734.64
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	25.00
		Height(m)=	0.50
		Number of span =	
		Width/1span (m)=	1.80
		Number of gates=	
	/ If Canal→	Length of main	15,000
		Width(m) for typical	1.80
		Height(m)=	1.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		170
9	Actual irrigation area (ha)		Include"92"
10	Original or planned irrigation area (ha)		480.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14 Is there any major problems in the scheme ?

Shortage of Irrigation Water		✓
(Frequency)	Every year	✓
	A few in 5 years	
	A few in 10 years	
(Cause or Reason)	Not functional of irrigation structure	
	Climate change (decrease of river flow	✓
	Others	
Flood Damage to irrigation scheme		✓
(Frequency)	Every year	✓
	A few in 5 years	
	A few in 10 years	
(Contents of damage)	Wash out the land	✓
	Damage to irrigation structure	✓
	Others	
Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
Others		

15 Is there any Water Group (WG) or Water User Associations (WUAs) ?

	Yes	✓
	No	
a) In case of		
a-1) What kind of the WG or WUAs ?	WUAs	
	Traditional WG	✓
	Others	
a-2) How many number of WG or WUAs in the irrigation scheme ?		1
a-3) Name of representative of WG or WUAs		- Jacinto Freitas
a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	No	✓
/ if respondent select above "☑ Yes", which way do farmers pay the above fee? by Cash	US$/HH as member ship fee	
	US$/ha as water fee	
by Rice	kg/HH as member ship fee	
	kg/ha as water fee	
a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
	No	✓
/ if respondent select above "☑ Yes", How change of fee? Increase	%	
	for years	
Decrease	%	
	for years	
a-6) What is Gate operation		
Gate maintenance		
Canal Cleaning		✓
Canal Rehabilitation		
Others		
a-7) How often are the meeting held in a year?		1

b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.

The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
The WG or WUAs is under establishment. (Expected establishnent year)	
Not required to establish (Reason)	
Already expired (Reason)	
Others	

16 Opinion or request by interviewee

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reaso	✓
(Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure	✓
(Annual Cost US$)	
(Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	✓
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons	
(Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure	✓
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons	
(Details)	
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha) ●	Total Points	100
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WELABA TOGU 4-a-94TR

1	No.		94
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		WELABA TOGU
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		VEMASSE
	Name of Aldeia		RAHA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192433
		Y=	9058046
	Grid reference in Irr. scheme except for above facility	X=	192508
		Y=	9058244
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	25.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	200
		Width(m) for typical	1.00
		Height(m)=	2.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		37
9	Actual irrigation area (ha)		263.0
10	Original or planned irrigation area (ha)		100.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JOAO SERAN FREITAS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Bilimbi 4-a-95TR

1	No.		95
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		Bilimbi
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Raha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192630
		Y=	9058203
	Grid reference in Irr. scheme except for above facility	X=	192648
		Y=	9058265
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.20
		Number of span =	0
		Width/1span (m)=	1.20
		Number of gates=	0
	/ If Canal→	Length of main	150
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		10
9	Actual irrigation area (ha)		include "94"
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Adolfonso Soares
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Lavandaria 4-a-96TR

1	No.		96	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		2/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		Lavandaria				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Vemasse			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Vemasse				Climate change (decrease of river flow	✓
	Name of Aldeia		Raha				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	192414.2				Damage to irrigation structure	✓
		Y=	9056444.86				Others	
	Grid reference in Irr. scheme except for above facility	X=	192287			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9056820			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- Vitor Freitas
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=	20.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.80				US$/ha as water fee	
		Number of span =	0			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.60				kg/ha as water fee	
		Number of gates=	0		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
	/ If Canal→	Length of main	250				No	
		Width(m) for typical	1.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		25			Gate maintenance		
9	Actual irrigation area (ha)		19.0			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		140.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reaso	✓
		(Details)	- The Farmers
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	90
-		

Evaluation of degree on immediate treatment	A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WETEN 4-a-97TR

1	No.		97
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		WETEN
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		VEMASSE
	Name of Aldeia		RAHA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192238
		Y=	9057461
	Grid reference in Irr. scheme except for above facility	X=	192227
		Y=	9057906
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	21.00
		Number of span =	1
		Width/1span (m)=	1.20
		Number of gates=	0
	/ If Canal→	Length of main	115
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	0.50
		Number of Pond =	1
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		include "94"
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JOSE COREIA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others - River bed is
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Cau-Nura 4-a-98TR

1	No.		98	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		2/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		Cau-Nura				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Vemasse			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Osoala				Climate change (decrease of river flow	✓
	Name of Aldeia		Hoinewai				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	201131.47				Damage to irrigation structure	✓
		Y=	9046467.22				Others	
	Grid reference in Irr. scheme except for above facility	X=	201887			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9047294			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			2
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- Afonso Freitas
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=	5.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	1.00				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.25				kg/ha as water fee	
		Number of gates=	0		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
	/ If Canal→	Length of main	300				No	
		Width(m) for typical	2.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		✓
8	Number of house hold in service area		700			Gate maintenance		✓
9	Actual irrigation area (ha)		include "86"			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		180.0			Canal Rehabilitation		
11	Original constructed year	Year's	2010s			Others		
		Exact year	2012		a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : CAILALEBAE 4-a-99TR

1	No.		99
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		CAILALEBAE
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		BAHAMORI
	Name of Aldeia		NEOHO'O
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	213627
		Y=	9048372
	Grid reference in Irr. scheme except for above facility	X=	213719
		Y=	9048370
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	0.8
		Height(m)=	0.60
		Width/1span (m)=	32.50
		Number of span =	1
		Number of gates=	3
	/ If Intake→	Length(m)=	12.00
		Height(m)=	0.60
		Number of span =	3
		Width/1span (m)=	0.60
		Number of gates=	1
	/ If Canal→	Length of main	800
		Width(m) for typical	0.95
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		52.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	2000s
		Exact year	2007
		Rehabilitated year	2008
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			5
	a-3) Name of representative of WG or WUAs			- LEOPOLDO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			12
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

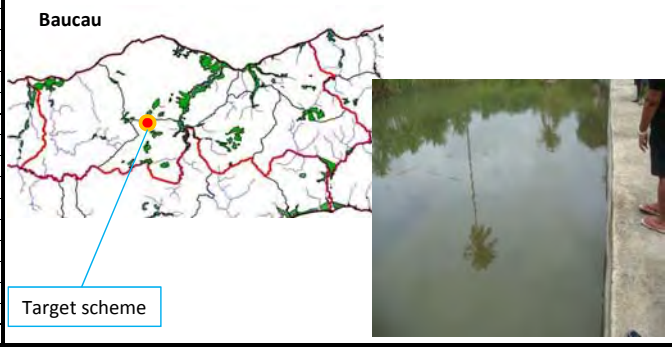
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	✓
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	- River bed is
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TULAWAKE UP 4-a-100TR

1	No.		100
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		TULAWAKE UP
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		VEMASSE
	Name of Aldeia		ORALAN
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192659.18
		Y=	9057047.45
	Grid reference in Irr. scheme except for above facility	X=	193372
		Y=	9058086
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.90
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	0
	/ If Canal→	Length of main	750
		Width(m) for typical	1.00
		Height(m)=	1.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		211.0
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- JOSE ANLASI
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Loe-Leki(Wailakama) 4-a-101TR

1	No.		101
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		Loe-Leki(Wailakama)
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Wailakama
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	205646
		Y=	9058727
	Grid reference in Irr. scheme except for above facility	X=	205482
		Y=	9058752
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	12.00
		Height(m)=	0.50
		Number of span =	
		Width/1span (m)=	2.00
		Number of gates=	
	/ If Canal→	Length of main	800
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		49.0
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	2000s
		Exact year	2007
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14 Is there any major problems in the scheme ?

Shortage of Irrigation Water		✓
(Frequency)	Every year	✓
	A few in 5 years	
	A few in 10 years	
(Cause or Reason)	Not functional of irrigation structure	
	Climate change (decrease of river flow	✓
	Others	
Flood Damage to irrigation scheme		
(Frequency)	Every year	
	A few in 5 years	
	A few in 10 years	
(Contents of damage)	Wash out the land	
	Damage to irrigation structure	
	Others	
Shortage of the workers (when plow, transplandt, harvest ect)		
(Reason)		
Others		

15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Recardo Freitas
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	✓
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

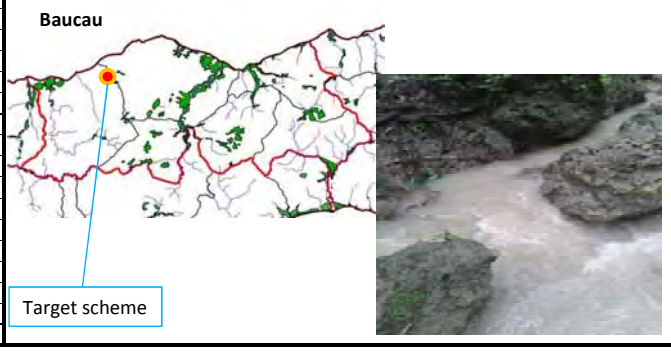
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	40
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Watu-Bala 4-a-102TR

1	No.		102	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		2/4/2014			(Frequency) Every year	✓
3	Name of Irrigation scheme		Watu-Bala			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Vemasse			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		Vemasse			Climate change (decrease of river flow	✓
	Name of Aldeia		Raha			Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	✓
		Pond/Lake/Spring				A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	192734			Damage to irrigation structure	✓
		Y=	9053161			Others	
	Grid reference in Irr. scheme except for above facility	X=	192591			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Y=	9053501			Others	
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Intake	✓			No	
		Canal	✓		a) In case of		
		Pond/Lake			a-1) What kind of the WG or WUAs ?	WUAs	
		Others				Traditional WG	✓
	/ If Weir→	Length(m)=				Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs		- Joao Freitas
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		Number of gates=				No	✓
	/ If Intake→	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash US$/HH as member ship fee	
		Height(m)=	2.00			US$/ha as water fee	
		Number of span =				by Rice kg/HH as member ship fee	
		Width/1span (m)=	0.80			kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
	/ If Canal→	Length of main	250			No	
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase %	
		Height(m)=	1.10			for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease %	
		Depth(m)=				for years	
		Number of Pond =			a-6) What is	Gate operation	
8	Number of house hold in service area		52			Gate maintenance	
9	Actual irrigation area (ha)		22.0			Canal Cleaning	✓
10	Original or planned irrigation area (ha)		150.0			Canal Rehabilitation	
11	Original constructed year	Year's	Before 1970			Others	
		Exact year			a-7) How often are the meeting held in a year?		1
		Rehabilitated year		12	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)	
		River Water	✓			Not required to establish (Reason)	
		Under Ground Water				Already expired (Reason)	
		Others				Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee		
		Weir (Wooden					
		Free intake	✓				
		Intake with Gates					
		Pond/Lake					
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete					
		Wet Masonry					
		Earth/Soil	✓				
		Others					

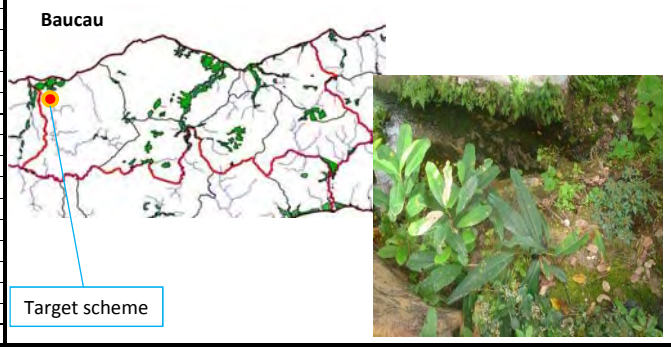
13 What's kind of problem for the structure or facility, and reason of problem ?		
Problems on Weir or Intake	✓	
Broken		
Not functional by deterioration		
Cannot operate the gate		
Cannot keep the water level for some reasons (Details)		
Obstruction of sand/stone (sedimentation)	✓	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
others		
Problems on Canal	✓	
Broken		
Not functional by deterioration		
Cannot operate the gate		
Cannot flow the water for some reasons (Details)		
Obstruction of sand/stone (sedimentation)	✓	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on Pond/Lake		
Broken		
Not functional by deterioration		
Cannot operate the outlet gate		
Cannot keep the water in pond for some reasons (Details)		
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)		
Others		
Problems on the other facilities		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) -		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Tulawake Down 4-a-103TR

1	No.		103
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		Tulawake Down
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Oralan
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	193184.72
		Y=	9058398.46
	Grid reference in Irr. scheme except for above facility	X=	194018
		Y=	9058441
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	1.30
		Number of span =	
		Width/1span (m)=	2.00
		Number of gates=	
	/ If Canal→	Length of main	100
		Width(m) for typical	0.80
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		17
9	Actual irrigation area (ha)		include "100"
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Jose Anlasi
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : 0 4-a-104TR

1	No.		104
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		0.0
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)

Size of area (10 pts, more than 100ha)	-	Total Points
Evaluation of degree on immediate treatment		

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Caibada 4-a-105TR

1	No.		105
2	Date of Survey		21/04/2014
3	Name of Irrigation scheme		Caibada
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		Bahamori
	Name of Aldeia		Caibada
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	221160
		Y=	9047390
	Grid reference in Irr. scheme except for above facility	X=	221243
		Y=	9047650
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	240
		Width(m) for typical	0.40
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		29
9	Actual irrigation area (ha)		22.0
10	Original or planned irrigation area (ha)		300.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

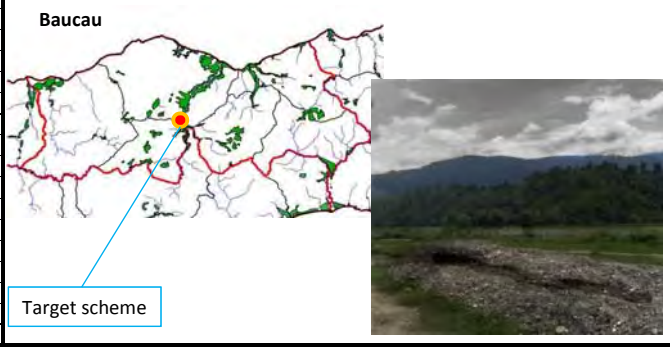
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ASALAIWARI 4-a-106TR

1	No.		106	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		ASALAIWARI				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baucau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		WAILILI				Climate change (decrease of river flow	✓
	Name of Aldeia		ASALAIWARI				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	219112				Damage to irrigation structure	
		Y=	9054967				Others	
	Grid reference in Irr. scheme except for above facility	X=	219250			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9054964			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- ANTONIO XIMENES
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
	/ If Canal→	Length of main	90				No	
		Width(m) for typical	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.40				for years	
	/ If Pond or lake→	Diameter of Pond(m) =	4.0			Decrease	%	
		Depth(m)=	0.60				for years	
		Number of Pond =	1		a-6) What is	Gate operation		
8	Number of house hold in service area		29			Gate maintenance		
9	Actual irrigation area (ha)		include"68"			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		32.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake	✓					
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	50
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : MANULAWAIRABIN 4-a-107TR

1	No.		107
2	Date of Survey		19/3/2014
3	Name of Irrigation scheme		MANULAWAIRABIN
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		WAILILI
	Name of Aldeia		WEMADAE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	217069
		Y=	9054559
	Grid reference in Irr. scheme except for above facility	X=	217125
		Y=	9054673
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	620
		Width(m) for typical	1.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	0.80
		Number of Pond =	1
8	Number of house hold in service area		13
9	Actual irrigation area (ha)		include"75"
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- ALFREDO FREITAS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	
Not functional by deterioration	✓
Cannot operate the gate	
Cannot keep the water level for some reaso	✓
(Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
others	
Problems on Canal	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons	
(Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	✓
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some rea	✓
(Details)	
High maintenance cost of structure	
(Annual Cost US$)	
(Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	
Size of area (10 pts, more than 100ha)		Total Points	70
●			
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : 0 4-a-108TR

1	No.		108	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey					(Frequency)	Every year	
3	Name of Irrigation scheme						A few in 5 years	
4	Name of District						A few in 10 years	
	Name of Sub-district					(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco						Climate change (decrease of river flow	
	Name of Aldeia						Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=					Damage to irrigation structure	
		Y=					Others	
	Grid reference in Irr. scheme except for above facility	X=				Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=				(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Canal	✓				No	
		Pond/Lake			a) In case of			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
		Width(m) for typical					No	
		Height(m)=			/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area				a-6) What is	Gate operation		
9	Actual irrigation area (ha)		part of "106"			Gate maintenance		
10	Original or planned irrigation area (ha)					Canal Cleaning		
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil						
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) ●		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BADUCASA 4-a-109TR

1	No.		109	
2	Date of Survey		21/3/2014	
3	Name of Irrigation scheme		BADUCASA	
4	Name of District		Baucau	
	Name of Sub-district		Baucau	
5	Name of Suco		WAILILI	
	Name of Aldeia		WATUBALA	
6	Observing location of the Grid	Free Intake		
		Intake with gates	✓	
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	219055	
		Y=	9054519	
	Grid reference in Irr. scheme except for above facility	X=	219261	
		Y=	9053885	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=	5.0	
		Height(m)=	1.50	
		Width/1span (m)=	0.50	
		Number of span =	1	
		Number of gates=	2	
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	1,300	
		Width(m) for typical	0.50	
		Height(m)=	0.50	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		30	
9	Actual irrigation area (ha)		include"68"	
10	Original or planned irrigation area (ha)		40.0	
11	Original constructed year	Year's	Before 1970	
		Exact year		
		Rehabilitated year	2012	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓	
		Weir (Wooden		
		Free intake		
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓	
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	50
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : HAEQALA 4-a-110TR

1	No.		110
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		HAEQALA
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		WAI LAHA
	Name of Aldeia		CAIHORILALE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	210803
		Y=	9041058
	Grid reference in Irr. scheme except for above facility	X=	211372
		Y=	9041513
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.55
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	1.10
		Number of gates=	0
	/ If Canal→	Length of main	1,500
		Width(m) for typical	1.10
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		145.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	2000s
		Exact year	2007
		Rehabilitated year	2008
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			5
	a-3) Name of representative of WG or WUAs			- LEOPOLDO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			12
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reaso	✓
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	✓
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	- River bed is
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	100
●		
Evaluation of degree on immediate treatment		A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BAEMETA 4-a-111TR

1	No.		111
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		BAEMETA
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		BAHAMORI
	Name of Aldeia		UATHOKE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	214836
		Y=	9047751
	Grid reference in Irr. scheme except for above facility	X=	214909
		Y=	9047839
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.80
		Height(m)=	0.25
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		90
9	Actual irrigation area (ha)		127.0
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- SACP
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	
Broken	
Not functional by deterioration	✓
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha) ●	Total Points	30
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LIAKURA 4-a-112TR

1	No.		112
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		LIAKURA
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		BHAMORI
	Name of Aldeia		DARLATA
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220691
		Y=	9048112
	Grid reference in Irr. scheme except for above facility	X=	220639
		Y=	9048288
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	7.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	6.00
		Number of gates=	2
	/ If Canal→	Length of main	300
		Width(m) for typical	1.70
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		70
9	Actual irrigation area (ha)		34.0
10	Original or planned irrigation area (ha)		100.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Intake was washed out by flood in 2012 and abandoned since that time.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

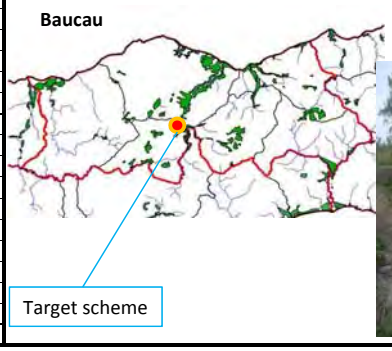
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GALATA BAHAMORI 4-a-113TR

1	No.		113
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		GALATA BAHAMORI
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		BAHAMORI
	Name of Aldeia		GALATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	202799.88
		Y=	9047177.83
	Grid reference in Irr. scheme except for above facility	X=	203383.17
		Y=	9046837.3
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		56
9	Actual irrigation area (ha)		37.0
10	Original or planned irrigation area (ha)		265.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 4-a-113 TRGALATA BAHAMORI and 4-a-121 GALATA UATUHACO share same intake.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WEGABUILUI 4-a-114TR

1	No.		114
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		WEGABUILUI
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		BAHAMORI
	Name of Aldeia		NEOHO'O
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	213423
		Y=	9048047
	Grid reference in Irr. scheme except for above facility	X=	213445
		Y=	9048100
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	60.0
		Depth(m)=	10.00
		Number of Pond =	1
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		include "99"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		- Sometime pond becomes dry.
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- TEUTONIO DA SILVA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			12
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Sometime water level is lower than the paddy field.

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	✓
	Cannot keep the water level for some reasons	
	(Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure	✓
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	
	Cannot flow the water for some reasons	
	(Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure	
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	✓
	Broken	
	Not functional by deterioration	✓
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons	
	(Details)	
	High maintenance cost of structure	
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	Others	- Sometime water level is lower than the paddy field.
	Problems on the other facilities	

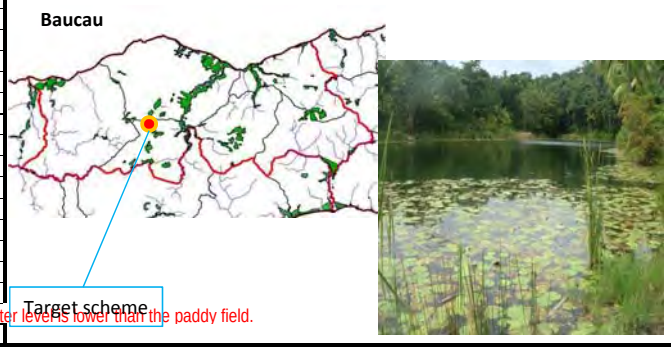
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	50
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAILERA 4-a-115TR

1	No.		115
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAILERA
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		WAILARA
	Name of Aldeia		CAWBAI
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	213025
		Y=	9044759
	Grid reference in Irr. scheme except for above facility	X=	213025
		Y=	9044769
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.50
		Height(m)=	0.08
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	0.50
		Number of Pond =	1
8	Number of house hold in service area		36
9	Actual irrigation area (ha)		186.0
10	Original or planned irrigation area (ha)		26.0
11	Original constructed year	Year's	2010s
		Exact year	2011
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		- Spring rehabilitation
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	30
	Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIHU 4-a-116TR

1	No.		116
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		WAIHU
4	Name of District		Baucau
	Name of Sub-district		Benilale
5	Name of Suco		WAI LAHA
	Name of Aldeia		UTO ASSA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	212242
		Y=	9041560
	Grid reference in Irr. scheme except for above facility	X=	212507
		Y=	9041622
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	0.68
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		include "110"
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	1970s
		Exact year	1970
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			5
	a-3) Name of representative of WG or WUAs			- AILEI
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha) ●	Total Points	50
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIBADU 4-a-117TR

1	No.		117
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		WAIBADU
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		UALAUAI LAHA
	Name of Aldeia		CAI HURULALE
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	212909
		Y=	9041366
	Grid reference in Irr. scheme except for above facility	X=	212924
		Y=	9041390
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	1.40
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		include "110"
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			- DOMINGOS GUTERRES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	30
●		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIMO'O 4-a-118TR

1	No.		118
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		WAIMO'O
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		WAI LAHA
	Name of Aldeia		LUHA OLI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	213275
		Y=	9041880
	Grid reference in Irr. scheme except for above facility	X=	213277
		Y=	9041876
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	3.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.37
		Number of gates=	0
	/ If Canal→	Length of main	400
		Width(m) for typical	0.60
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		38
9	Actual irrigation area (ha)		include "110"
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			- HAKIAK GROUPS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Farmers do second cropping but it depends on the weather condition.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	30
●		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIKINBO'O 4-a-119TR

1	No.		119
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAIKINBO'O
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		FATULIA
	Name of Aldeia		WAITUBUNO
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	209509
		Y=	9040753
	Grid reference in Irr. scheme except for above facility	X=	209510
		Y=	9040741
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	50
		Width(m) for typical	0.90
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		4
9	Actual irrigation area (ha)		2.0
10	Original or planned irrigation area (ha)		2.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	20
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIMI-WAISISILAU 4-a-120TR

1	No.		120
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAIMI-WAISISILAU
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		FATULUA
	Name of Aldeia		WAITUBUNO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	209058.37
		Y=	9040191.51
	Grid reference in Irr. scheme except for above facility	X=	209109
		Y=	9040434
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	4.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	
	/ If Canal→	Length of main	250
		Width(m) for typical	0.90
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		19.0
10	Original or planned irrigation area (ha)		10.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GALATA UATUHACO 4-a-121TR

1	No.		121
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		GALATA UATUHACO
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		UATUHACO
	Name of Aldeia		GALATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	220963
		Y=	9045867
	Grid reference in Irr. scheme except for above facility	X=	220674
		Y=	9046211
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		172.0
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 4-a-113 TRGALATA BAHAMORI and 4-a-121 GALATA UATUHACO share same intake.		

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

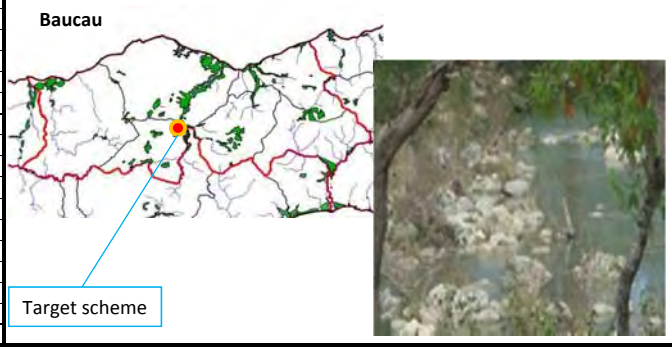
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment: **B**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : CAIGRANU 4-a-122TR

1	No.		122
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		CAIGRANU
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		UATO HACO
	Name of Aldeia		AUTO ASSA
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	211692
		Y=	9041567
	Grid reference in Irr. scheme except for above facility	X=	211692
		Y=	9041576
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	1.00
		Height(m)=	0.45
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		include "110"
10	Original or planned irrigation area (ha)		22.0
11	Original constructed year	Year's	1970s
		Exact year	1970
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Same as contact person
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	

Size of area (10 pts, more than 100ha)	Total Points	50
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : TALIBACA 4-a-123TR

1	No.		123
2	Date of Survey		13/2/2014
3	Name of Irrigation scheme		TALIBACA
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		UATO HACO
	Name of Aldeia		AUTO ASSA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	212207
		Y=	9041737
	Grid reference in Irr. scheme except for above facility	X=	212195
		Y=	9041727
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	4.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	1.50
		Number of gates=	0
	/ If Canal→	Length of main	1,000
		Width(m) for typical	1.00
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		29
9	Actual irrigation area (ha)		include "110"
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	1990s
		Exact year	1995
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			4
	a-3) Name of representative of WG or WUAs			- CAISAN
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure ✓ (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

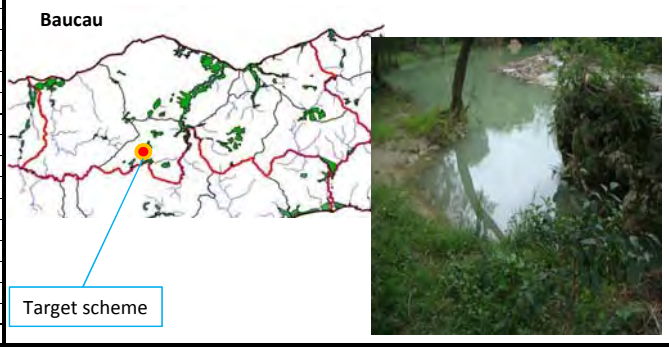
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIWALUBERE 4-a-124TR

1	No.		124
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAIWALUBERE
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		WAI - HU
	Name of Aldeia		LULIBAW
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	216154
		Y=	9040432
	Grid reference in Irr. scheme except for above facility	X=	216254
		Y=	9040626
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,800
		Width(m) for typical	0.25
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	8.0
		Depth(m)=	
		Number of Pond =	3
8	Number of house hold in service area		100
9	Actual irrigation area (ha)		139.0
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- VENANCIO MARCOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Intake is shared by 3 schemes, 4-a-125TR WAI OLI, 4-a-126TR WAISUSU LETEN, 4-a-124TR WAIWA LUBERE.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAI OLI 4-a-125TR

1	No.		125	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		26/3/2014			(Frequency) Every year	✓
3	Name of Irrigation scheme		WAI OLI			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Venilale			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		WAI - HU			Climate change (decrease of river flow	✓
	Name of Aldeia		LULIBAW			Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	✓
		Pond/Lake/Spring	✓			A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	216154			Damage to irrigation structure	
		Y=	9040432			Others	
	Grid reference in Irr. scheme except for above facility	X=	215446			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9041015			(Reason)	
7	What kind of structure?	Weir				Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake	✓		a) In case of		
		Others			a-1) What kind of the WG or WUAs ?	WUAs	
	/ If Weir→	Length(m)=				Traditional WG	✓
		Height(m)=				Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =			a-3) Name of representative of WG or WUAs		- BASCO TEKE
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=				No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		Number of span =				by Cash: US$/ha as water fee	
		Width/1span (m)=				by Rice: kg/HH as member ship fee	
		Number of gates=				by Rice: kg/ha as water fee	
	/ If Canal→	Length of main	1,000		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		Width(m) for typical	0.25			No	
		Height(m)=	0.50		/ if respondent select above "☑ Yes", How change of fee?	Increase %	
	/ If Pond or lake→	Diameter of Pond(m) =	8.0			for years	
		Depth(m)=				Decrease %	
		Number of Pond =	3			for years	
8	Number of house hold in service area		100		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		include "124"			Gate maintenance	
10	Original or planned irrigation area (ha)		200.0			Canal Cleaning	✓
11	Original constructed year	Year's				Canal Rehabilitation	
		Exact year				Others	
		Rehabilitated year			a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water				The WG or WUAs is under establishment. (Expected establishment year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake					
		Intake with Gates					
		Pond/Lake	✓				
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee	- Intake is shared by 3 schemes, 4-a-125TR WAI OLI, 4-a-126TR WAISUSU LETEN, 4-a-124TR WAIWA LUBERE.	
		Wet Masonry					
		Earth/Soil	✓				
		Others					

13 What's kind of problem for the structure or facility, and reason of problem ?	
Problems on Weir or Intake	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAISUSULETEN 4-a-126TR

1	No.		126
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAISUSULETEN
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		WAI - HU
	Name of Aldeia		LULIBAW
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	216154
		Y=	9040432
	Grid reference in Irr. scheme except for above facility	X=	215796
		Y=	9040671
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,100
		Width(m) for typical	0.25
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		100
9	Actual irrigation area (ha)		include "124"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- VENANCIO MARCOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Intake is shared by 3 schemes, 4-a-125TR WAI OLI, 4-a-126TR WAISUSU LETEN, 4-a-124TR WAIWA LUBERE.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAIKINBO'O 4-a-127TR

1	No.		127
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAIKINBO'O
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		FATLEIA
	Name of Aldeia		WAITUBUNO
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	209437.81
		Y=	9040821.5
	Grid reference in Irr. scheme except for above facility	X=	209349.36
		Y=	9041617.86
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	5.2 X 5.5
		Height(m)=	1.00
		Width/1span (m)=	20.00
		Number of span =	1
		Number of gates=	1
	/ If Intake→	Length(m)=	4.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	2.20
		Number of gates=	1
	/ If Canal→	Length of main	300
		Width(m) for typical	0.50
		Height(m)=	0.08
	/ If Pond or lake→	Diameter of Pond(m) =	8.0
		Depth(m)=	
		Number of Pond =	3
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		76.0
10	Original or planned irrigation area (ha)		82.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WAISULI 4-a-128TR

1	No.		128
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		WAISULI
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		FATUHIA
	Name of Aldeia		BAHADATU
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	207739
		Y=	9041513
	Grid reference in Irr. scheme except for above facility	X=	207717
		Y=	9041629
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	5,000
		Width(m) for typical	0.65
		Height(m)=	0.20
	/ If Pond or lake→	Diameter of Pond(m) =	3.0
		Depth(m)=	0.10
		Number of Pond =	4
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		18.0
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some rea (Details)	✓ - Not functionl
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		
Size of area (10 pts, more than 100ha)	-	Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : SAMALIULIQUIDIGA I 4-a-129TR

1	No.		129
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		SAMALIULIQUIDIGA I
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		LARISULA
	Name of Aldeia		BIBIDAE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	248230
		Y=	9043033
	Grid reference in Irr. scheme except for above facility	X=	249534
		Y=	9042189
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,500
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		227
9	Actual irrigation area (ha)		364.0
10	Original or planned irrigation area (ha)		347.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- MATEUS DA SILVA DE JESUS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Scheme Is under construction.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Afalita I(Laarisula) 4-a-130TR

1	No.		130
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Afalita I(Laarisula)
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		Larisula
	Name of Aldeia		Uru
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	252690
		Y=	9041846
	Grid reference in Irr. scheme except for above facility	X=	251699
		Y=	9041036
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,800
		Width(m) for typical	1.20
		Height(m)=	2.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		227
9	Actual irrigation area (ha)		Include"129"
10	Original or planned irrigation area (ha)		170.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

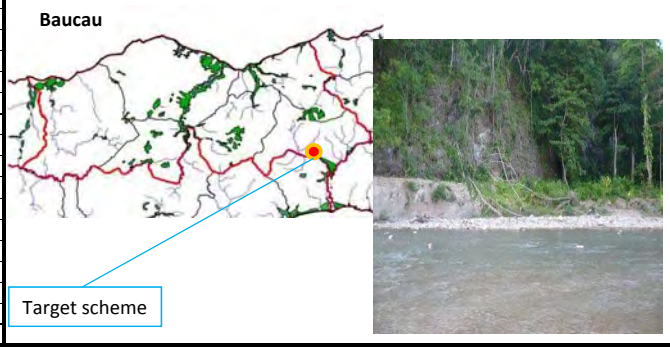
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha)		Total Points	40
●			
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Afalita II 4-a-131TR

1	No.		131
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Afalita II
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		Larisula
	Name of Aldeia		Uru
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	251990
		Y=	9041186
	Grid reference in Irr. scheme except for above facility	X=	251806
		Y=	9041042
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	150
		Width(m) for typical	2.50
		Height(m)=	1.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		227
9	Actual irrigation area (ha)		Include"129"
10	Original or planned irrigation area (ha)		125.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Lorenco Fernandes
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

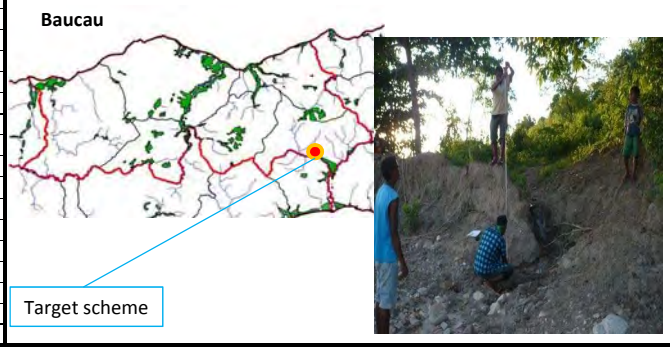
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Afalita III 4-a-132TR

1	No.		132	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/2/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		Afalita III				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baguia			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		Larisula				Climate change (decrease of river flow	✓
	Name of Aldeia		Uru				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	252103.17				Damage to irrigation structure	✓
		Y=	9041257.24				Others	
	Grid reference in Irr. scheme except for above facility	X=	251716			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9040959			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- Lorenco Fernandes
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	200		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
		Width(m) for typical	2.50				No	
		Height(m)=	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		227		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		Include"129"			Gate maintenance		
10	Original or planned irrigation area (ha)		60.0			Canal Cleaning		✓
11	Original constructed year	Year's	Before 1970			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal", show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

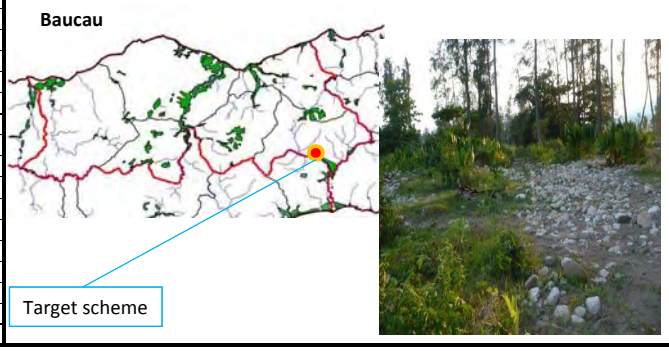
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment	C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Lequidiga II 4-a-133TR

1	No.		133
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Lequidiga II
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		Larisula
	Name of Aldeia		Bibidae
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	248219.18
		Y=	9042958.86
	Grid reference in Irr. scheme except for above facility	X=	250275
		Y=	9041493
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	2.50
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		227
9	Actual irrigation area (ha)		Include"129"
10	Original or planned irrigation area (ha)		347.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Mateus Da Silva de Jesus
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	
Broken	
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	✓
Not functional by deterioration	✓
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

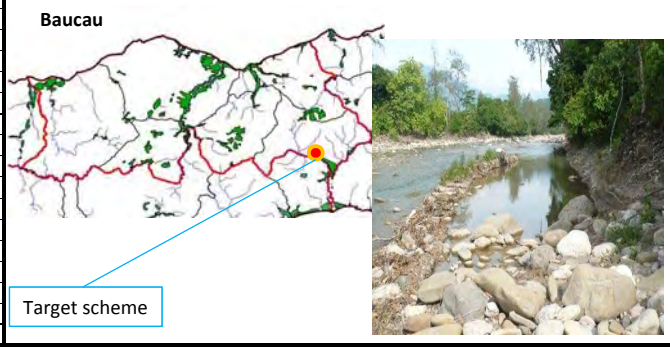
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Lequidiga III 4-a-134TR

1	No.		134
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		Lequidiga III
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		Larisula
	Name of Aldeia		Bibidae
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	249920.99
		Y=	9041774.42
	Grid reference in Irr. scheme except for above facility	X=	250261
		Y=	9041432
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	2.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		227
9	Actual irrigation area (ha)		Include"129"
10	Original or planned irrigation area (ha)		347.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Mateus Da Silva De Jesus
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons ✓
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

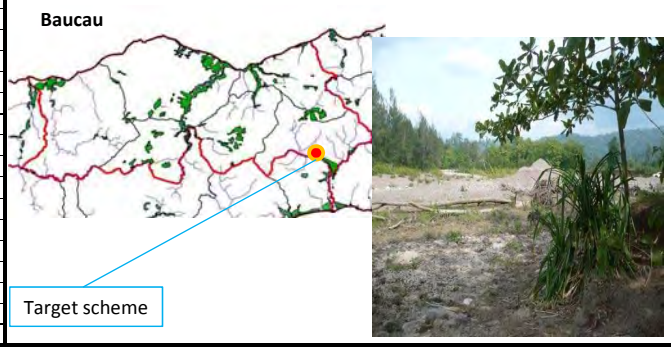
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●

Size of area (10 pts, more than 100ha)	Total Points	80
●		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LESUN 4-a-135TR

1	No.		135
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		LESUN
4	Name of District		Baucau
	Name of Sub-district		Baguia
5	Name of Suco		LARISULA
	Name of Aldeia		URU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	254372.39
		Y=	9045205.76
	Grid reference in Irr. scheme except for above facility	X=	254093.82
		Y=	9043766.4
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	200
		Width(m) for typical	0.70
		Height(m)=	0.25
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		82.0
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- JOSE DE DEUS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishment year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

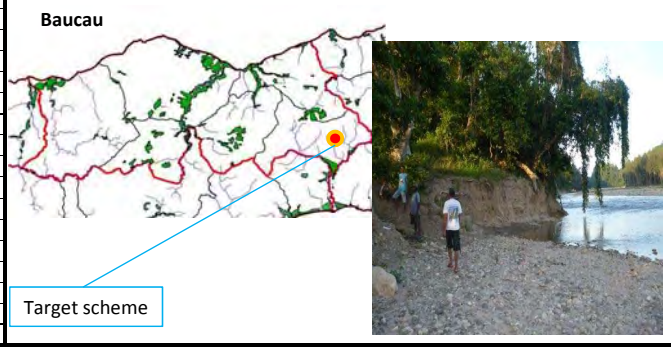
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : RUTA LETEMUMU 4-a-136TR

1	No.		136
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		RUTA LETEMUMU
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LETEMU
	Name of Aldeia		RUTA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	230778
		Y=	9046310
	Grid reference in Irr. scheme except for above facility	X=	230199
		Y=	9046619
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	1.00
		Height(m)=	0.80
		Number of span =	0
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	410
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		52
9	Actual irrigation area (ha)		81.0
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.		

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	✓
Not functional by deterioration	
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	✓
Not functional by deterioration	
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

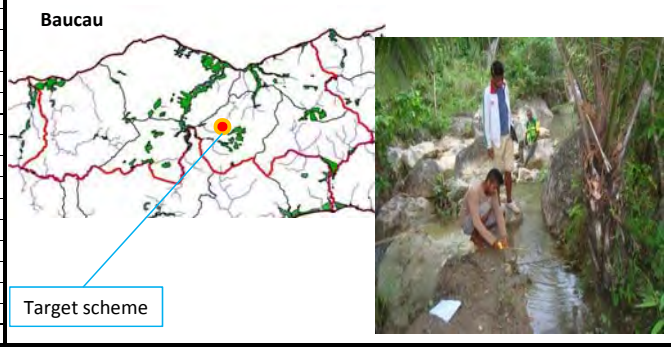
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	50
-		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BUTILEO 4-a-137TR

1	No.		137
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		BUTILEO
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		BAGUIA
	Name of Aldeia		BUTILEO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	231738
		Y=	9048408
	Grid reference in Irr. scheme except for above facility	X=	231494
		Y=	9048766
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	4.00
		Height(m)=	0.80
		Number of span =	
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	520
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		47
9	Actual irrigation area (ha)		include"4"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- DANIEL XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : GUNINEI 4-a-138TR

1	No.		138
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		GUNINEI
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LACULIU
	Name of Aldeia		LACUDALA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	231964
		Y=	9048116
	Grid reference in Irr. scheme except for above facility	X=	231672
		Y=	9048138
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.80
		Number of span =	
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		include"4"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Castro Belo
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishment year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BOISI 4-a-139TR

1	No.		139
2	Date of Survey		4/4/2014
3	Name of Irrigation scheme		BOISI
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LELALAI
	Name of Aldeia		DESA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	224042
		Y=	9046853
	Grid reference in Irr. scheme except for above facility	X=	223764
		Y=	9046751
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	1.00
		Height(m)=	0.80
		Number of span =	0
		Width/1span (m)=	1.20
		Number of gates=	0
	/ If Canal→	Length of main	900
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		include"23"
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			- HERMEGILDO DOS SANTOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : BUIBERE 4-a-140TR

1	No.		140
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		BUIBERE
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		LACULIU
	Name of Aldeia		LACUDALA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	230862.02
		Y=	9046462.42
	Grid reference in Irr. scheme except for above facility	X=	230662.36
		Y=	9045832.4
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	4.00
		Height(m)=	0.50
		Number of span =	0
		Width/1span (m)=	0.60
		Number of gates=	0
	/ If Canal→	Length of main	600
		Width(m) for typical	0.60
		Height(m)=	0.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		16
9	Actual irrigation area (ha)		include"8"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		- COSME BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.	

13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons	
	(Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure	
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons	
	(Details)	
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure	
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons	
	(Details)	
	High maintenance cost of structure	
	(Annual Cost US$)	
	(Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

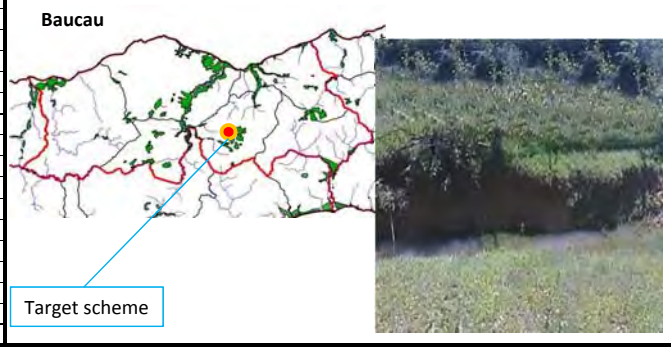
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : RUTA BAGUIA 4-a-141TR

1	No.		141
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		RUTA BAGUIA
4	Name of District		Baucau
	Name of Sub-district		Quelicai
5	Name of Suco		BAGUIA
	Name of Aldeia		SARAIDA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	230778
		Y=	9046310
	Grid reference in Irr. scheme except for above facility	X=	229883
		Y=	9046761
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.80
		Number of span =	
		Width/1span (m)=	1.00
		Number of gates=	
	/ If Canal→	Length of main	320
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		60
9	Actual irrigation area (ha)		include"136"
10	Original or planned irrigation area (ha)		43.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- FELIPE CONCEICAO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Tequinomata 4-a-142TR

1	No.		142	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		21/04/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		Tequinomata				A few in 5 years	
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Laga			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Tequinomata				Climate change (decrease of river flow	✓
	Name of Aldeia		Kaisalari-				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	235232				Damage to irrigation structure	
		Y=	9062424				Others	
	Grid reference in Irr. scheme except for above facility	X=	235228			Shortage of the workers (when plow, transplandt, harvest ect)		
		Y=	9062635			(Reason)		
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
		Width(m) for typical	1.20				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		175		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"37"			Gate maintenance		
10	Original or planned irrigation area (ha)		600.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishment year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : CASAMETA 4-a-143TR

1	No.		143
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		CASAMETA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SEICAL
	Name of Aldeia		CASAMETA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	224502
		Y=	9058142
	Grid reference in Irr. scheme except for above facility	X=	225969
		Y=	9058914
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	2.00
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	3,000
		Width(m) for typical	3.20
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		170
9	Actual irrigation area (ha)		259.0
10	Original or planned irrigation area (ha)		750.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- MARIO XIMENES BELO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		

Evaluation of degree on immediate treatment	B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Welaban Rasa 4-a-add-1

1	No.		144
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		Welaban Rasa
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Raha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192344
		Y=	9057581
	Grid reference in Irr. scheme except for above facility	X=	192226
		Y=	9057907
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.20
		Number of span =	
		Width/1span (m)=	1.20
		Number of gates=	
	/ If Canal→	Length of main	150
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		include "94"
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	2010s
		Exact year	2012
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Mateus Correia
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13 What's kind of problem for the structure or facility, and reason of problem ?

Problems on Weir or Intake	✓
Broken	✓
Not functional by deterioration	✓
Cannot operate the gate	
Cannot keep the water level for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
others	
Problems on Canal	✓
Broken	
Not functional by deterioration	✓
Cannot operate the gate	
Cannot flow the water for some reasons (Details)	
Obstruction of sand/stone (sedimentation)	✓
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on Pond/Lake	
Broken	
Not functional by deterioration	
Cannot operate the outlet gate	
Cannot keep the water in pond for some reasons (Details)	
High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
Others	
Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LUBNAS

1	No.		145
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		LUBNAS
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SOBA
	Name of Aldeia		BUTUFALU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	238428
		Y=	9060694
	Grid reference in Irr. scheme except for above facility	X=	238053
		Y=	9060720
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	320
		Width(m) for typical	2.10
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		85
9	Actual irrigation area (ha)		26.0
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

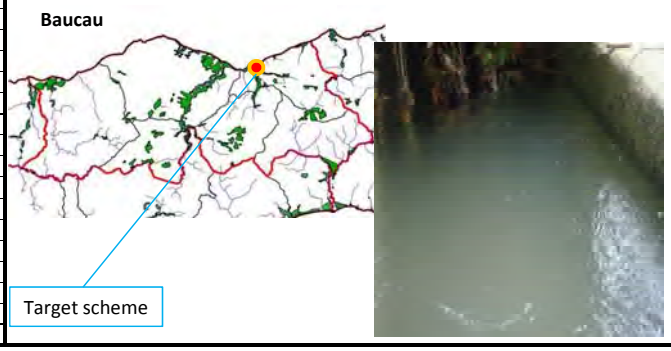
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha)	Total Points	20
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : CAIBADA 4-a-add-3

1	No.		146
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		CAIBADA
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		BAHU
	Name of Aldeia		BAHU
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	217800
		Y=	9064791
	Grid reference in Irr. scheme except for above facility	X=	217917
		Y=	9064660
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	1.00
		Number of Pond =	1
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		3.0
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2007
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		✓
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

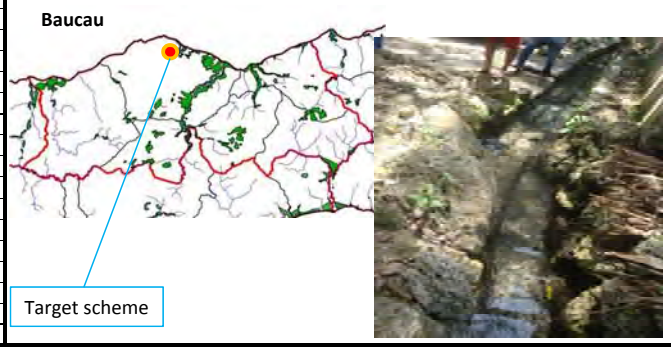
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	20
-		

Evaluation of degree on immediate treatment: **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : DURABUTI 4-a-add-4

1	No.		147
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		DURABUTI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SAGADATE
	Name of Aldeia		AURABA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	249355
		Y=	9058875
	Grid reference in Irr. scheme except for above facility	X=	249529
		Y=	9058966
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	200
		Width(m) for typical	1.80
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		8
9	Actual irrigation area (ha)		8.0
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- CELESTINO DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- Farmers request government to offer support to rehabilitate irrigation scheme.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha)	Total Points	30
-		
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : IRA LUTU 4-a-add-5

1	No.		148
2	Date of Survey		10/3/2014
3	Name of Irrigation scheme		IRA LUTU
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		Saelari
	Name of Aldeia		Teru bala
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	246332
		Y=	9060475
	Grid reference in Irr. scheme except for above facility	X=	246347
		Y=	9060450
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	130
		Width(m) for typical	0.30
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		include"26"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		

Size of area (10 pts, more than 100ha) ●	Total Points	30
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : LALEIDANA

1	No.		149
2	Date of Survey		21/2/2014
3	Name of Irrigation scheme		LALEIDANA
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		SAMALARI
	Name of Aldeia		ERUMATA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	244614
		Y=	9066447
	Grid reference in Irr. scheme except for above facility	X=	244683
		Y=	9066698
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	170
		Width(m) for typical	0.80
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		include"30"
10	Original or planned irrigation area (ha)		24.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Joao Ximenes
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishment year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Lo'o-Gata 4-a-add-7

1	No.		150
2	Date of Survey		14/2/2014
3	Name of Irrigation scheme		Lo'o-Gata
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		ATELARI
	Name of Aldeia		LAWA-DAE
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	246994
		Y=	9051921
	Grid reference in Irr. scheme except for above facility	X=	247226.84
		Y=	9051016.21
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	230
		Width(m) for typical	1.80
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		230
9	Actual irrigation area (ha)		168.0
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

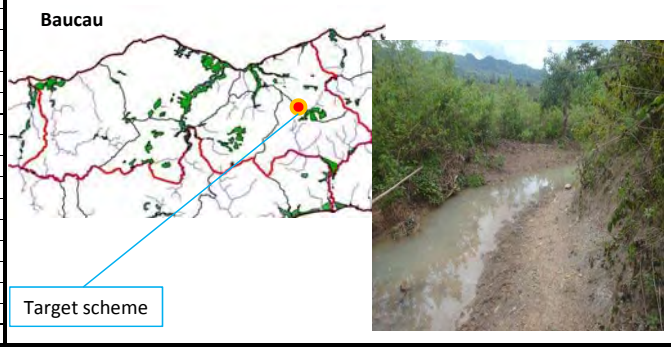
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot flow the water for some reasons ✓
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	**90**
Evaluation of degree on immediate treatment			**A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ARAMI 4-a-add-8

1	No.		151	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		26/3/2014			(Frequency) Every year	✓
3	Name of Irrigation scheme		ARAMI			A few in 5 years	
4	Name of District		Baucau			A few in 10 years	
	Name of Sub-district		Venilale			(Cause or Reason) Not functional of irrigation structure	
5	Name of Suco		WATUHACO			Climate change (decrease of river flow	✓
	Name of Aldeia		WATU - ASA			Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	✓
		Pond/Lake/Spring				A few in 5 years	
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	212657			Damage to irrigation structure	
		Y=	9044078			Others	
	Grid reference in Irr. scheme except for above facility	X=	212608			Shortage of the workers (when plow, transplandt, harvest ect)	
		Y=	9044142			(Reason)	
7	What kind of structure?	Weir	✓			Others	
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		Canal	✓			No	
		Pond/Lake			a) In case of		
		Others			a-1) What kind of the WG or WUAs ?	WUAs	
	/ If Weir→	Length(m)=	35.0			Traditional WG	✓
		Height(m)=	0.75			Others	
		Width/1span (m)=	1.20		a-2) How many number of WG or WUAs in the irrigation scheme ?		1
		Number of span =	1		a-3) Name of representative of WG or WUAs		
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
	/ If Intake→	Length(m)=				No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		Number of span =				by Cash: US$/ha as water fee	
		Width/1span (m)=				by Rice: kg/HH as member ship fee	
		Number of gates=				by Rice: kg/ha as water fee	
	/ If Canal→	Length of main	30		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		Width(m) for typical	0.10			No	
		Height(m)=	0.10		/ if respondent select above "☑ Yes", How change of fee?	Increase %	
	/ If Pond or lake→	Diameter of Pond(m) =				for years	
		Depth(m)=				Decrease %	
		Number of Pond =				for years	
8	Number of house hold in service area		25		a-6) What is	Gate operation	
9	Actual irrigation area (ha)		include "115"			Gate maintenance	
10	Original or planned irrigation area (ha)		20.0			Canal Cleaning	✓
11	Original constructed year	Year's				Canal Rehabilitation	
		Exact year				Others	
		Rehabilitated year			a-7) How often are the meeting held in a year?		1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water	✓			The WG or WUAs is under establishment. (Expected establishment year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake	✓				
		Intake with Gates					
		Pond/Lake					
		Canal	✓				
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee		
		Wet Masonry					
		Earth/Soil	✓				
		Others					

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha)	Total Points	40
●		

Evaluation of degree on immediate treatment **C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : ALERE GILARI 4-a-add-9

1	No.		152
2	Date of Survey		20/3/2014
3	Name of Irrigation scheme		ALERE GILARI
4	Name of District		Baucau
	Name of Sub-district		Laga
5	Name of Suco		TEQUINOMATA
	Name of Aldeia		SAMAGUIA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	234928
		Y=	9057455
	Grid reference in Irr. scheme except for above facility	X=	235098
		Y=	9057716
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	8.00
		Height(m)=	0.90
		Number of span =	1
		Width/1span (m)=	1.10
		Number of gates=	0
	/ If Canal→	Length of main	200
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		157
9	Actual irrigation area (ha)		include"47"
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- TOMAS XIMENES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			- River bed is lower than the target paddy field.

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons
		(Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others - River bed is lov
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons
		(Details)
		High maintenance cost of structure
		(Annual Cost US$)
		(Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	60
●		
Evaluation of degree on immediate treatment		B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : WALI TAUR 4-a-add-10

1	No.		153
2	Date of Survey		24/2/2014
3	Name of Irrigation scheme		WALI TAUR
4	Name of District		Baucau
	Name of Sub-district		Baucau
5	Name of Suco		SAMALARI
	Name of Aldeia		SAMALARI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	221842
		Y=	9056146
	Grid reference in Irr. scheme except for above facility	X=	221951
		Y=	9056222
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	3.00
		Height(m)=	3.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		150
9	Actual irrigation area (ha)		include"59"
10	Original or planned irrigation area (ha)		300.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect)	
		(Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Young people are leaving the country to get jobs in abroad and agriculture activity will stop in future.	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Waihura 4-a-add-11

1	No.		154	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		29/3/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		Waihura				A few in 5 years	✓
4	Name of District		Baucau				A few in 10 years	
	Name of Sub-district		Baucau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Bahu				Climate change (decrease of river	✓
	Name of Aldeia		Bahu				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	218140				Damage to irrigation structure	
		Y=	9065088				Others	
	Grid reference in Irr. scheme except for above facility	X=	218194			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9065065			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			2
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
	/ If Canal→	Length of main	87				No	
		Width(m) for typical	0.40		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =	6.0			Decrease	%	
		Depth(m)=	1.20				for years	
		Number of Pond =	1		a-6) What is	Gate operation		
8	Number of house hold in service area		30			Gate maintenance		
9	Actual irrigation area (ha)		185.0			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		50.0			Canal Rehabilitation		✓
11	Original constructed year	Year's	2000s			Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year	2007		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)

Size of area (10 pts, more than 100ha) ●	Total Points	10
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Kama'ana

1	No.		155
2	Date of Survey		26/3/2014
3	Name of Irrigation scheme		Kama'ana
4	Name of District		Baucau
	Name of Sub-district		Venilale
5	Name of Suco		Wailaha
	Name of Aldeia		Cawbai
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	212820
		Y=	9044845
	Grid reference in Irr. scheme except for above facility	X=	212814
		Y=	9044846
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	0.63
		Height(m)=	0.20
	/ If Pond or lake→	Diameter of Pond(m) =	6.0
		Depth(m)=	15.00
		Number of Pond =	1
8	Number of house hold in service area		45
9	Actual irrigation area (ha)		include "115"
10	Original or planned irrigation area (ha)		27.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Ana Maria and Moises
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha) ●		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Guabai 4-a-add-13

1	No.		156
2	Date of Survey		2/4/2014
3	Name of Irrigation scheme		Guabai
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Uatulari
	Name of Aldeia		Uaiharbo
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192654
		Y=	9054102
	Grid reference in Irr. scheme except for above facility	X=	192744.02
		Y=	9054147.06
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	15.00
		Height(m)=	1.10
		Number of span =	0
		Width/1span (m)=	1.10
		Number of gates=	0
	/ If Canal→	Length of main	350
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		25.0
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Adelino Gusmao
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reaso	✓
		(Details)	- The Farmers
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons	
		(Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons	
		(Details)	
		High maintenance cost of structure	
		(Annual Cost US$)	
		(Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		●

Size of area (10 pts, more than 100ha)	Total Points	70
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Baucau Irrigation scheme : Era Ruin 4-a-add-14

1	No.		157
2	Date of Survey		7/2/2014
3	Name of Irrigation scheme		Era Ruin
4	Name of District		Baucau
	Name of Sub-district		Vemasse
5	Name of Suco		Vemasse
	Name of Aldeia		Raha
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	192699
		Y=	9058273
	Grid reference in Irr. scheme except for above facility	X=	192835
		Y=	9058596
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.80
		Number of span =	
		Width/1span (m)=	1.30
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		include "94"
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Zeliban Freitas
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●

Size of area (10 pts, more than 100ha) ●	Total Points	40
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

4. Bobonaro

District : Bobonaro Irrigation scheme : MALIANA I 1-e-1TC

1	No.		1	
2	Date of Survey		15/12/2013	
3	Name of Irrigation scheme		MALIANA I	
4	Name of District		Bobonaro	
	Name of Sub-district		Maliana	
5	Name of Suco		LAHOMEA	
	Name of Aldeia		RITABOUHOLSAODOMALIRAIFIN	
6	Observing location of the Grid	Free Intake		
		Intake with gates	✓	
		Pond/Lake/Spring		
		Weir	✓	
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	745667	
		Y=	9005639	
	Grid reference in Irr. scheme except for above facility	X=	743948	
		Y=	9005972	
7	What kind of structure?	Weir	✓	
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others	-SPILL WAYS	
	/ If Weir→	Length(m)=	24.6	
		Height(m)=	5.40	
		Width/1span (m)=	1.00	
		Number of span =	2	
		Number of gates=	2	
	/ If Intake→	Length(m)=	22.20	
		Height(m)=	4.30	
		Number of span =	2	
		Width/1span (m)=	2.30	
		Number of gates=	2	
	/ If Canal→	Length of main	1,000	
		Width(m) for typical	2.30	
		Height(m)=	1.30	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		1,467	
9	Actual irrigation area (ha)		900	
10	Original or planned irrigation area (ha)		1,050.0	
11	Original constructed year	Year's	1970s	
		Exact year	1973	
		Rehabilitated year	2010	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others	- River name: Bulobo	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal		
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓	
		Wet Masonry	✓	
		Earth/Soil		
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		- FRANCISCO F. DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee 0.5
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

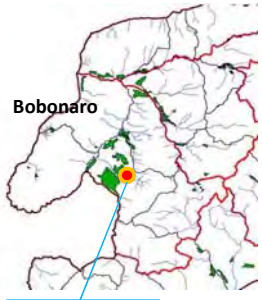
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 50,000 - Weir and gate
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 25,000 - Main canal
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : LOTAN 1-e-2TC

1	No.		2	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		13/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		LOTAN				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Balibò			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BATUGADE				Climate change (decrease of river flow	✓
	Name of Aldeia		MAUDEKU				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir	✓				A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	719982.15				Damage to irrigation structure	
		Y=	9006923.35				Others	
	Grid reference in Irr. scheme except for above facility	X=	720359			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9006718			Others		
7	What kind of structure?	Weir	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	✓
		Others	-SEDIMENT BASIN				Traditional WG	
	/ If Weir→	Length(m)=	4.4				Others	
		Height(m)=	3.10		a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=	1.00		a-3) Name of representative of WG or WUAs			- ALEXANDER KOLO
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
		Number of gates=					No	
	/ If Intake→	Length(m)=	2.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	1.50				US$/ha as water fee	1.0
		Number of span =	2			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.00				kg/ha as water fee	20
		Number of gates=	2		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	400				No	✓
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		✓
8	Number of house hold in service area		78			Gate maintenance		✓
9	Actual irrigation area (ha)		30			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		80.0			Canal Rehabilitation		
11	Original constructed year	Year's	1990s			Others		
		Exact year	1992		a-7) How often are the meeting held in a year?			1
		Rehabilitated year	2002		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry	✓					
		Earth/Soil						
		Others						

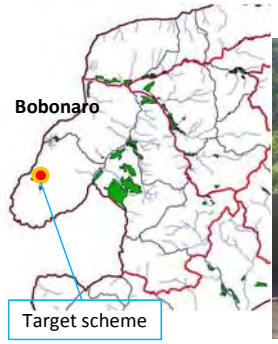
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha) -		Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MALIUBUN 1-e-3S

1	No.		3
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		MALIUBUN
4	Name of District		Bobonaro
	Name of Sub-district		Bobonaro
5	Name of Suco		MALIUBUN
	Name of Aldeia		NUNUPAN
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	761127
		Y=	9004541
	Grid reference in Irr. scheme except for above facility	X=	760639
		Y=	9004560
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	0.90
		Number of span =	2
		Width/1span (m)=	2.00
		Number of gates=	2
	/ If Canal→	Length of main	832
		Width(m) for typical	0.80
		Height(m)=	0.90
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		150
9	Actual irrigation area (ha)		31
10	Original or planned irrigation area (ha)		65.0
11	Original constructed year	Year's	2000s
		Exact year	2004
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee 50
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase %	
		for years	
		Decrease %	
		for years	
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha) -	Total Points	20
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : TEBABUI 1-e-4S

1	No.		4	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		14/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		TEBABUI				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Bobonaro			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TEBABUI				Climate change (decrease of river flow	✓
	Name of Aldeia		TEBABUI				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	760918				Damage to irrigation structure	✓
		Y=	9003806				Others	
	Grid reference in Irr. scheme except for above facility	X=	760928			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9003816			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=	7.8				Others	
		Height(m)=	1.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=	5.00		a-3) Name of representative of WG or WUAs			- AGUSTINHO SOARES
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
		Number of gates=	1				No	
	/ If Intake→	Length(m)=	6.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.80				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	50
		Width/1span (m)=	2.80				kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	250				No	✓
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		✓
8	Number of house hold in service area		70			Gate maintenance		✓
9	Actual irrigation area (ha)		11			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		50.0			Canal Rehabilitation		
11	Original constructed year	Year's	2000s			Others		
		Exact year	2004		a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others	- River name: Bulobo			Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden	✓					
		Free intake	✓					
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil						
		Others						

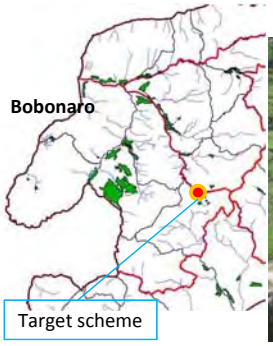
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : HALECOU 1-e-5S

1	No.		5
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		HALECOU
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU
	Name of Aldeia		HALECOU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/Spring/pump	X=	736255
		Y=	9013976
	Grid reference in Irr. scheme except for above facility	X=	738894
		Y=	9014720
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.10
		Number of span =	2
		Width/1span (m)=	1.10
		Number of gates=	2
	/ If Canal→	Length of main	400
		Width(m) for typical	1.10
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		103
9	Actual irrigation area (ha)		364
10	Original or planned irrigation area (ha)		345.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- River name: Bebeai
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		- DOMINGOS BARRES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee 1.0
		by Rice	kg/HH as member ship fee 50
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- River bed is low and it is difficult to guide water to intake.	

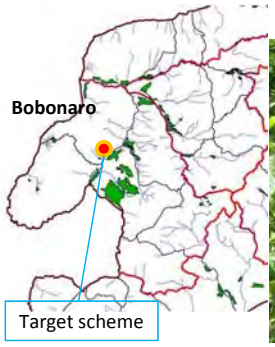
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - River bed is low
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Canal is sealed.
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	100
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MALIANA II 1-e-6S

1	No.		6
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		MALIANA II
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		TAPO MEMO
	Name of Aldeia		PIPGALAHULUATINLEPGUENUNUBIBI
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	740312.45
		Y=	9001488.07
	Grid reference in Irr. scheme except for above facility	X=	738839
		Y=	9004824
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	-SPILL WAYS
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	3.00
		Number of span =	2
		Width/1span (m)=	2.45
		Number of gates=	2
	/ If Canal→	Length of main	8,000
		Width(m) for typical	2.85
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		338
9	Actual irrigation area (ha)		1,700
10	Original or planned irrigation area (ha)		1,500.0
11	Original constructed year	Year's	1980s
		Exact year	1988
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- River name: Malicaba
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - River bed is low
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	- There are no gate
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			5
	a-3) Name of representative of WG or WUAs			- EGIBIO DOS SANTOS
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	25
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	5
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- River bed is low and it is difficult to guide water to intake.		

●Evaluation of Irrigation scheme

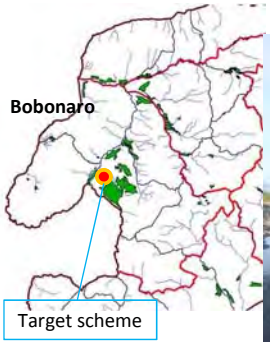
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●

Size of area (10 pts, more than 100ha)	Total Points	100
●		

Evaluation of degree on immediate treatment: **A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MAUTALO

1	No.		7
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		MAUTALO
4	Name of District		Bobonaro
	Name of Sub-district		Cailaco
5	Name of Suco		MILIGO
	Name of Aldeia		BERLIU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	744641
		Y=	9013969
	Grid reference in Irr. scheme except for above facility	X=	744353
		Y=	9014009
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	-DROP STRUCTURES
	/ If Weir→	Length(m)=	8.0
		Height(m)=	2.80
		Width/1span (m)=	1.20
		Number of span =	1
		Number of gates=	1
	/ If Intake→	Length(m)=	5.00
		Height(m)=	3.00
		Number of span =	1
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	400
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		54
9	Actual irrigation area (ha)		91
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	✓
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	✓
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- ANTONIO SOARES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	2.0
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	25
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	5
			for years	2
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

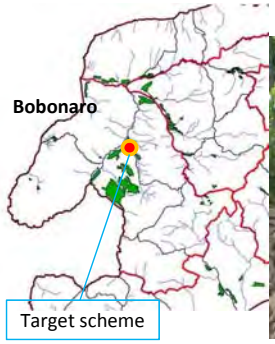
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha)	-	Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MARCO 1-e-8S

1	No.		8
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		MARCO
4	Name of District		Bobonaro
	Name of Sub-district		Cailaco
5	Name of Suco		MILIGO
	Name of Aldeia		BERLIU
6	Observing location of the Grid	Free Intake	
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	742898
		Y=	9017039
	Grid reference in Irr. scheme except for above facility	X=	742951
		Y=	9016181
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	3.00
		Number of span =	
		Width/1span (m)=	0.80
		Number of gates=	
	/ If Canal→	Length of main	4,200
		Width(m) for typical	1.25
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		203
9	Actual irrigation area (ha)		208
10	Original or planned irrigation area (ha)		325.0
11	Original constructed year	Year's	1990s
		Exact year	1994
		Rehabilitated year	2004
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		3
	a-3) Name of representative of WG or WUAs		- ADAO LEAL
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee 50
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

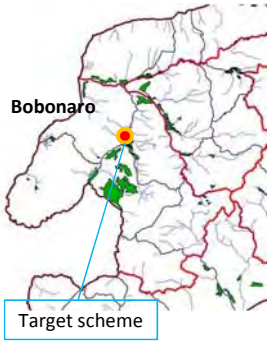
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	**100**
Evaluation of degree on immediate treatment			**A/A100**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BILIMAU 1-e-9S

1	No.		9
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		BILIMAU
4	Name of District		Bobonaro
	Name of Sub-district		Cailaco
5	Name of Suco		BILIMAU
	Name of Aldeia		BILIMAU
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	748126
		Y=	9027521
	Grid reference in Irr. scheme except for above facility	X=	747821
		Y=	9027600
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	-DROP STRUCTURES
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	3.00
		Number of span =	2
		Width/1span (m)=	2.60
		Number of gates=	2
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.55
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		103
9	Actual irrigation area (ha)		379
10	Original or planned irrigation area (ha)		350.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- River name: Marobo
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		4
	a-3) Name of representative of WG or WUAs		- ALEXANDRE B. DA COSTA
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee 10
			US$/ha as water fee
		by Rice	kg/HH as member ship fee 50
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	% 5
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	✓
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

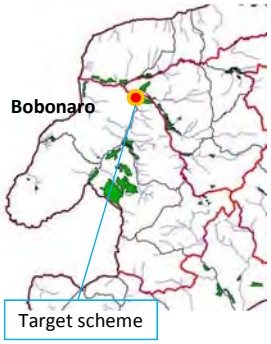
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

1	No.		10
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	*1-e-5s is semitechnical too and there is only 1 scheme named Halecou.		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : LOESATABAE 1-e-11S

1	No.		11	
2	Date of Survey		13/12/2013	
3	Name of Irrigation scheme		LOESATABAE	
4	Name of District		Bobonaro	
	Name of Sub-district		Atabae	
5	Name of Suco		AIDABALETEN	
	Name of Aldeia		TASIMEAN	
6	Observing location of the Grid	Free Intake		
		Intake with gates	✓	
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	733700	
		Y=	9032928	
	Grid reference in Irr. scheme except for above facility	X=	731380	
		Y=	9032502	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	10.00	
		Height(m)=	4.50	
		Number of span =	2	
		Width/1span (m)=	2.80	
		Number of gates=	2	
	/ If Canal→	Length of main	4,200	
		Width(m) for typical	0.85	
		Height(m)=	1.00	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		332	
9	Actual irrigation area (ha)		164	
10	Original or planned irrigation area (ha)		270.0	
11	Original constructed year	Year's	1990s	
		Exact year	1993	
		Rehabilitated year	2006	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil		
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			13
	a-3) Name of representative of WG or WUAs			- MANUEL PIRES
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	2.0
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	50
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	5
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		✓
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

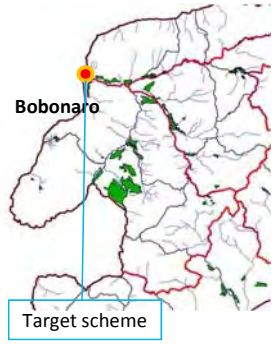
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BEACOU 1-e-12TR

1	No.		12	
2	Date of Survey		14/12/2013	
3	Name of Irrigation scheme		BEACOU	
4	Name of District		Bobonaro	
	Name of Sub-district		Maliana	
5	Name of Suco		RITABOU	
	Name of Aldeia		MOLEANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	742848	
		Y=	9015167	
	Grid reference in Irr. scheme except for above facility	X=	742598	
		Y=	9015414	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	5.00	
		Height(m)=	1.00	
		Number of span =		
		Width/1span (m)=	0.80	
		Number of gates=		
	/ If Canal→	Length of main	2,000	
		Width(m) for typical	1.05	
		Height(m)=	1.00	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		30	
9	Actual irrigation area (ha)		75	
10	Original or planned irrigation area (ha)		76.0	
11	Original constructed year	Year's	2000s	
		Exact year	2000	
		Rehabilitated year	2004	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others	- River name: Bulobo	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal		
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	1.0
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	25
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

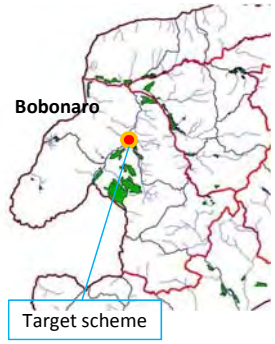
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha)	-	Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : HOLIHUT 1-e-13TR

1	No.		13
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		HOLIHUT
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU
	Name of Aldeia		RITABOUDAT-MAGANOTU
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	742138
		Y=	9007599
	Grid reference in Irr. scheme except for above facility	X=	741865
		Y=	9008187
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	0.80
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	6.0
		Depth(m)=	1.20
		Number of Pond =	1
8	Number of house hold in service area		43
9	Actual irrigation area (ha)		118
10	Original or planned irrigation area (ha)		75.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	- Water is supplyed from
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- MANUEL TALOMALI
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Water is supplyed from MALIANA I.		

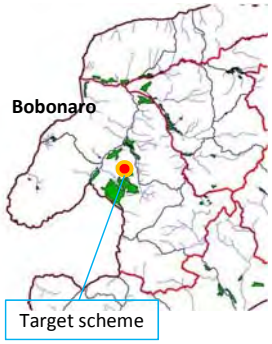
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details) ✓ - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : AIKIAR 1-e-14TR

1	No.		14
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		AIKIAR
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU-LAHOMET
	Name of Aldeia		MAGANOTUCIMATANRITABOU
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	742243
		Y=	9007560
	Grid reference in Irr. scheme except for above facility	X=	741461
		Y=	9007988
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	430
		Width(m) for typical	0.60
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	7.0
		Depth(m)=	1.50
		Number of Pond =	1
8	Number of house hold in service area		71
9	Actual irrigation area (ha)		include"13"
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	- Water is supplyed from
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- PONCIANO DE ARAUJO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Water is supplyed from MALIANA I.		

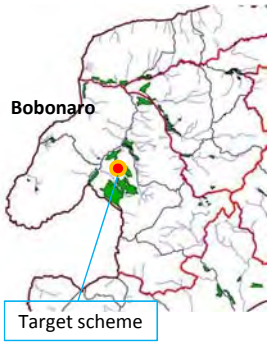
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	✓ - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BANEGUT 1-e-15TR

1	No.		15	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		28/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BANEGUT				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Maliana			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		RITABOU				Climate change (decrease of river flow	✓
	Name of Aldeia		RITABOU -OAT				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	741150				Damage to irrigation structure	
		Y=	9008743				Others	
	Grid reference in Irr. scheme except for above facility	X=	741047			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9009013			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- LUIS OLIVEIRA
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	312				No	✓
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =	6.0			Decrease	%	
		Depth(m)=	1.00				for years	
		Number of Pond =	1		a-6) What is	Gate operation		
8	Number of house hold in service area		27			Gate maintenance		
9	Actual irrigation area (ha)		include"13"			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		80.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake	✓					
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

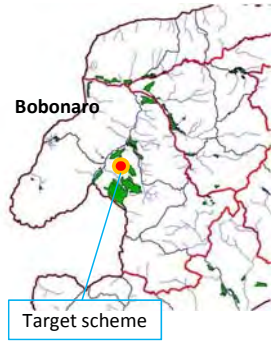
13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake ✓
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details) ✓ - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BANEGOA 1-e-16TR

1	No.		16
2	Date of Survey		28/3/2014
3	Name of Irrigation scheme		BANEGOA
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU
	Name of Aldeia		RITABOU -OAT
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	741537
		Y=	9008167
	Grid reference in Irr. scheme except for above facility	X=	741088
		Y=	9009613
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	315
		Width(m) for typical	0.80
		Height(m)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	10.0
		Depth(m)=	1.30
		Number of Pond =	1
8	Number of house hold in service area		21
9	Actual irrigation area (ha)		include"13"
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	- Water is supplyed from
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- POINSANO
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Water is supplyed from MALIANA I.	

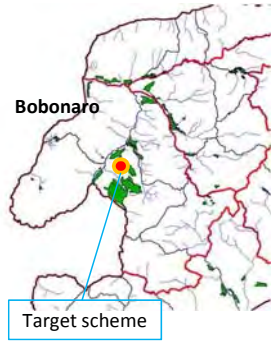
13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	✓
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	✓ - No physical
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : KORLULI 1-e-17TR

1	No.		17	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		15/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		KORLULI				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Maliana			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		RITABOU				Climate change (decrease of river flow	✓
	Name of Aldeia		MOLEANA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	740392				Damage to irrigation structure	✓
		Y=	9010963				Others	
	Grid reference in Irr. scheme except for above facility	X=	740328			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9011010			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=	12.0				Others	
		Height(m)=	2.70		a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=	1.00		a-3) Name of representative of WG or WUAs			- Luis Cardoso
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=	0				No	✓
	/ If Intake→	Length(m)=	2.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.80				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.20				kg/ha as water fee	
		Number of gates=	0		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1,200				No	✓
		Width(m) for typical	1.20		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		37			Gate maintenance		
9	Actual irrigation area (ha)		39			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		60.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden	✓					
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

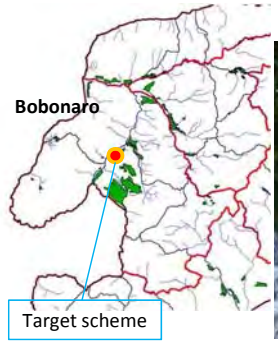
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
			●

Size of area (10 pts, more than 100ha) -	Total Points	10
Evaluation of degree on immediate treatment		C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : DARE 1-e-18TR

1	No.		18	
2	Date of Survey		14/12/2013	
3	Name of Irrigation scheme		DARE	
4	Name of District		Bobonaro	
	Name of Sub-district		Maliana	
5	Name of Suco		RITABOU	
	Name of Aldeia		MOLEANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates	✓	
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	738979	
		Y=	9014645	
	Grid reference in Irr. scheme except for above facility	X=	738972	
		Y=	9014673	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	5.00	
		Height(m)=	2.00	
		Number of span =	1	
		Width/1span (m)=	2.00	
		Number of gates=	0	
	/ If Canal→	Length of main	200	
		Width(m) for typical	0.80	
		Height(m)=	1.00	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		50	
9	Actual irrigation area (ha)		31	
10	Original or planned irrigation area (ha)		72.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	50
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

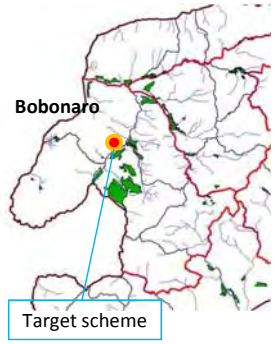
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - Scheme has not
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		●
Size of area (10 pts, more than 100ha) -		Total Points	70
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : LEKITAE 1-e-19TR

1	No.		19	
2	Date of Survey		15/12/2013	
3	Name of Irrigation scheme		LEKITAE	
4	Name of District		Bobonaro	
	Name of Sub-district		Maliana	
5	Name of Suco		RITABOU	
	Name of Aldeia		MOLEANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	738773	
		Y=	9014148	
	Grid reference in Irr. scheme except for above facility	X=	738880	
		Y=	9014222	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	2.60	
		Height(m)=	1.80	
		Number of span =	1	
		Width/1span (m)=	2.40	
		Number of gates=		
	/ If Canal→	Length of main	150	
		Width(m) for typical		
		Height(m)=	1.10	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		125	
9	Actual irrigation area (ha)		include"18"	
10	Original or planned irrigation area (ha)		152.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		✓ - Farmers need
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances to establish a water users group.		

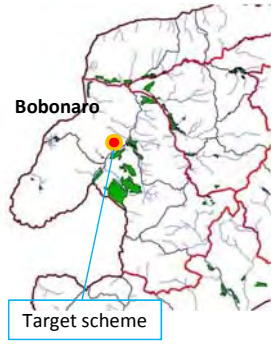
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
			●
Size of area (10 pts, more than 100ha) ●		Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : PAILELO 1-e-20TR

1	No.		20	
2	Date of Survey		14/12/2013	
3	Name of Irrigation scheme		PAILELO	
4	Name of District		Bobonaro	
	Name of Sub-district		Maliana	
5	Name of Suco		RITABOU	
	Name of Aldeia		MOLEANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	742231	
		Y=	9017035	
	Grid reference in Irr. scheme except for above facility	X=	741159	
		Y=	9017521	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	2.00	
		Height(m)=	0.40	
		Number of span =		
		Width/1span (m)=	1.20	
		Number of gates=		
	/ If Canal→	Length of main	1,500	
		Width(m) for typical	0.95	
		Height(m)=	0.35	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		44	
9	Actual irrigation area (ha)		60	
10	Original or planned irrigation area (ha)		78.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others	- River name: Bulobo	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal		
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	✓ 2014
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Water users group will be established in 2014.	

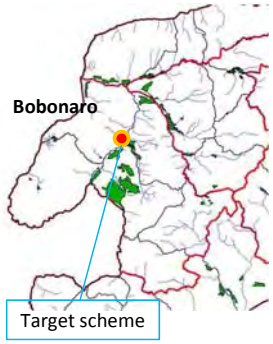
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - No physical
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		●
Size of area (10 pts, more than 100ha) -		Total Points	70
Evaluation of degree on immediate treatment			A/A50

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BEASU OABEIN 1-e-21TR

1	No.		21
2	Date of Survey		15/3/2014
3	Name of Irrigation scheme		BEASU OABEIN
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU
	Name of Aldeia		MOLEANA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	742848
		Y=	9015167
	Grid reference in Irr. scheme except for above facility	X=	742736
		Y=	9015103
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	1.50
		Number of span =	0
		Width/1span (m)=	1.40
		Number of gates=	0
	/ If Canal→	Length of main	670
		Width(m) for typical	1.05
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	6.0
		Depth(m)=	1.00
		Number of Pond =	1
8	Number of house hold in service area		21
9	Actual irrigation area (ha)		2
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- Luis Loemau
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

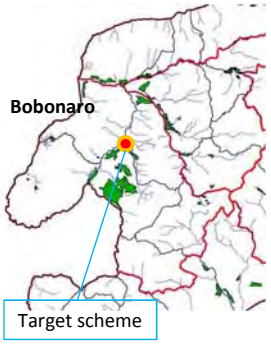
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●		●	●

Size of area (10 pts, more than 100ha)	Total Points	70
-		
Evaluation of degree on immediate treatment		A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

1	No.		22
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		CIBOH
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		TAPO MEMO
	Name of Aldeia		PIPGALAHULUATIN
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	739065
		Y=	9003007
	Grid reference in Irr. scheme except for above facility	X=	739032
		Y=	9003085
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.12
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	0
	/ If Canal→	Length of main	50
		Width(m) for typical	1.00
		Height(m)=	20.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		include"6"
10	Original or planned irrigation area (ha)		98.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- River name: Malibaca
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal", show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	✓ - Irrigation scheme is not
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		- There is no water uses group because irrigation scheme is not functional.

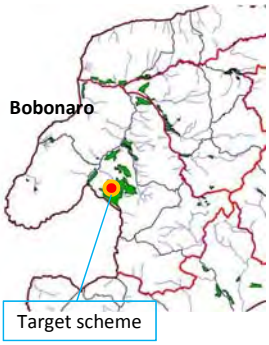
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration ✓
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details) ✓
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	100
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : NUNURA 1-e-23TR

1	No.		23	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		13/12/2013			(Frequency)	Every year	
3	Name of Irrigation scheme		NUNURA				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Bobonaro			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TAPO MEMO				Climate change (decrease of river flow	
	Name of Aldeia		MANU-AMAN				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/Spring/pump	X=	733052.98				Damage to irrigation structure	✓
		Y=	9007511.33				Others	
	Grid reference in Irr. scheme except for above facility	X=	732848			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9009236			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- GUHERMINO DA COSTA
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
		Number of gates=					No	
	/ If Intake→	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	2.20				US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=	0.90				kg/ha as water fee	50
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
	/ If Canal→	Length of main	1,000				No	
		Width(m) for typical			/ if respondent select above "☑ Yes", How change of fee?	Increase	%	5
		Height(m)=	0.80				for years	5
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		✓
8	Number of house hold in service area		78			Gate maintenance		✓
9	Actual irrigation area (ha)		227			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		225.0			Canal Rehabilitation		
11	Original constructed year	Year's	1990s			Others		
		Exact year	1994		a-7) How often are the meeting held in a year?			1
		Rehabilitated year	2004		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishment year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil						
		Others						

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details) ✓
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		●
Size of area (10 pts, more than 100ha) ●		Total Points	80
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BEAMAREN 1-e-24TR

1	No.		24
2	Date of Survey		15/3/2014
3	Name of Irrigation scheme		BEAMAREN
4	Name of District		Bobonaro
	Name of Sub-district		Atabae
5	Name of Suco		AIDABALETEN
	Name of Aldeia		HATAS
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	734254
		Y=	9014735
	Grid reference in Irr. scheme except for above facility	X=	734992
		Y=	9014424
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	4.00
		Height(m)=	1.00
		Number of span =	0
		Width/1span (m)=	1.20
		Number of gates=	0
	/ If Canal→	Length of main	600
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		52
9	Actual irrigation area (ha)		14
10	Original or planned irrigation area (ha)		102.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- Jose Fontes
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

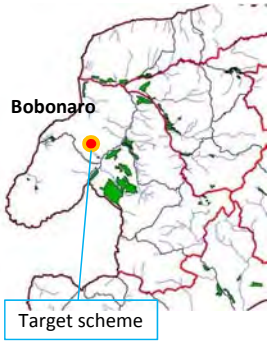
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha)	-	Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : LEOLIMA 1-e-25TR

1	No.		25	
2	Date of Survey		28/3/2014	
3	Name of Irrigation scheme		LEOLIMA	
4	Name of District		Bobonaro	
	Name of Sub-district		Balibo	
5	Name of Suco		LEOLIMA	
	Name of Aldeia		DIRUANA	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	733527	
		Y=	9011408	
	Grid reference in Irr. scheme except for above facility	X=	733844	
		Y=	9011637	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake	✓	
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	12.00	
		Height(m)=	2.00	
		Number of span =	1	
		Width/1span (m)=	0.60	
		Number of gates=		
	/ If Canal→	Length of main	520	
		Width(m) for typical	0.60	
		Height(m)=	0.80	
	/ If Pond or lake→	Diameter of Pond(m) =	7.0	
		Depth(m)=	1.50	
		Number of Pond =	1	
8	Number of house hold in service area		72	
9	Actual irrigation area (ha)		10	
10	Original or planned irrigation area (ha)		120.0	
11	Original constructed year	Year's	2000s	
		Exact year	2004	
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal		
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil		
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- GUIHERMINO C.
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash: US$/HH as member ship fee	
		by Cash: US$/ha as water fee	
		by Rice: kg/HH as member ship fee	
		by Rice: kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase %	
		for years	
		Decrease %	
		for years	
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

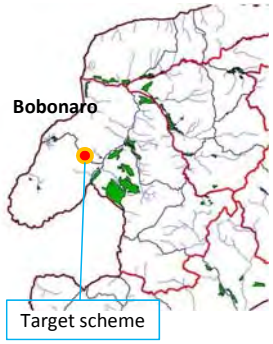
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BATUGADE(AMODAK) 1-e-26TR

1	No.		26	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		28/3/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BATUGADE(AMODAK)				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Balibo			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BATUGADE				Climate change (decrease of river flow	✓
	Name of Aldeia		BATUGADE				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	718527				Damage to irrigation structure	
		Y=	9009178				Others	
	Grid reference in Irr. scheme except for above facility	X=	717795			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9009323			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			2
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- JACINTO SOARES
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	2,100				No	✓
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.90				for years	
	/ If Pond or lake→	Diameter of Pond(m) =	5.0			Decrease	%	
		Depth(m)=	1.00				for years	
		Number of Pond =	1		a-6) What is	Gate operation		
8	Number of house hold in service area		65			Gate maintenance		
9	Actual irrigation area (ha)		15			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		78.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake	✓					
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

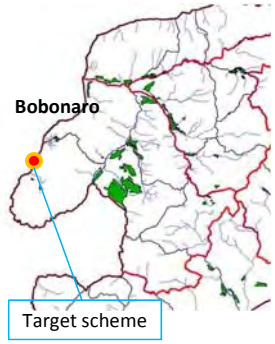
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	✓ - No physical
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		
Size of area (10 pts, more than 100ha) -		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : BUGAS 1-e-27TR

1	No.		27	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		14/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BUGAS				A few in 5 years	
4	Name of District		Bobonaro				A few in 10 years	
	Name of Sub-district		Bobonaro			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TEBABUI				Climate change (decrease of river flow	✓
	Name of Aldeia		BUGAS				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	761709				Damage to irrigation structure	✓
		Y=	9003134				Others	
	Grid reference in Irr. scheme except for above facility	X=	761338			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9022991			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- AGUSTINHO SOARES
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
		Number of gates=					No	
	/ If Intake→	Length(m)=	2.40		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.60				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	50
		Width/1span (m)=	1.00				kg/ha as water fee	
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	250				No	✓
		Width(m) for typical			/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		50			Gate maintenance		
9	Actual irrigation area (ha)		12			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		30.0			Canal Rehabilitation		
11	Original constructed year	Year's	2000s			Others		
		Exact year	2002		a-7) How often are the meeting held in a year?			1
		Rehabilitated year	2012		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others	- River name:			Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee	- River bed is low and it is difficult to guide water to intake.		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil						
		Others						

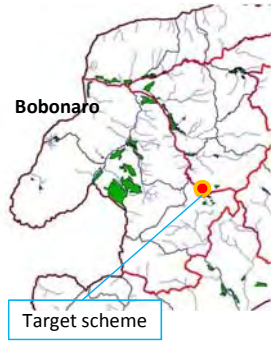
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - River bed is low
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	90
Evaluation of degree on immediate treatment			A

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : SORLULI 1-e-28TR

1	No.		28	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water			✓
2	Date of Survey		14/12/2013			(Frequency)	Every year		✓
3	Name of Irrigation scheme		SORLULI				A few in 5 years		
4	Name of District		Bobonaro				A few in 10 years		
	Name of Sub-district		Bobonaro			(Cause or Reason)	Not functional of irrigation structure		
5	Name of Suco		LOURBA				Climate change (decrease of river flow		✓
	Name of Aldeia		CORDOLI				Others		
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme			✓
		Intake with gates	✓			(Frequency)	Every year		✓
		Pond/Lake/Spring					A few in 5 years		
		Weir					A few in 10 years		
		Others				(Contents of damage)	Wash out the land		
	Grid reference at intake/Pond/lake/spring/pump	X=	760509				Damage to irrigation structure		✓
		Y=	9002552				Others		
	Grid reference in Irr. scheme except for above facility	X=	759373			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)			
		Y=	9002999			Others			- Landslide on the area
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes		✓
		Intake	✓				No		
		Canal	✓		a) In case of YES				
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs		✓
		Others					Traditional WG		
	/ If Weir→	Length(m)=	12.2				Others		
		Height(m)=	2.50		a-2) How many number of WG or WUAs in the irrigation scheme ?				2
		Width/1span (m)=	1.00		a-3) Name of representative of WG or WUAs				
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes		✓
		Number of gates=					No		
	/ If Intake→	Length(m)=	5.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee		
		Height(m)=	1.70				US$/ha as water fee		
		Number of span =	2			by Rice	kg/HH as member ship fee		
		Width/1span (m)=	1.20				kg/ha as water fee		1
		Number of gates=	2		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes		
	/ If Canal→	Length of main	2,000				No		
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%		
		Height(m)=	0.80				for years		
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%		
		Depth(m)=					for years		
		Number of Pond =							
8	Number of house hold in service area		150		a-6) What is	Gate operation			✓
9	Actual irrigation area (ha)		45			Gate maintenance			✓
10	Original or planned irrigation area (ha)		80.0			Canal Cleaning			✓
11	Original constructed year	Year's	2010s			Canal Rehabilitation			
		Exact year	2010			Others			
		Rehabilitated year			a-7) How often are the meeting held in a year?				1
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)			
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)			
		Under Ground Water				Not required to establish (Reason)			
		Others				Already expired (Reason)			
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓			Others			
		Weir (Wooden							
		Free intake							
		Intake with Gates	✓						
		Pond/Lake							
		Canal	✓	16	Opinion or request by interviewee	- Landslides in the area.			
		Others							
	If respondent select above "☑ Canal" , show the type of canal	Concrete							
		Wet Masonry	✓						
		Earth/Soil							
		Others							

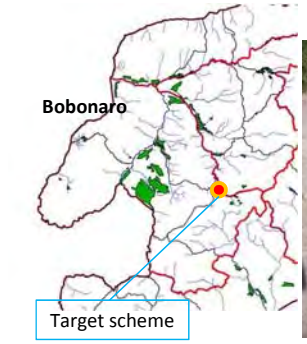
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) -		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : 0 1-e-29TR

1	No.		29
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	No scheme by urbanization		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MULA'U 1-e-add1

1	No.		30
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		MULA'U
4	Name of District		Bobonaro
	Name of Sub-district		Maliana
5	Name of Suco		RITABOU
	Name of Aldeia		SAMELAUN
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	742004
		Y=	9009802
	Grid reference in Irr. scheme except for above facility	X=	741898
		Y=	9010694
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	1.00
		Number of span =	
		Width/1span (m)=	1.90
		Number of gates=	
	/ If Canal→	Length of main	1,500
		Width(m) for typical	
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		83
10	Original or planned irrigation area (ha)		69.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	1.0
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	15
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

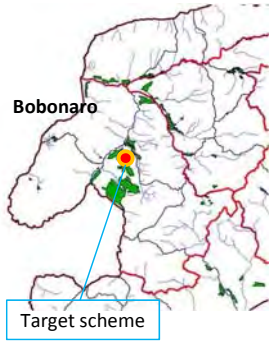
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha)	-	Total Points	80
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Bobonaro Irrigation scheme : MIQUIR 1-e-add2

1	No.		31	
2	Date of Survey		13/12/2013	
3	Name of Irrigation scheme		MIQUIR	
4	Name of District		Bobonaro	
	Name of Sub-district		Atabae	
5	Name of Suco		AIDABA-LETEN	
	Name of Aldeia		MIQUIR	
6	Observing location of the Grid	Free Intake	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	724236	
		Y=	9019013	
	Grid reference in Irr. scheme except for above facility	X=	724170	
		Y=	9019116	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	10.00	
		Height(m)=	2.00	
		Number of span =		
		Width/1span (m)=	1.20	
		Number of gates=		
	/ If Canal→	Length of main	200	
		Width(m) for typical	0.80	
		Height(m)=	0.80	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		87	
9	Actual irrigation area (ha)		284	
10	Original or planned irrigation area (ha)		1,064.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	0.5
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	✓
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishment year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- River bed is low and it is difficult to guide water to intake.		

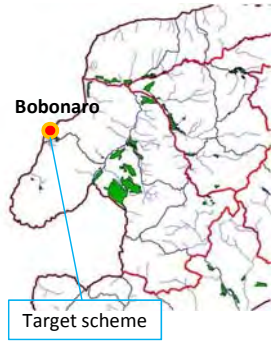
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓ - River bed is low
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●			●
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

5. Cova Lima

District : Covalima Irrigation scheme : WELULI 2-b-1TC

1	No.		1
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		WELULI
4	Name of District		Covalima
	Name of Sub-district		Zumalai
5	Name of Suco		RAIMEAN
	Name of Aldeia		OEBABA
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	777975
		Y=	8983278
	Grid reference in Irr. scheme except for above facility	X=	775809
		Y=	8981852
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	3.00
		Height(m)=	2.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		600
9	Actual irrigation area (ha)		534
10	Original or planned irrigation area (ha)		700.0
11	Original constructed year	Year's	1990s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

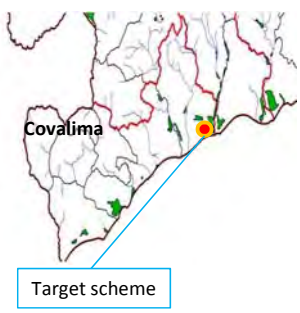
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme is under construction.		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : LOMEA 2-b-2TC

1	No.		2
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		LOMEA
4	Name of District		Covalima
	Name of Sub-district		Suai
5	Name of Suco		BECO
	Name of Aldeia		BECO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	✓
		Pond/Lake/Spring	
		Weir	✓
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	763237
		Y=	8984122
	Grid reference in Irr. scheme except for above facility	X=	763287
		Y=	8983075
7	What kind of structure?	Weir	✓
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	30.0
		Height(m)=	3.50
		Width/1span (m)=	140.00
		Number of span =	1
		Number of gates=	3
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.00
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	1
	/ If Canal→	Length of main	3,000
		Width(m) for typical	2.00
		Height(m)=	2.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		156
9	Actual irrigation area (ha)		158
10	Original or planned irrigation area (ha)		560.0
11	Original constructed year	Year's	1980s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

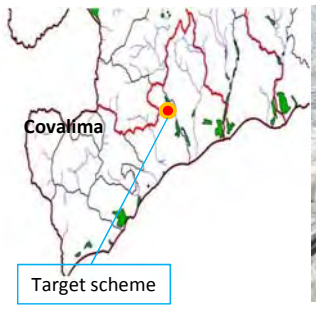
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	100
Evaluation of degree on immediate treatment			A/A100

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : MOLA I 2-b-3S

1	No.		3
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		MOLA I
4	Name of District		Covalima
	Name of Sub-district		Zumalai
5	Name of Suco		RAIMEA
	Name of Aldeia		FATULETO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	771037
		Y=	8983822
	Grid reference in Irr. scheme except for above facility	X=	772169
		Y=	8983406
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	5,000
		Width(m) for typical	0.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		1,555
9	Actual irrigation area (ha)		184
10	Original or planned irrigation area (ha)		248.0
11	Original constructed year	Year's	2010s
		Exact year	2010
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

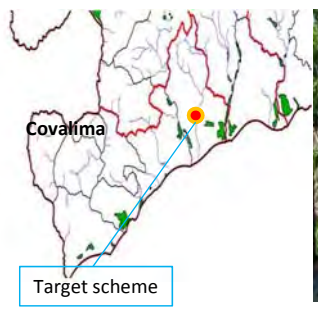
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	30
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : Mola III 2-b-4S

1	No.		4
2	Date of Survey		
3	Name of Irrigation scheme		Mola III
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		Expired
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	* Scheme does not exist. (show MAF letter)		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) ●		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : Mola IV 2-b-5S

1	No.		5
2	Date of Survey		
3	Name of Irrigation scheme		Mola IV
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldea		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		Expired
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	* Scheme does not exist. (show MAF letter)		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) ●		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

1	No.		6
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		BORAOAN
4	Name of District		Covalima
	Name of Sub-district		Tilomar
5	Name of Suco		KASABAUK
	Name of Aldeia		KASABAUK
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	741829
		Y=	8963390
	Grid reference in Irr. scheme except for above facility	X=	743290
		Y=	8960625
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		24
9	Actual irrigation area (ha)		49
10	Original or planned irrigation area (ha)		65.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

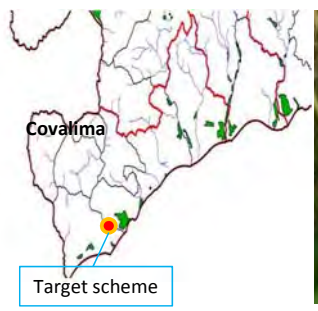
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : 0 Irrigation scheme : Aioan (Beiati) 2-b-7S

1	No.		7
2	Date of Survey		
3	Name of Irrigation scheme		Aioan (Beiati)
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	* Scheme does not exist. (show MAF letter)		

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) -		Total Points	
Evaluation of degree on immediate treatment			

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme

Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : SALELE BOOT 2-b-8S

1	No.		8	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		SALELE BOOT				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Tilomar			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BEISEUK				Climate change (decrease of river flow	✓
	Name of Aldeia		WETAWA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	733102				Damage to irrigation structure	
		Y=	8959039				Others	
	Grid reference in Irr. scheme except for above facility	X=	733122			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8958887					
7	What kind of structure?	Weir				Others		
		Intake		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake	✓		a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	600		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.50				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		194		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		83			Gate maintenance		
10	Original or planned irrigation area (ha)		147.0			Canal Cleaning		✓
11	Original constructed year	Year's	2010s			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

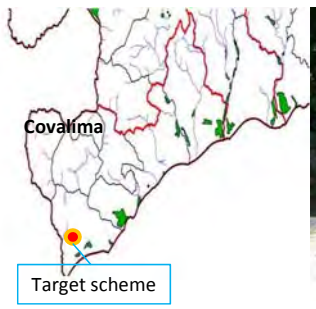
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) -		Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : AIOAN 2-b-9S

1	No.		9	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		AIOAN				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Tilomar			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LALAWA				Climate change (decrease of river flow	✓
	Name of Aldeia		AIOAN				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	736034				Damage to irrigation structure	
		Y=	8962197				Others	
	Grid reference in Irr. scheme except for above facility	X=	736101			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8962087					
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake	✓		a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	10.00				No	
		Height(m)=	1.80		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	0.95			by Rice	kg/HH as member ship fee	
		Number of gates=	1				kg/ha as water fee	
	/ If Canal→	Length of main	1,000		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.70		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		155		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		197			Gate maintenance		
10	Original or planned irrigation area (ha)		140.0			Canal Cleaning		✓
11	Original constructed year	Year's	2010s			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others		16	Opinion or request by interviewee			
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

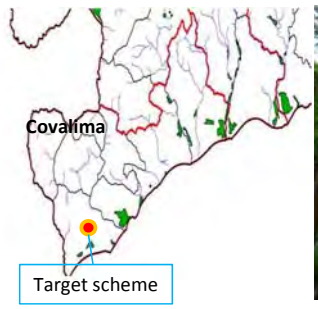
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)		Total Points	30
●			
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WALALETE 2-b-10S

1	No.		10	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		20/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		WALALETE				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Suai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		CAMANASA				Climate change (decrease of river flow	✓
	Name of Aldeia		MANEKIN				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	751886				Damage to irrigation structure	
		Y=	8969448				Others	
	Grid reference in Irr. scheme except for above facility	X=	751880			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8969294					
7	What kind of structure?	Weir				Others		
		Intake		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	1,200		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.20				No	
		Height(m)=	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		800		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		99			Gate maintenance		
10	Original or planned irrigation area (ha)		90.0			Canal Cleaning		✓
11	Original constructed year	Year's	1990s			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

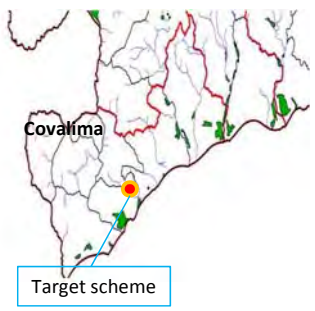
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : BEKIAR 2-b-11S

1	No.		11	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BEKIAR				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Suai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		BECO				Climate change (decrease of river flow	✓
	Name of Aldeia		BECO				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	763481				Damage to irrigation structure	
		Y=	8980345				Others	
	Grid reference in Irr. scheme except for above facility	X=	763455			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8980305			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.90				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	0.90				kg/ha as water fee	
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	940				No	
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		516			Gate maintenance		
9	Actual irrigation area (ha)		56			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		147.0			Canal Rehabilitation		
11	Original constructed year	Year's	2000s			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

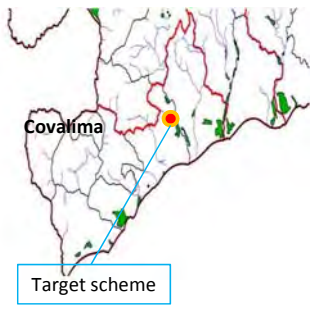
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha)	-	Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : PAKAN 2-b-12TR

1	No.		12	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		PAKAN				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Zumalai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		TASHILIN				Climate change (decrease of river flow	✓
	Name of Aldeia		BAURUAIKUL				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	765056				Damage to irrigation structure	
		Y=	8982044				Others	
	Grid reference in Irr. scheme except for above facility	X=	765056			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8982044			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	5,000				No	
		Width(m) for typical	1.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		200			Gate maintenance		
9	Actual irrigation area (ha)		159			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		1,300.0			Canal Rehabilitation		
11	Original constructed year	Year's	2000s			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

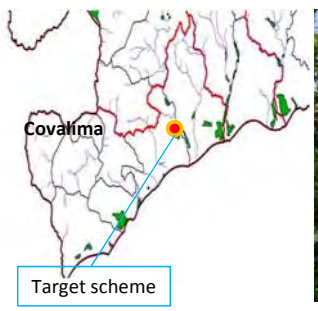
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : MOLA II 2-b-13TR

1	No.		13	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		19/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		MOLA II				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Zumalai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		RAIMEA				Climate change (decrease of river flow	✓
	Name of Aldeia		FATULETO				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	769236				Damage to irrigation structure	✓
		Y=	8986056				Others	
	Grid reference in Irr. scheme except for above facility	X=	769180			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8985950			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=	10.0				Others	
		Height(m)=	1.10		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=	17.00		a-3) Name of representative of WG or WUAs			
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=	2				No	
	/ If Intake→	Length(m)=	5.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	2.20				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.00				kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1,000				No	
		Width(m) for typical	0.70		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.70				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		444			Gate maintenance		
9	Actual irrigation area (ha)		57			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		75.0			Canal Rehabilitation		
11	Original constructed year	Year's	1990s			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year						
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓			Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

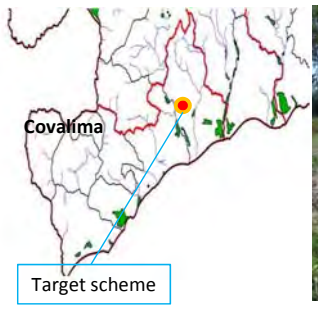
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	80
Evaluation of degree on immediate treatment			A/A50

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WELULI I 2-b-14TR

1	No.		14
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		WELULI I
4	Name of District		Covalima
	Name of Sub-district		Zumalai
5	Name of Suco		Cassa
	Name of Aldeia		Leo Lima
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	780005
		Y=	8989206
	Grid reference in Irr. scheme except for above facility	X=	778298
		Y=	8983682
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	280
		Width(m) for typical	0.60
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		45
9	Actual irrigation area (ha)		197
10	Original or planned irrigation area (ha)		170.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

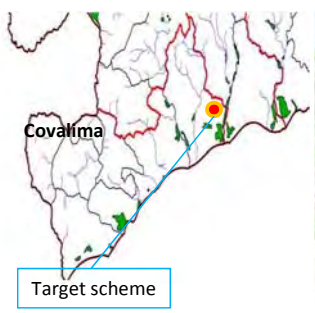
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : NATAR KABARAK 2-b-15TR

1	No.		15	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		NATAR KABARAK				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		suai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SUAI LORO				Climate change (decrease of river flow	✓
	Name of Aldeia		MANEIKUN				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	743916				Damage to irrigation structure	
		Y=	8964436				Others	
	Grid reference in Irr. scheme except for above facility	X=	745263			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8964373			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	3,000				No	
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		365			Gate maintenance		
9	Actual irrigation area (ha)		782			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		180.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year						
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- This intake is shared by four schems, 2-b-15TR Natar Kabarak, 2-b-16TR We boot, 2-b-18TR Tia Tololo and 2-b-add-1 Weau.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

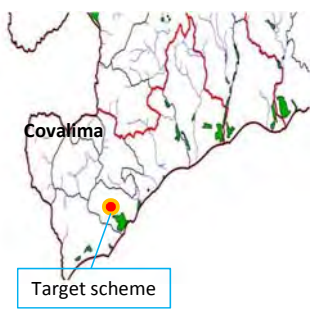
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WE BOOT 2-b-16TR

1	No.		16
2	Date of Survey		20/12/2013
3	Name of Irrigation scheme		WE BOOT
4	Name of District		Covalima
	Name of Sub-district		Suai
5	Name of Suco		SUAI-LORO
	Name of Aldeia		MANE-IKUN
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	748018
		Y=	8965496
	Grid reference in Irr. scheme except for above facility	X=	747763
		Y=	8965269
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	89
		Width(m) for typical	6.00
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		380
9	Actual irrigation area (ha)		782
10	Original or planned irrigation area (ha)		180.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- This intake is shared by four schems, 2-b-15TR Natar Kabarak, 2-b-16TR We boot, 2-b-18TR Tia Tololo and 2-b-add-1 Weau. -		

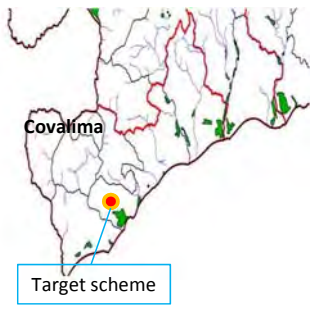
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	**60**
Evaluation of degree on immediate treatment			**B**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WEBUSA 2-b-17TR

1	No.		17
2	Date of Survey		20/12/2013
3	Name of Irrigation scheme		WEBUSA
4	Name of District		Covalima
	Name of Sub-district		Suai
5	Name of Suco		DEBOS
	Name of Aldeia		LONTOLE
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	743830
		Y=	8966315
	Grid reference in Irr. scheme except for above facility	X=	743981
		Y=	8966339
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.00
		Number of span =	1
		Width/1span (m)=	3.00
		Number of gates=	1
	/ If Canal→	Length of main	2,000
		Width(m) for typical	0.80
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		210
9	Actual irrigation area (ha)		782
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	2000s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

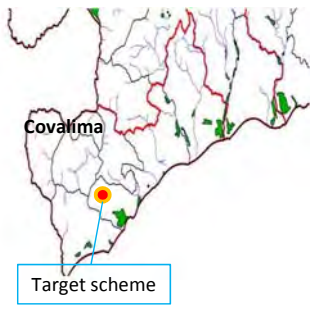
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : TIA TOLOLO 2-b-18TR

1	No.		18	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		TIA TOLOLO				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		suai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SUAI LORO				Climate change (decrease of river flow	
	Name of Aldeia		MANEIKUN				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	743916				Damage to irrigation structure	
		Y=	8964436				Others	
	Grid reference in Irr. scheme except for above facility	X=	746681			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8964845			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	3,000				No	
		Width(m) for typical	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		365			Gate maintenance		
9	Actual irrigation area (ha)		782			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		50.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year						
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- This intake is shared by four schems, 2-b-15TR Natar Kabarak, 2-b-16TR We boot, 2-b-18TR Tia Tololo and 2-b-add-1 Weau. -		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

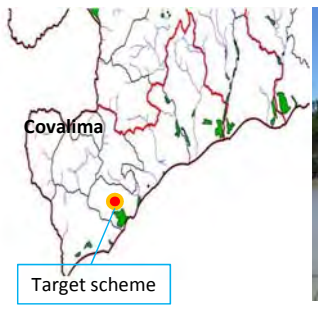
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	60
Evaluation of degree on immediate treatment			B

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WE DARE 2-b-19TR

1	No.		19	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		WE DARE				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Suai			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		CAMANASA				Climate change (decrease of river flow	✓
	Name of Aldeia		MANEIKUN				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	755055				Damage to irrigation structure	
		Y=	8971463				Others	
	Grid reference in Irr. scheme except for above facility	X=	754860			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8971309			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=	12.0				Others	
		Height(m)=	3.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=	15.00		a-3) Name of representative of WG or WUAs			
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	1.00				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	0.80				kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	150				No	
		Width(m) for typical	1.20		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		200			Gate maintenance		
9	Actual irrigation area (ha)		21			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		75.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year						
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓			Others		
		Weir (Wooden		16	Opinion or request by interviewee	- Some falicities related to oil will be constructed.		
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry						
		Earth/Soil						
		Others						

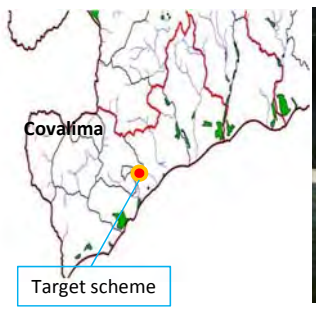
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		
Size of area (10 pts, more than 100ha) -		Total Points	20
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : BELURUK 2-b-20TR

1	No.		20
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		BELURUK
4	Name of District		Covalima
	Name of Sub-district		Zumalai
5	Name of Suco		BECO
	Name of Aldeia		HAEMANO
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	759324
		Y=	8973802
	Grid reference in Irr. scheme except for above facility	X=	759582
		Y=	8973757
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	8.0
		Depth(m)=	1.00
		Number of Pond =	1
8	Number of house hold in service area		56
9	Actual irrigation area (ha)		20
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

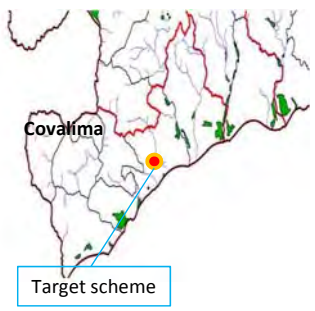
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha)	-	Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : GALAG 2-b-21TR

1	No.		21	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		3/4/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		GALAG				A few in 5 years	
4	Name of District		Covalima				A few in 10 years	
	Name of Sub-district		Suai			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		BECO				Climate change (decrease of river flow	✓
	Name of Aldeia		GALAG				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	759915				Damage to irrigation structure	
		Y=	8988260				Others	
	Grid reference in Irr. scheme except for above facility	X=	759943			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8988059					
7	What kind of structure?	Weir				Others		
		Intake		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	280		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.60		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		45		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		86			Gate maintenance		
10	Original or planned irrigation area (ha)		170.0			Canal Cleaning		✓
11	Original constructed year	Year's				Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

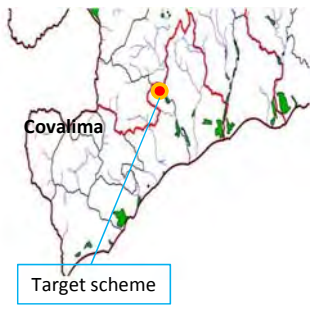
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	40
Evaluation of degree on immediate treatment			C

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any

District : Covalima Irrigation scheme : WE'AU

1	No.		22
2	Date of Survey		3/4/2014
3	Name of Irrigation scheme		WE'AU
4	Name of District		Covalima
	Name of Sub-district		Suai
5	Name of Suco		SUAI LORO
	Name of Aldeia		MANEIKUN
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	743916
		Y=	8964436
	Grid reference in Irr. scheme except for above facility	X=	746827
		Y=	8963889
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,500
		Width(m) for typical	6.00
		Height(m)=	3.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		365
9	Actual irrigation area (ha)		Include"15,16,17,18"
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- This intake is shared by four schems, 2-b-15TR Natar Kabarak, 2-b-16TR We boot, 2-b-18TR Tia Tololo and 2-b-add-1 Weau.		

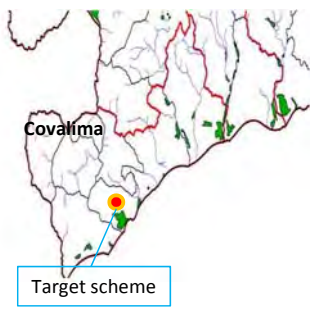
13			
	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	**30**
Evaluation of degree on immediate treatment			**C**

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



Remarks : describe supplemental and/or new information, if any