

6. Dili

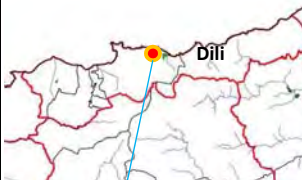

District :

Dili

Irrigation scheme :

Hera

1-a-Add-1

1	No.	2	14	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, transplant, harvest ect) (Reason) Others	<input checked="" type="checkbox"/>											
2	Date of Survey	11/12/2013	Is there any major problems in the scheme ?		<input checked="" type="checkbox"/>											
3	Name of Irrigation scheme	Hera			Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes No	<input checked="" type="checkbox"/>										
4	Name of District	Dili				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?	<input checked="" type="checkbox"/>									
5	Name of Suco	Hera					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	<input checked="" type="checkbox"/>								
6	Name of Aldeia	Holidolar						Opinion or request by interviewee - Water level of the river is not high enough to guide water to intake. The flood is the causal of the damages to the crops, it's the reason that no incomes	<input checked="" type="checkbox"/>							
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others							16 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	<input checked="" type="checkbox"/>						
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 794410 Y= 9054729								• 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 * 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  	<input checked="" type="checkbox"/>					
6	Grid reference in Irr. scheme except for above facility	X= 794413 Y= 9055197									17 What's kind of problem for the structure or facility, and reason of problem ?	<input checked="" type="checkbox"/>				
7	What kind of structure?	Weir Intake Canal Pond/Lake Others										18 Number of house hold in service area Actual irrigation area (ha) Original or planned irrigation area (ha) Original constructed year Year's Exact year Rehabilitated year	<input checked="" type="checkbox"/>			
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=											19 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	<input checked="" type="checkbox"/>		
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=												20 Original constructed year Year's Exact year Rehabilitated year	<input checked="" type="checkbox"/>	
7	/ If Canal→	Length of main Width(m) for typical Height(m)=													21 Original or planned irrigation area (ha)	<input checked="" type="checkbox"/>
7	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =														22 Original constructed year Year's Exact year Rehabilitated year
8	Number of house hold in service area	50		23 Original or planned irrigation area (ha)												
9	Actual irrigation area (ha)	38	24 Original constructed year Year's Exact year Rehabilitated year													
10	Original or planned irrigation area (ha)	50.0			25 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											
11	Original constructed year	Year's 2000s Exact year 2000 Rehabilitated year 2001				26 Original or planned irrigation area (ha)										
12	Which type of the water source ?	Spring River Water Under Ground Water Others					27 Original constructed year Year's Exact year Rehabilitated year									
12	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						28 Original or planned irrigation area (ha)								
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others							29 Original constructed year Year's Exact year Rehabilitated year							
13	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								30 Original or planned irrigation area (ha)						
13	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									31 Original constructed year Year's Exact year Rehabilitated year					
13	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										32 Original or planned irrigation area (ha)				
13	Problems on the other facilities												33 Original constructed year Year's Exact year Rehabilitated year			
14	Date of Survey	11/12/2013												34 Original or planned irrigation area (ha)		
15	Name of Irrigation scheme	Hera													35 Original constructed year Year's Exact year Rehabilitated year	
16	Name of District	Dili														36 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
17	Name of Sub-district	Cristo Rei II		37 Original or planned irrigation area (ha)												
18	Name of Suco	Hera	38 Original constructed year Year's Exact year Rehabilitated year													
19	Name of Aldeia	Holidolar			39 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											
20	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others				40 Original or planned irrigation area (ha)										
21	Grid reference at Intake/Pond/Lake/Spring/pump	X= 794410 Y= 9054729					41 Original constructed year Year's Exact year Rehabilitated year									
22	Grid reference in Irr. scheme except for above facility	X= 794413 Y= 9055197						42 Original or planned irrigation area (ha)								
23	What kind of structure?	Weir Intake Canal Pond/Lake Others							43 Original constructed year Year's Exact year Rehabilitated year							
24	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=								44 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						
25	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=									45 Original or planned irrigation area (ha)					
26	/ If Canal→	Length of main Width(m) for typical Height(m)=										46 Original constructed year Year's Exact year Rehabilitated year				
27	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =											47 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			
28	Number of house hold in service area	50												48 Original or planned irrigation area (ha)		
29	Actual irrigation area (ha)	38													49 Original constructed year Year's Exact year Rehabilitated year	
30	Original or planned irrigation area (ha)	50.0														50 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
31	Original constructed year	Year's 2000s Exact year 2000 Rehabilitated year 2001		51 Original or planned irrigation area (ha)												
32	Which type of the water source ?	Spring River Water Under Ground Water Others	52 Original constructed year Year's Exact year Rehabilitated year													
33	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			53 Original or planned irrigation area (ha)											
34	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others				54 Original constructed year Year's Exact year Rehabilitated year										
35	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					55 Original or planned irrigation area (ha)									
36	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						56 Original constructed year Year's Exact year Rehabilitated year								
37	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							57 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							
38	Problems on the other facilities									58 Original or planned irrigation area (ha)						
39	Date of Survey	11/12/2013									59 Original constructed year Year's Exact year Rehabilitated year					
40	Name of Irrigation scheme	Hera										60 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				
41	Name of District	Dili											61 Original or planned irrigation area (ha)			
42	Name of Sub-district	Cristo Rei II												62 Original constructed year Year's Exact year Rehabilitated year		
43	Name of Suco	Hera													63 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	
44	Name of Aldeia	Holidolar														64 Original or planned irrigation area (ha)
45	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		65 Original constructed year Year's Exact year Rehabilitated year												
46	Grid reference at Intake/Pond/Lake/Spring/pump	X= 794410 Y= 9054729	66 Original or planned irrigation area (ha)													
47	Grid reference in Irr. scheme except for above facility	X= 794413 Y= 9055197			67 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											
48	What kind of structure?	Weir Intake Canal Pond/Lake Others				68 Original constructed year Year's Exact year Rehabilitated year										
49	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=					69 Original or planned irrigation area (ha)									
50	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=						70 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								
51	/ If Canal→	Length of main Width(m) for typical Height(m)=							71 Original constructed year Year's Exact year Rehabilitated year							
52	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =								72 Original or planned irrigation area (ha)						
53	Number of house hold in service area	50									73 Original constructed year Year's Exact year Rehabilitated year					
54	Actual irrigation area (ha)	38										74 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				
55	Original or planned irrigation area (ha)	50.0											75 Original constructed year Year's Exact year Rehabilitated year			
56	Original constructed year	Year's 2000s Exact year 2000 Rehabilitated year 2001												76 Original or planned irrigation area (ha)		
57	Which type of the water source ?	Spring River Water Under Ground Water Others													77 Original constructed year Year's Exact year Rehabilitated year	
58	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														78 Original or planned irrigation area (ha)
59	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		79 Original constructed year Year's Exact year Rehabilitated year												
60	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	80 Original or planned irrigation area (ha)													
61	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			81 Original constructed year Year's Exact year Rehabilitated year											
62	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				82 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										
63	Problems on the other facilities						83 Original or planned irrigation area (ha)									
64	Date of Survey	11/12/2013						84 Original constructed year Year's Exact year Rehabilitated year								
65	Name of Irrigation scheme	Hera							85 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							
66	Name of District	Dili								86 Original or planned irrigation area (ha)						
67	Name of Sub-district	Cristo Rei II									87 Original constructed year Year's Exact year Rehabilitated year					
68	Name of Suco	Hera										88 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				
69	Name of Aldeia	Holidolar											89 Original or planned irrigation area (ha)			
70	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others												90 Original constructed year Year's Exact year Rehabilitated year		
71	Grid reference at Intake/Pond/Lake/Spring/pump	X= 794410 Y= 9054729													91 Original or planned irrigation area (ha)	
72	Grid reference in Irr. scheme except for above facility	X= 794413 Y= 9055197														92 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
73	What kind of structure?	Weir Intake Canal Pond/Lake Others		93 Original constructed year Year's Exact year Rehabilitated year												
74	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=	94 Original or planned irrigation area (ha)													
75	/ If Intake→	Length(m)= Height(m)= Number of span =														

7. Ermera

District : Ermera

Irrigation scheme :

BELULI

1-d-1S

1	No.	1	14							
2	Date of Survey	16/12/2013								
3	Name of Irrigation scheme	BELULI								
4	Name of District	Ermera								
4	Name of Sub-district	Ermera								
5	Name of Suco	TALIMORO								
5	Name of Aldeia	BURA								
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= 767060 Y= 9034463							
	Grid reference in Irr. scheme except for above facility	X= 766164 Y= 9034929								
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)=	300 0.40 0.16							
	/ 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)	46								
10	Original or planned irrigation area (ha)	70.0								
11	Original constructed year	Year's	Before 1970s							
		Exact year	1968							
		Rehabilitated year	2012							
12	Which type of the water source ?	Spring								
		River Water								
		Under Ground Water								
		Others	-Water is supplied fromTALIMORO							
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)								
		Weir (Wooden)								
		Free intake								
		Intake with Gates								
		Pond/Lake								
		Canal	✓							
	If respondent select above "☑ Canal", show the type of canal	Concrete	✓							
		Wet Masonry	✓							
		Earth/Soil	✓							
		Others								
		<small>The Main Canal in BELULI is a Traditional Canal but the canal from TALIMORO scheme is concrete but</small>								
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									
Remarks : describe supplemental and/or new information, if any										

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, transplant, harvest ect) (Reason)			
Others			

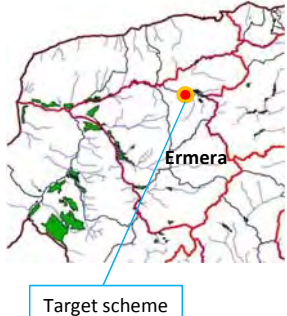

15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
	No		
a) In case of YES			
a-1) What kind of the WG or WUAs ?		WUAs	
		Traditional WG	✓
		Others	
a-2) How many number of WG or WUAs in the irrigation scheme ?			2
a-3) Name of representative of WG or WUAs			Domingos D. Soares
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
		by Rice	US\$/ha as water fee 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	-Water is supplied fromTALIMORO scheme.		
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●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

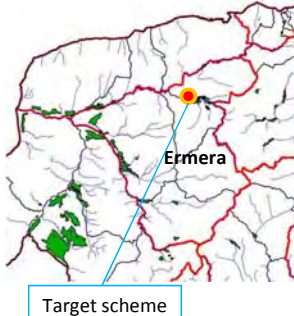




Target scheme

District : Ermera

Irrigation scheme : TALIMORO

1-d-3S

1	No.	3	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	16/12/2013			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	TALIMORO				A few in 10 years	
4	Name of District	Ermera				Not functional of irrigation structure	
	Name of Sub-district	Ermera				Climate change (decrease of river flow)	✓
5	Name of Suco	TALIMORO				Others	
	Name of Aldeia	BURA					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 767051 Y= 9034491				(Contents of damage)	Wash out the land Damage to irrigation structure Others
	Grid reference in Irr. scheme except for above facility	X= 766883 Y= 9034807				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others	✓
	/ If Intake →	Length(m)= 3.00 Height(m)= 0.60 Number of span = 1 Width/1span (m)= 0.82 Number of gates=			a-1) What kind of the WG or WUAs ?		
	/ If Canal →	Length of main 800 Width(m) for typical 1.00 Height(m)= 0.60			a-2) How many number of WG or WUAs in the irrigation scheme ?		5
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		- Julio Soares Alves
8	Number of house hold in service area	25			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
9	Actual irrigation area (ha)	14			/ 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	
10	Original or planned irrigation area (ha)	202.0			by Rice kg/HH as member ship fee kg/ha as water fee		
11	Original constructed year	Year's Before 1970s Exact year 1965 Rehabilitated year 2012			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 % for years	✓
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			/ if respondent select above "✓" Yes", How change of fee?	Increase Decrease % for years	
	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
	If respondent select above "✓ Canal", show the type of canal	Concrete ✓ Wet Masonry Earth/Soil Others			a-7) How often are the meeting held in a year?		1
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		16	Opinion or request by interviewee	- This scheme supplies water to both 1-d-3S TALIMORO and 1-d-1S BELULI.	
					● 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 * 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   Target scheme		
Remarks : describe supplemental and/or new information, if any							

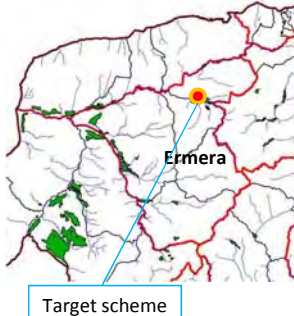
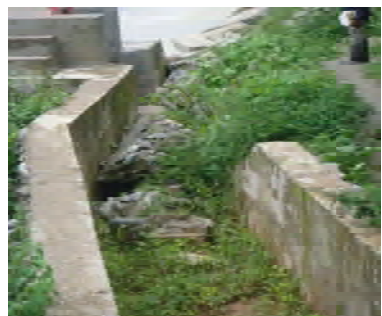
District :

Aileu

Irrigation scheme :

LAUALA

1-d-4S

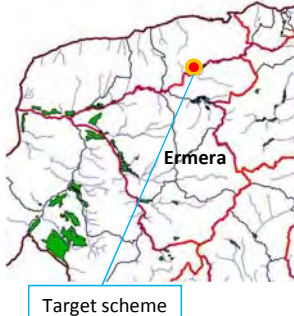

1	No.	4	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	26/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	LAUALA				Not functional of irrigation structure	✓
4	Name of District	Aileu				Climate change (decrease of river flow)	
5	Name of Sub-district	Aileu				Others	
6	Name of Suco	LAUALA					
6	Name of Aldeia	ERBILHAL					
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir Others			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 770293 Y= 9034328				(Contents of damage)	Wash out the land ✓ Damage to irrigation structure Others
6	Grid reference in Irr. scheme except for above facility	X= 769762 Y= 9034730				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No
7	/ If Weir →	Length(m)= 4.0 Height(m)= 1.60 Width/1span (m)= 5.00 Number of span = 1 Number of gates= 2			a) In case of YES	a-1) What kind of the WG or WUAs ?	WUAs ✓ Traditional WG Others
7	/ If Intake →	Length(m)= 1.30 Height(m)= 1 Width/1span (m)= 1.12 Number of gates= 1			a-2) How many number of WG or WUAs in the irrigation scheme ?	a-2) How many number of WG or WUAs in the irrigation scheme ?	1
7	/ If Canal →	Length of main 1,800 Width(m) for typical 1.22 Height(m)= 1.12			a-3) Name of representative of WG or WUAs	a-3) Name of representative of WG or WUAs	Same as Contact Person
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes ✓ No
8	Number of house hold in service area	25			/ 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	
9	Actual irrigation area (ha)	129			by Rice kg/HH as member ship fee kg/ha as water fee		
10	Original or planned irrigation area (ha)	2.0			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 ✓ No Increase % Decrease %	
11	Original constructed year	Year's 1980s Exact year 1982 Rehabilitated year 2012			/ if respondent select above "Yes", How change of fee?	for years for years	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
12	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			a-7) How often are the meeting held in a year?	a-7) How often are the meeting held in a year?	1
12	If respondent select above "Canal", show the type of canal	Concrete ✓ Wet Masonry Earth/Soil ✓ Others			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	
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			16	Opinion or request by interviewee	- This scheme has 2 Intakes but the main one was damaged by flood and was replaced around 250/300 m from the secondary Intake. Secondary intake also has damage. "It was difficult to reach the area due to the stream." "Accorignito to the list A, this scheme is located in Ermera district but in Aileu acrually."
13		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				● 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)
13		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					Size of area (10 pts, more than 100ha) Total Points 80
13		Problems on the other facilities					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).
13							● Location of Irrigation Scheme
13							 

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

District : Ermera

Irrigation scheme : MOTA - HARE

1-d-6S

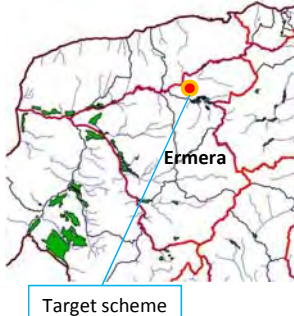

1	No.	6	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	27/12/2013				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	MOTA - HARE					A few in 10 years	
4	Name of District	Ermera					Not functional of irrigation structure	
5	Name of Sub-district	Railaco					Climate change (decrease of river flow)	
6	Name of Suco	LILU					Others	
6	Name of Aldeia	Hii						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?		Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					A few in 10 years	
		Others					Wash out the land	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 768542 Y= 9042667					Damage to irrigation structure
	Grid reference in Irr. scheme except for above facility	X= 768264 Y= 9042458					Others	
7	What kind of structure?	Weir		15		Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
		Intake	✓	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Others		
		Canal	✓	Yes				✓
		Pond/Lake		No				
		Others		a) In case of YES				
	/ If Weir→	Length(m)=		a-1) What kind of the WG or WUAs ?		WUAs		
		Height(m)=				Traditional WG	✓	
		Width/1span (m)=				Others		
		Number of span =		a-2) How many number of WG or WUAs in the irrigation scheme ?				3
		Number of gates=		a-3) Name of representative of WG or WUAs				Abrão Fatima soares
	/ If Intake→	Length(m)=	2.50	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes		
		Height(m)=	0.40			No	✓	
		Number of span =	1	/ if respondent select above "✓" Yes", which way do farmers pay the above fee?		by Cash	US\$/HH as member ship fee	
		Width/1span (m)=	1.70			by Rice	US\$/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 ?		kg/HH as member ship fee		
	/ If Canal→	Length of main	2,000			kg/ha as water fee		
		Width(m) for typical	1.50			Yes		✓
		Height(m)=	0.40			No		
	/ If Pond or lake→	Diameter of Pond(m) =		/ if respondent select above "✓" Yes", How change of fee?		Increase	%	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area	140		a-6) What is		Gate operation		
9	Actual irrigation area (ha)	22				Gate maintenance		
10	Original or planned irrigation area (ha)	28.0				Canal Cleaning	✓	
11	Original constructed year	Year's	Before 1970s			Canal Rehabilitation		
		Exact year	1960			Others		
		Rehabilitated year	2008					
12	Which type of the water source ?	Spring		16		a-7) How often are the meeting held in a year?		2
		River Water	✓					
		Under Ground Water				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)	
	If respondent select above "✓" river water", show the type of irrigation facility	Others					The WG or WUAs is under establishment. (Expected establishment year)	
		Weir (concrete)					Not required to establish (Reason)	
		Weir (Wooden)					Already expired (Reason)	
		Free intake	✓				Others	
		Intake with Gates						
		Pond/Lake						
	If respondent select above "✓" Canal", show the type of canal	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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)		Total Points		30
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal			Evaluation of degree on immediate treatment			
		Broken	✓		* Evaluation criteria			
		Not functional by deterioration	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/stone (sedimentation)			●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

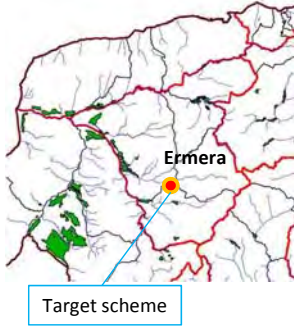

District : Ermera

Irrigation scheme :

KUKRU-MATE

1-d-6TR

1	No.	7	14					
2	Date of Survey	27/12/2013						
3	Name of Irrigation scheme	KUKRU-MATE						
4	Name of District	Ermera						
	Name of Sub-district	Ermera						
5	Name of Suco	POETETE						
	Name of Aldeia	URLULI						
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others						
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 767602 Y= 9036166						
	Grid reference in Irr. scheme except for above facility	X= 767077 Y= 9036002						
7	What kind of structure?	Weir <input checked="" type="checkbox"/> Intake Canal <input checked="" type="checkbox"/> 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 350 Width(m) for typical 0.80 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	194						
9	Actual irrigation area (ha)	9						
10	Original or planned irrigation area (ha)	10.0						
11	Original constructed year	Year's Before 1970s Exact year 1964 Rehabilitated year						
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water <input checked="" type="checkbox"/> Under Ground Water Others						
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others						
	If respondent select above "Canal", show the type of canal	Concrete <input checked="" type="checkbox"/> Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> 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						
	Opinion or request by interviewee							
	Is there any major problems in the scheme ?							
	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes <input checked="" type="checkbox"/> No						
	a) In case of YES							
	a-1) What kind of the WG or WUAs ?	WUAs <input checked="" type="checkbox"/> Traditional WG Others						
	a-2) How many number of WG or WUAs in the irrigation scheme ?	7						
	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 <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> No Increase % for years Decrease % for years						
	a-6) What is	Gate operation Gate maintenance Canal Cleaning <input checked="" type="checkbox"/> 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						
	● 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							

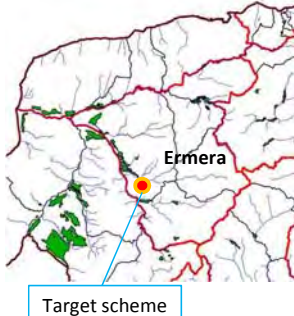

1	No.	8	14							
2	Date of Survey	10/1/2014		Is there any major problems in the scheme ? Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? a-2) How many number of WG or WUAs in the irrigation scheme ? a-3) Name of representative of WG or WUAs a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs? / if respondent select above "Yes", which way do farmers pay the above 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 ? / if respondent select above "Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee	Shortage of Irrigation Water (Frequency)	Every year A few in 5 years A few in 10 years	<input checked="" type="checkbox"/>			
3	Name of Irrigation scheme	MALABE			(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others				
4	Name of District	Ermera			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years				
5	Name of Sub-district	Atsabe				(Contents of damage)	Wash out the land Damage to irrigation structure Others			
6	Name of Suco	MALABE			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
6	Name of Aldeia	MALABE								
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>							
		Intake with gates								
		Pond/Lake/Spring								
		Weir								
		Others								
		Grid reference at Intake/Pond/Lake/Spring/pump	X=		762368					
			Y=		9014775					
		Grid reference in Irr. scheme except for above facility	X=		762357					
			Y=	9014432						
		7	What kind of structure?	Weir		15	Yes	<input checked="" type="checkbox"/>		
		Intake	<input checked="" type="checkbox"/>		No					
		Canal	<input checked="" type="checkbox"/>							
		Pond/Lake								
		Others								
	/ If Weir→	Length(m)=			WUAs					
		Height(m)=			Traditional WG	<input checked="" type="checkbox"/>				
		Width/1span (m)=			Others					
		Number of span =					2			
		Number of gates=					Hamori Malabe- Foto Malabe			
	/ If Intake→	Length(m)=	0.30		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	<input checked="" type="checkbox"/>			
		Height(m)=	0.15		/ 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				
		Number of span =	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 No				
		Width/1span (m)=	0.20		/ if respondent select above "Yes", How change of fee?	Increase % for years Decrease % for years				
		Number of gates=	0		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	<input checked="" type="checkbox"/>			
	/ If Canal→	Length of main	300		a-7) How often are the meeting held in a year?		6			
		Width(m) for typical	1.00							
		Height(m)=	0.17							
	/ If Pond or lake→	Diameter of Pond(m) =								
		Depth(m)=								
		Number of Pond =								
8	Number of house hold in service area	245								
9	Actual irrigation area (ha)	47								
10	Original or planned irrigation area (ha)	65.0								
11	Original constructed year	Year's	Before 1970s							
		Exact 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) The WG or WUAs is under establishment. (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others					
		River Water	<input checked="" type="checkbox"/>							
		Under Ground Water								
		Others								
		If respondent select above "River water", show the type of irrigation facility	Weir (concrete)							
			Weir (Wooden)							
			Free intake	<input checked="" type="checkbox"/>						
			Intake with Gates							
			Pond/Lake							
			Canal	<input checked="" type="checkbox"/>						
If respondent select above "Canal", show the type of canal	Others									
	Concrete	<input checked="" type="checkbox"/>								
	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		<input checked="" type="checkbox"/>	●Evaluation of Irrigation scheme					
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration								
		Cannot operate the gate								
		Cannot keep the water level for some reasons (Details)		- Span is small.						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	60		
		High maintenance cost of structure (Annual Cost US\$)								
		(Contents of maintenance with high cost)								
		others								
		Problems on Canal		<input checked="" type="checkbox"/>	Evaluation of degree on immediate treatment					
		Broken			* Evaluation criteria					
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Obstruction of sand/stone (sedimentation)			●Location of Irrigation Scheme					
		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										
Remarks : describe supplemental and/or new information, if any										

District : Ermera

Irrigation scheme : SIRUI

SIRUI

1-d-7S

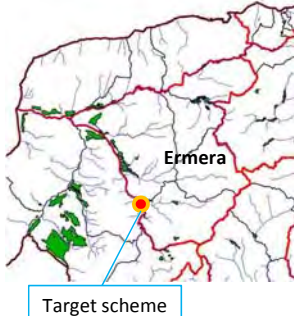

1	No.	9	14						
2	Date of Survey	10/1/2014							
3	Name of Irrigation scheme	SIRUI							
4	Name of District	Ermera							
	Name of Sub-district	Alsabe							
5	Name of Suco	LAUBONU							
	Name of Aldeia	SIRUI							
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others							
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 757579 Y= 9014691							
	Grid reference in Irr. scheme except for above facility	X= 756996 Y= 9015092							
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)= 1.30 Number of span = 1 Width/1span (m)= 2.80 Number of gates= 0							
	/ If Canal →	Length of main Width(m) for typical 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	46							
9	Actual irrigation area (ha)	100							
10	Original or planned irrigation area (ha)	15.0							
11	Original constructed year	Year's Before 1970s 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							
	Opinion or request by interviewee								
	Is there any major problems in the scheme ?								
	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								Dialu- Amagi Malak- Matak Burs
	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 Increase % for years Decrease % for years							
	/ if respondent select above "✓ Yes", How change of fee?								
	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							
	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						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								
	 								
	Target scheme								
Remarks : describe supplemental and/or new information, if any									

District : Ermera

Irrigation scheme :

MERAP-PUH

1-d-8TR

1	No.	10	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	9/1/2014				(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	MERAP-PUH					A few in 10 years		
4	Name of District	Ermera					Not functional of irrigation structure		
	Name of Sub-district	Alsabe					Climate change (decrease of river flow)		
5	Name of Suco	LAUBONU					Others		
	Name of Aldeia	SIRUI							
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					Wash out the land	✓	
		Others					Damage to irrigation structure		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 756492 Y= 9011346					Others	
	Grid reference in Irr. scheme except for above facility	X= 755890 Y= 9011700				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
7	What kind of structure?	Weir				Others			
		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)=	0.15						
		Number of span =	1						
		Width/1span (m)=	3.00						
		Number of gates=	0						
	/ If Canal→	Length of main	300						
		Width(m) for typical	1.00						
		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	28							
9	Actual irrigation area (ha)	11							
10	Original or planned irrigation area (ha)	46.0							
11	Original constructed year	Year's Before 1970s							
		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	✓						
	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	✓			●Evaluation of Irrigation scheme			
		Broken				Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)	✓						
		Obstruction of sand/stone (sedimentation)	✓			Size of area (10 pts, more than 100ha)		Total Points	70
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
		others							
		Problems on Canal				Evaluation of degree on immediate treatment			
		Broken				* Evaluation criteria			
		Not functional by deterioration				A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate				B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)				C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)				●Location of Irrigation Scheme			
		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								

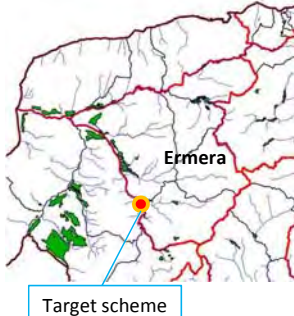

Remarks : describe supplemental and/or new information, if any

District : Ermera

Irrigation scheme :

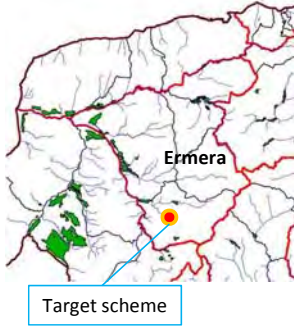

AIBEI

1-d-9TR


1	No.	11	14																								
2	Date of Survey	10/1/2014																									
3	Name of Irrigation scheme	AIBEI																									
4	Name of District	Ermera																									
	Name of Sub-district	Alsabe																									
5	Name of Suco	LAUBONU																									
	Name of Aldeia	SIRUI																									
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir Others		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																						
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 756491 Y= 9011343			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																						
	Grid reference in Irr. scheme except for above facility	X= 755880 Y= 9011662			Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others																						
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes No		✓																				
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others		✓																				
	/ If Intake →	Length(m)= 6.00 Height(m)= 2.00 Number of span = 1 Width/1span (m)= 2.00 Number of gates= 1		a-1) What kind of the WG or WUAs ?																							
	/ If Canal →	Length of main 850 Width(m) for typical 1.50 Height(m)= 1.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			3																				
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-3) Name of representative of WG or WUAs			Jaku- Auzi Usak- Makik Bura																				
8	Number of house hold in service area	180		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓																				
9	Actual irrigation area (ha)	include "B"		/ 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																						
10	Original or planned irrigation area (ha)			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 Increase % Decrease %																						
11	Original constructed year	Year's Before 1970s Exact year Rehabilitated year		/ if respondent select above "Yes", How change of fee?	Increase % Decrease %																						
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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		a-7) How often are the meeting held in a year?			2																				
	If respondent select above "Canal", show the type of canal	Concrete ✓ Wet Masonry ✓ Earth/Soil Others		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																						
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	✓	16	Opinion or request by interviewee																						
		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																									
<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td>●</td> <td>●</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>70</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>A</td> </tr> <tr> <td colspan="4">* 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)</td> </tr> </table> <p>● Location of Irrigation Scheme</p>  								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)			
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)																											
Remarks : describe supplemental and/or new information, if any																											

District : Ermera

Irrigation scheme : MANAFUNIA(replaced Manubabi) 1-d-10TR

1	No.	12	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	26/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓	
3	Name of Irrigation scheme	MANAFUNIA(replaced Manubabi)				Not functional of irrigation structure Climate change (decrease of river flow) Others		
4	Name of District	Ermera						
5	Name of Sub-district	Atsabe						
6	Name of Suco	ATARA						
6	Name of Aldeia	WABE						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years A few in 10 years	
		Pond/Lake/Spring					Wash out the land Damage to irrigation structure	✓
		Weir					Others	
		Others					Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 762293 Y= 9006748				Others	
	Grid reference in Irr. scheme except for above facility	X= 762215 Y= 9007027						
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)= Height(m)= Width/1span (m)= Number of span = Number of gates =		Others			
		/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates =		a-2) How many number of WG or WUAs in the irrigation scheme ?		4	
		/ If Canal→	Length of main = 3,000 Width(m) for typical = 1.00 Height(m)= 0.20		a-3) Name of representative of WG or WUAs			
		/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
8	Number of house hold in service area	75			/ 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		
9	Actual irrigation area (ha)	42			by Rice kg/HH as member ship fee kg/ha as water fee			
10	Original or planned irrigation area (ha)	35.0			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 No % Increase % Decrease % for years		
11	Original constructed year	Before 1970s Exact year 1942 Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓	
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		a-7) How often are the meeting held in a year?		2	
	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	✓		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		
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	✓	16	Opinion or request by interviewee	"Manubabi has no paddy land due to urbanization and all the farmers moved to Manufinia. "Manufinia has 35 ha farmland but only for vegetable, no paddy field.		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	●Evaluation of Irrigation scheme			
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration		✓				
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal		✓	* Evaluation criteria			
		Broken		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)			●Location of Irrigation Scheme			
		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							

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

1	No.	13	14														
2	Date of Survey	11/1/2014															
3	Name of Irrigation scheme	SAMARA															
4	Name of District	Ermera															
	Name of Sub-district	Hatulia															
5	Name of Suco	SAMARA															
	Name of Aldeia	PETALARA															
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?													
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 753034 Y= 9022370															
	Grid reference in Irr. scheme except for above facility	X= 752126 Y= 9021879															
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?													
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
	/ If Intake →	Length(m)= 3.00 Height(m)= 0.80 Number of span = 1 Width/1span (m)= 1.60 Number of gates= 1		a) In case of YES													
	/ If Canal →	Length of main 200 Width(m) for typical 0.80 Height(m)= 0.80		a-1) What kind of the WG or WUAs ?													
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		WUAs Traditional WG <input checked="" type="checkbox"/> Others													
8	Number of house hold in service area	250		a-2) How many number of WG or WUAs in the irrigation scheme ?													
9	Actual irrigation area (ha)	414		a-3) Name of representative of WG or WUAs													
10	Original or planned irrigation area (ha)	370.0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?													
11	Original constructed year	Year's Before 1970s Exact year Rehabilitated year		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		/ if respondent select above "Yes", which way do farmers pay the above fee?													
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake Intake with Gates <input checked="" type="checkbox"/> Pond/Lake Canal <input checked="" type="checkbox"/> Others		by Cash US\$/HH as member ship fee US\$/ha as water fee													
	If respondent select above "Canal", show the type of canal	Concrete <input checked="" type="checkbox"/> Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		by Rice kg/HH as member ship fee kg/ha as water fee													
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate Cannot keep the water level for some reasons (Details) Obstruction of sand/stone (sedimentation) <input checked="" type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?													
	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		Increase <input type="checkbox"/> Decrease <input type="checkbox"/> % for years													
	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		a-6) What is													
	Problems on the other facilities			Gate operation <input checked="" type="checkbox"/> Gate maintenance Canal Cleaning <input checked="" type="checkbox"/> Canal Rehabilitation Others													
Remarks : describe supplemental and/or new information, if any				a-7) How often are the meeting held in a year?													
				Yes <input type="checkbox"/> No <input type="checkbox"/>													
				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													
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>50</td> </tr> </table> <p>Evaluation of degree on immediate treatment</p> <p>* 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)</p> <p>● Location of Irrigation Scheme</p> 		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
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														

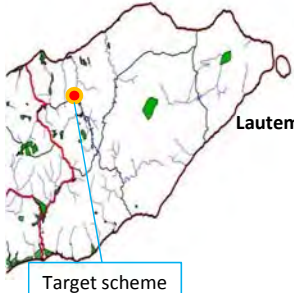

8. Lautém

District : **Lautém**

Irrigation scheme :

AFABUBU

6-a-2TC

1	No.	2	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	19/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓	
3	Name of Irrigation scheme	AFABUBU				Not functional of irrigation structure	✓	
4	Name of District	Lautém				Climate change (decrease of river flow)		
	Name of Sub-district	Luro				Others		
5	Name of Suco	AFABUBU						
	Name of Aldeia	ODOFURU						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years		
		Intake with gates				(Contents of damage)	Wash out the land Damage to irrigation structure Others	
		Pond/Lake/Spring				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
		Weir				Others		
		Others						
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 260570.77 Y= 9058454.65					
	Grid reference in Irr. scheme except for above facility	X= 260881 Y= 9058514						
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓	
		Intake	✓		a) In case of YES	WUAs Traditional WG Others	✓	
		Canal	✓		a-1) What kind of the WG or WUAs ?			
		Pond/Lake			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Others			a-3) Name of representative of WG or WUAs			
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			/ 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		
	/ If Canal→	Length of main Width(m) for typical Height(m)=	500 0.80 0.65		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 Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			/ if respondent select above "✓ Yes", How change of fee?	Increase % for years Decrease % for years		
8	Number of house hold in service area	30			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓	
9	Actual irrigation area (ha)	23			a-7) How often are the meeting held in a year?			
10	Original or planned irrigation area (ha)	15.0			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		
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970		16	Opinion or request by interviewee		
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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration		●	●			
		Cannot operate the gate		Size of area (10 pts, more than 100ha)		Total Points	60	
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		Evaluation of degree on immediate treatment				
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		* Evaluation criteria				
		others		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Problems on Canal	✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Broken	✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Not functional by deterioration	✓	●Location of Irrigation Scheme				
		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							

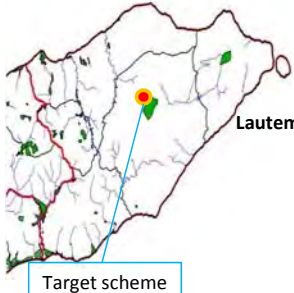

Remarks : describe supplemental and/or new information, if any

District : **Lautém**

Irrigation scheme :

PAPAPA

6-a-3S

1	No.	3	14				
2	Date of Survey	22/12/2013		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		✓
3	Name of Irrigation scheme	PAPAPA			A few in 5 years		✓
4	Name of District	Lautém			A few in 10 years		
5	Name of Sub-district	Lospalos			Not functional of irrigation structure		
6	Name of Suco	FUILORO			Climate change (decrease of river flow)		✓
6	Name of Aldeia	LOS PALA			Others		
6	Observing location of the Grid	Free Intake	✓				
6		Intake with gates					
6		Pond/Lake/Spring	✓				
6		Weir					
6	Grid reference at Intake/Pond/Lake/Spring/pump	X=	278808				
6		Y=	9057940				
6	Grid reference in Irr. scheme except for above facility	X=	280054				
6		Y=	9058476				
7	What kind of structure?	Weir					
7	/ 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 =	Intake	✓	15 Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "✓ Yes", which way do farmers pay the above 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 ? / if respondent select above "✓ Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee	Yes	✓	
7		Canal	✓		No		
7		Pond/Lake	✓		WUAs		
7		Others			Traditional WG	✓	
7		Others			Others		
7		Others					
7		Others					
7		Others					
7		Others					
7		Others					
8	Number of house hold in service area	80					
9	Actual irrigation area (ha)	944					
10	Original or planned irrigation area (ha)	60.0					
11	Original constructed year	Year's	1970s				
11		Exact year	1976				
11		Rehabilitated year					
12	Which type of the water source ?	Spring	✓	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		✓	
12		River Water	✓				
12		Under Ground Water					
12		Others					
12	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)	✓				
12		Weir (Wooden)					
12		Free intake					
12		Intake with Gates					
12		Pond/Lake					
12		Canal	✓				
12	If respondent select above "✓ Canal", show the type of canal	Concrete	✓				
12		Wet Masonry					
12		Earth/Soil	✓				
12		Others					
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme			
13		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
13		Not functional by deterioration					
13		Cannot operate the gate					
13		Cannot keep the water level for some reasons (Details)					
13		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)			
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Total Points		60
13		others					
13		Problems on Canal		Evaluation of degree on immediate treatment			
13		Broken	✓	* Evaluation criteria			
13		Not functional by deterioration	✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
13		Cannot operate the gate	✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
13		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
13		Obstruction of sand/Stone (sedimentation)	✓	●Location of Irrigation Scheme			
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		 			
13		Others					
13		Problems on Pond/Lake					
13		Broken					
13	Not functional by deterioration						
13	Cannot operate the outlet gate						
13	Cannot keep the water in pond for some reasons (Details)						
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13	Others						
13	Problems on the other facilities						

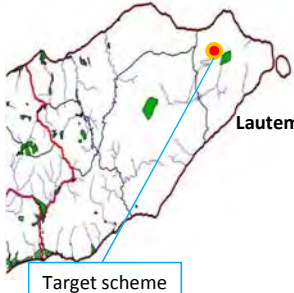

Remarks : describe supplemental and/or new information, if any

District : **Lautém**

Irrigation scheme :

MALAISSORO

6-a-4TR

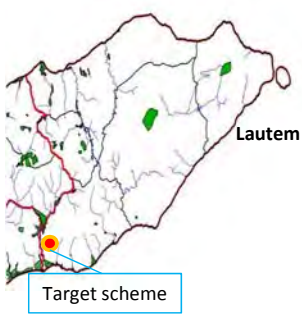

1	No.	4	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	7/1/2014			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	MALAISSORO				A few in 10 years		
4	Name of District	Lautém				Not functional of irrigation structure		
	Name of Sub-district	Tutuala				Climate change (decrease of river flow)	✓	
5	Name of Suco	MEHANA				Others		
	Name of Aldeia	PORLAMANO						
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	✓	14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 298507.23 Y= 9069578.34				(Contents of damage)	Wash out the land Damage to irrigation structure Others	
	Grid reference in Irr. scheme except for above facility	X= 301434 Y= 9069120				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir Intake Canal Pond/Lake Others	✓ ✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others		
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?			
	/ If Canal →	Length of main Width(m) for typical Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs			
8	Number of house hold in service area	417			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
9	Actual irrigation area (ha)	443			/ 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		
10	Original or planned irrigation area (ha)	521.0			by Rice kg/HH as member ship fee kg/ha as water fee			
11	Original constructed year	1970s			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	✓	
	Exact year				/ if respondent select above "✓" Yes", How change of fee?	Increase % for years Decrease % for years		
	Rehabilitated year				a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓ ✓		a-7) How often are the meeting held in a year?			
	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	✓		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	✓ is to establish a group.	
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others			16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group. - Location of paddy field is higher than pond.	
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	✓ ✓		● Evaluation of Irrigation scheme			
		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			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		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	✓		Size of area (10 pts, more than 100ha)		Total Points	30
		Problems on the other facilities			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			
								
					- Paddy field is higher			
Remarks : describe supplemental and/or new information, if any								

District : **Lautém**

Irrigation scheme :

IRABERE

6-a-5TR

1	No.	5	14								
2	Date of Survey	22/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	IRABERE					(Cause or Reason)	A few in 5 years		✓	
4	Name of District	Lautém						A few in 10 years			
	Name of Sub-district	Iliomar						Not functional of irrigation structure			
5	Name of Suco	TIRILOLO						Climate change (decrease of river flow)		✓	
	Name of Aldeia	EUEUATA						Others			
6	Observing location of the Grid	Free Intake	✓				Flood Damage to irrigation scheme (Frequency)	Every year		✓	
		Intake with gates							A few in 5 years		✓
		Pond/Lake/Spring							A few in 10 years		
		Weir							(Contents of damage)	Wash out the land	
		Others						Damage to irrigation structure		✓	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 251234 Y= 9033378				Others					
	Grid reference in Irr. scheme except for above facility	X= 252102 Y= 9033012				Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
7	What kind of structure?	Weir				Others		River bed is 3m			
		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)=	100.00					No		✓	
		Height(m)=	4.00				/ 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					by Rice	US\$/ha as water fee		
		Width/1span (m)=	2.00				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			
		Number of gates=	1					No		✓	
	/ If Canal→	Length of main	800				/ if respondent select above "✓" Yes", How change of fee?	Increase	%		
		Width(m) for typical	1.20			Decrease	%				
		Height(m)=	2.70		a-6) What is	Gate operation					
	/ If Pond or lake→	Diameter of Pond(m)=				Gate maintenance					
		Depth(m)=				Canal Cleaning					
		Number of Pond =				Canal Rehabilitation					
8	Number of house hold in service area	110				Others					
9	Actual irrigation area (ha)	156			a-7) How often are the meeting held in a year?						
10	Original or planned irrigation area (ha)	180.0			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)		✓ is to establish a group.			
11	Original constructed year	Year's	2000s			The WG or WUAs is under establishment.					
		Exact year	2001			(Expected establishment year)					
		Rehabilitated year	2007			Not required to establish (Reason)					
12	Which type of the water source ?	Spring				Already expired (Reason)					
		River Water	✓			Others					
		Under Ground Water				Opinion or request by interviewee					
		Others					- Farmers need guidances and trainings to establish a water users group.				
							- River bed is 3m lower then paddy field.				
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			16	●Evaluation of Irrigation scheme					
		Weir (Wooden)				Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Free intake	✓			Size of area (10 pts, more than 100ha)		Total Points	80		
		Intake with Gates				Evaluation of degree on immediate treatment					
		Pond/Lake				* Evaluation criteria					
	Canal	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)							
	Others			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)							
	If respondent select above "✓ Canal", show the type of canal	Concrete	✓			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring).					
		Wet Masonry	✓			●Location of Irrigation Scheme					
		Earth/Soil	✓			 					
		Others									
		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									

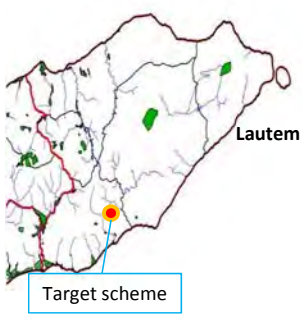

Remarks : describe supplemental and/or new information, if any

District : **Lautém**

Irrigation scheme :

MUALIU

6-a-6TR

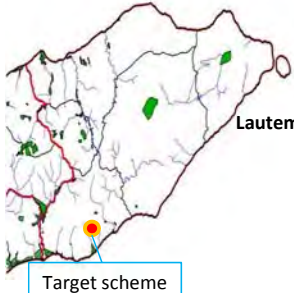

1	No.	6	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	21/1/2014			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	MUALIU				A few in 10 years		
4	Name of District	Lautém				Not functional of irrigation structure		
	Name of Sub-district	Iliomar				Climate change (decrease of river flow)	✓	
5	Name of Suco	ILIOMAR				Others	River bed is 5m	
	Name of Aldeia	WETAMATA						
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	✓		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 269584.27 Y= 9038260.86				(Contents of damage)	A few in 5 years	
	Grid reference in Irr. scheme except for above facility	X= 270333 Y= 9038229					A few in 10 years	
							Wash out the land	
							Damage to irrigation structure	
							Others	
							Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
							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	WUAs		
		Pond/Lake			a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-3) Name of representative of WG or WUAs			
	/ If Canal→	Length of main Width(m) for typical Height(m)=	2,000 2.20 1.00		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			/ 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		
8	Number of house hold in service area	16			by Rice kg/HH as member ship fee kg/ha as water fee			
9	Actual irrigation area (ha)	14			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	✓	
10	Original or planned irrigation area (ha)	10.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % for years		
11	Original constructed year	Before 1970			Decrease % for years			
	Exact year				a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
	Rehabilitated year				a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		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)	✓ is to establish a group.	
	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	✓			Not required to establish (Reason) Already expired (Reason) Others		
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	✓		16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group. - River bed is 5m lower than 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	✓ ✓ ✓ ✓ ✓ ✓ ✓		●Evaluation of Irrigation scheme			
		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	✓ ✓ ✓ ✓ ✓ ✓ ✓		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		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	✓ ✓ ✓ ✓ ✓ ✓ ✓		Size of area (10 pts, more than 100ha)		Total Points	20
		Problems on the other facilities	✓		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 : **Lautem**

Irrigation scheme :

IRAMASUL

6-a-9TR

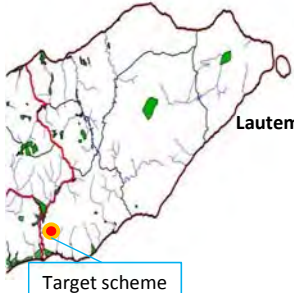

1	No.	9	14									
2	Date of Survey	21/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓				
3	Name of Irrigation scheme	IRAMASUL					(Cause or Reason)	A few in 5 years		✓		
4	Name of District	Lautem						A few in 10 years				
	Name of Sub-district	Iliomar						Not functional of irrigation structure		✓		
5	Name of Suco	ILIOMAR I						Climate change (decrease of river flow)		✓		
	Name of Aldeia	ILIOMAR						Others				
6	Observing location of the Grid	Free Intake	✓				Flood Damage to irrigation scheme (Frequency)	Every year		✓		
		Intake with gates							A few in 5 years		✓	
		Pond/Lake/Spring							A few in 10 years			
		Weir							(Contents of damage)	Wash out the land		✓
		Others								Damage to irrigation structure		✓
		Others								Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 264573.93 Y= 9033786.85					Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
	Grid reference in Irr. scheme except for above facility	X= 264799 Y= 9033244						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)=				by Rice	US\$/ha as water fee					
		Number of span =			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/1span (m)=			No			✓				
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%					
	/ If Canal→	Length of main	500			Decrease	%					
		Width(m) for typical	2.50		a-6) What is	Gate operation						
		Height(m)=	0.80			Gate maintenance						
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Cleaning						
		Depth(m)=				Canal Rehabilitation						
		Number of Pond =			a-7) How often are the meeting held in a year?	Others						
8	Number of house hold in service area	30			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)		✓				
9	Actual irrigation area (ha)	Include "B"				The WG or WUAs is under establishment. (Expected establishment year)		is to establish a group.				
10	Original or planned irrigation area (ha)	140.0				Not required to establish (Reason)						
11	Original constructed year	Before 1970				Already expired (Reason)						
		Exact year				Others						
		Rehabilitated year	2002		16	Opinion or request by interviewee		- Farmers need guidances and trainings to establish a water users group.				
12	Which type of the water source ?	Spring			● Evaluation of Irrigation scheme							
		River Water	✓		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)				
		Under Ground Water										
		Others										
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			Size of area (10 pts, more than 100ha)		Total Points	40				
		Weir (Wooden)										
		Free intake	✓		Evaluation of degree on immediate treatment							
		Intake with Gates			* Evaluation criteria							
		Pond/Lake			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)							
		Canal			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)							
	Others			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)								
	If respondent select above "✓ Canal", show the type of canal	Concrete			● Location of Irrigation Scheme							
		Wet Masonry			 							
		Earth/Soil	✓									
		Others										
		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											
Remarks : describe supplemental and/or new information, if any												

District : **Lautem**

Irrigation scheme :

VENOSI

6-a-10TR

1	No.	10	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	22/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	VENOSI					A few in 10 years	
4	Name of District	Lautem					Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	ILIOMAR I					Others	
	Name of Aldeia	ILIOMAR						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 251234 Y= 9033378					Others
	Grid reference in Irr. scheme except for above facility	X= 251320 Y= 9033092				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		River bed is 3m
		Intake	✓					
		Canal	✓					
		Pond/Lake						
		Others						
	/ If Weir→	Length(m)=						
		Height(m)=						
		Width/1span (m)=						
		Number of span =						
		Number of gates=						
	/ If Intake→	Length(m)=	50.00					
		Height(m)=	4.00					
		Number of span =	1					
		Width/1span (m)=	4.00					
		Number of gates=	1					
	/ If Canal→	Length of main	500					
		Width(m) for typical	1.20					
		Height(m)=	2.70					
	/ 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 5						
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		●Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	100
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal		✓	* Evaluation criteria			
		Broken		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)		✓	●Location of Irrigation Scheme			
		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							

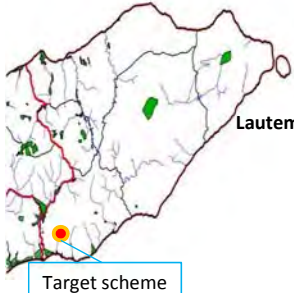

Remarks : describe supplemental and/or new information, if any

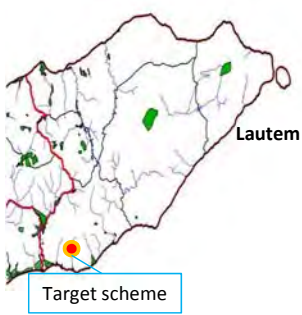

District : **Lautem**

Irrigation scheme :

MAUMA'A

6-a-11TR

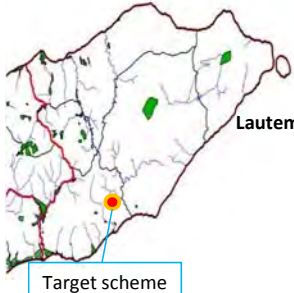

1	No.	11	14		
2	Date of Survey	22/1/2014			
3	Name of Irrigation scheme	MAUMA'A			
4	Name of District	Lautem			
	Name of Sub-district	Iliomar			
5	Name of Suco	Iliomar			
	Name of Aldeia	OSOIRA			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 254562.92 Y= 9033020.02			
	Grid reference in Irr. scheme except for above facility	X= 254818 Y= 9032684			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a) In case of YES	
	/ If Canal →	Length of main 900 Width(m) for typical 1.00 Height(m)= 0.40		a-1) What kind of the WG or WUAs ?	
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =		WUAs Traditional WG Others	
8	Number of house hold in service area	14		a-2) How many number of WG or WUAs in the irrigation scheme ?	
9	Actual irrigation area (ha)	17		a-3) Name of representative of WG or WUAs	
10	Original or planned irrigation area (ha)	10.0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		by Cash US\$/HH as member ship fee US\$/ha as water fee	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		by Rice kg/HH as member ship fee kg/ha as water fee	
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 <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input checked="" type="checkbox"/> 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		16 Opinion or request by interviewee	
				- Farmers need guidances and trainings to establish a water users group.	
				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) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting 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?	
				The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				● 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	
					
					
				Target scheme	
Remarks : describe supplemental and/or new information, if any					

1	No.	12	14																						
2	Date of Survey	22/1/2014																							
3	Name of Irrigation scheme	TOPOLOBE																							
4	Name of District	Lautem																							
	Name of Sub-district	Iliomar																							
5	Name of Suco	ILIOMAR I																							
	Name of Aldeia	OSOIRA																							
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring <input checked="" type="checkbox"/> Weir Others		Is there any major problems in the scheme ?																					
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 258954 Y= 9032852																							
	Grid reference in Irr. scheme except for above facility	X= 259007 Y= 9031710																							
7	What kind of structure?	Weir Intake Canal Pond/Lake <input checked="" type="checkbox"/> Others		15																					
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?																					
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																					
	/ If Canal→	Length of main Width(m) for typical Height(m)=		a) In case of YES																					
	/ If Pond or lake→	Diameter of Pond(m)= Depth(m)= Number of Pond =		a-1) What kind of the WG or WUAs ?																					
8	Number of house hold in service area	30		WUAs Traditional WG Others																					
9	Actual irrigation area (ha)	15		a-2) How many number of WG or WUAs in the irrigation scheme ?																					
10	Original or planned irrigation area (ha)	15.0		a-3) Name of representative of WG or WUAs																					
11	Original constructed year	Year's Exact year Rehabilitated year		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?																					
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																					
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		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																					
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?																					
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 <input checked="" type="checkbox"/> 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		a-6) What is Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others																					
				a-7) How often are the meeting held in a year? 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? Increase % for years Decrease % for years																					
				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																					
				Opinion or request by interviewee - Farmers are rehabilitating the scheme. - Farmers need guidances and trainings to establish a water users group.																					
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">●</td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td style="text-align: center;">20</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td style="text-align: center;">C</td> </tr> <tr> <td colspan="4">* 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).</td> </tr> </table> <p>● Location of Irrigation Scheme</p>  		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).			
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).																									
Remarks : describe supplemental and/or new information, if any																									

District : **Lautem**

Irrigation scheme : **FAHEBERE**

6-a-13TR

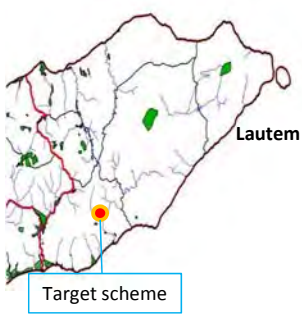

1	No.	13	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	21/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	FAHEBERE					A few in 10 years	
4	Name of District	Lautem					Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	ILIOMAR I					Others	
	Name of Aldeia	LIHINA						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 269571.84 Y= 9038271.53					Others
	Grid reference in Irr. scheme except for above facility	X= 270485 Y= 9038086				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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	2.20					
		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	37						
9	Actual irrigation area (ha)	include*6						
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				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)	is to establish a group.
		Under Ground Water					Not required to establish (Reason)	
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)				Already expired (Reason)		
		Weir (Wooden)				Others		
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
	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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	80	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Evaluation of degree on immediate treatment			A
		others			* Evaluation criteria			
		Problems on Canal		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Broken		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot operate the gate			●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

District : **Lautem**

Irrigation scheme :

APAT

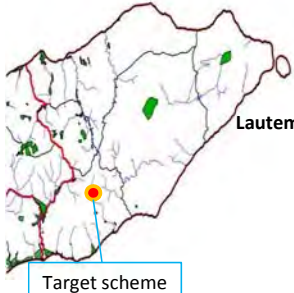

6-a-14TR

1	No.	14	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	22/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	APAT				A few in 10 years	
4	Name of District	Lautem				Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar				Climate change (decrease of river flow)	✓
5	Name of Suco	FUAT				Others	
	Name of Aldeia	RUMUTAU					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years A few in 10 years
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 267515 Y= 9038904				(Contents of damage)	Wash out the land ✓ Damage to irrigation structure ✓ Others
	Grid reference in Irr. scheme except for above facility	X= 267666 Y= 9038617				Shortage of the workers (when plow, transpland, harvest ect) (Reason)	
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)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?	Others	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-3) Name of representative of WG or WUAs		1
	/ If Canal →	Length of main 280 Width(m) for typical 2.50 Height(m)= 0.80			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			/ 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	
8	Number of house hold in service area	20			by Rice kg/HH as member ship fee kg/ha as water fee		
9	Actual irrigation area (ha)	12			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	✓
10	Original or planned irrigation area (ha)	40.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % for years Decrease % for years	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-7) How often are the meeting held in a year?		1
	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			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	
	If respondent select above "✓" Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ 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 : **Lautem**

Irrigation scheme : **NUDEDER**

6-a-15TR

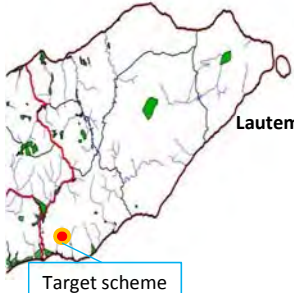

1	No.	15	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	22/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	NUDEDER					A few in 10 years	
4	Name of District	Lautem					Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	FUAT					Others	
	Name of Aldeia	WATA-OMAR						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 264565 Y= 9039961					Others
	Grid reference in Irr. scheme except for above facility	X= 265425 Y= 9040156				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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	30					
		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)	21						
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	✓					
	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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)		Size of area (10 pts, more than 100ha)	-	Total Points	50	
		Obstruction of sand/stone (sedimentation)						
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others						
		Problems on Canal		Evaluation of degree on immediate treatment				
		Broken		* Evaluation criteria				
		Not functional by deterioration		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Obstruction of sand/Stone (sedimentation)		●Location of Irrigation Scheme				
		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		Target scheme					
	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							

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

District : **Lautém**

Irrigation scheme : **FENNUR(MAMNUR)**

6-a-16TR

1	No.	16	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	22/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	FENNUR(MAMNUR)					A few in 10 years	
4	Name of District	Lautém					Not functional of irrigation structure	
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	TIRILOLO					Others	
	Name of Aldeia	EDEVATA						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 256098 Y= 9032574					Others
	Grid reference in Irr. scheme except for above facility	X= 255922 Y= 9032200				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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	800					
		Width(m) for typical	1.43					
		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)	18						
10	Original or planned irrigation area (ha)	10.0						
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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points	50
		Obstruction of sand/stone (sedimentation)			Evaluation of degree on immediate treatment			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			* Evaluation criteria			
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Broken		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Not functional by deterioration		✓	●Location of Irrigation Scheme			
		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							

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

District : **Lautém**

Irrigation scheme :

ROFO

6-a-17TR

1	No.	17	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	9/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	ROFO					A few in 10 years	
4	Name of District	Lautém					Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	AILEBERE					Others	
	Name of Aldeia	LALUMATU						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 258294.72 Y= 9034520.84					Others
	Grid reference in Irr. scheme except for above facility	X= 258360 Y= 9034226				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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)=	2,000 1.10 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)	4						
10	Original or planned irrigation area (ha)	14.0						
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970					
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	✓					
	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							
Remarks : describe supplemental and/or new information, if any								

15			
Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
a) In case of YES		No	
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
		by Rice	US\$/ha as water fee
			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	%
		Decrease	%
			for years
			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) is to establish a group.	
		The WG or WUAs is under establishment. (Expected establishment year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	

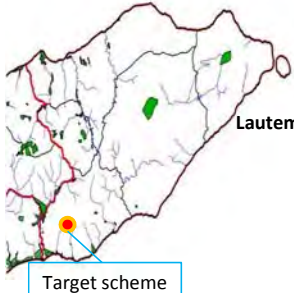

16 Opinion or request by interviewee

- No agricultural activities
- Scheme has been abandoned for 5 years.
- Farmers need technology of farming, and guidances and trainings to establish a water users group.

17 **●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)			

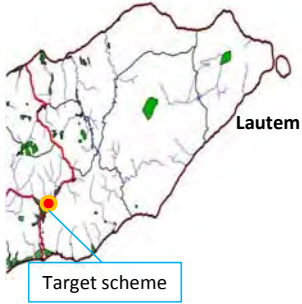

18 **●Location of Irrigation Scheme**

District : **Lautém**

Irrigation scheme : **MODO-MAU**

6-a-18TR

1	No.	18	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	22/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	MODO-MAU					A few in 10 years	
4	Name of District	Lautém					Not functional of irrigation structure	✓
	Name of Sub-district	Iliomar					Climate change (decrease of river flow)	✓
5	Name of Suco	CAINLEU					Others	
	Name of Aldeia	LARIMI						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 250922 Y= 9038802					Others
	Grid reference in Irr. scheme except for above facility	X= 252170 Y= 9039404				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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	700					
		Width(m) for typical	2.30					
		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	40						
9	Actual irrigation area (ha)	34						
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	✓			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)	✓ is to establish a group.
			River Water				The WG or WUAs is under establishment.	
		Under Ground Water				(Expected establishment year)		
		Others				Not required to establish (Reason)		
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)				Already expired (Reason)		
		Weir (Wooden)				Others		
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal						
	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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)		Total Points		30
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others		Evaluation of degree on immediate treatment				
		Problems on Canal		* Evaluation criteria				
		Broken	✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Not functional by deterioration	✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate	✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Cannot flow the water for some reasons (Details)		●Location of Irrigation Scheme				
		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							

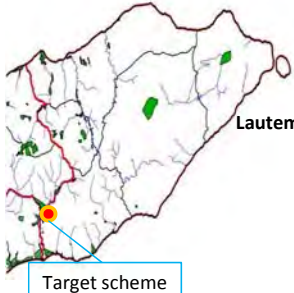

Remarks : describe supplemental and/or new information, if any

District : **Lautém**

Irrigation scheme :

IRAFOK

6-a-19TR

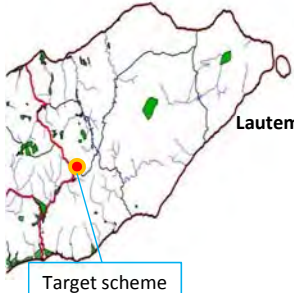

1	No.	19	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	22/1/2014			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	IRAFOK				A few in 10 years		
4	Name of District	Lautém				Not functional of irrigation structure		
	Name of Sub-district	Iliomar				Climate change (decrease of river flow)	✓	
5	Name of Suco	CAINLEU				Others		
	Name of Aldeia	MALUHIRA						
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 250679					Others	
		Y= 9037358					Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
	Grid reference in Irr. scheme except for above facility	X= 251037					Others	
		Y= 9036412						
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	WUAs	
		Pond/Lake				a-1) What kind of the WG or WUAs ?	Traditional WG	
		Others					Others	
	/ If Weir→	Length(m)=	20.0			a-2) How many number of WG or WUAs in the irrigation scheme ?		
		Height(m)=	3.00			a-3) Name of representative of WG or WUAs		
		Width/1span (m)=	8.00			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		Number of span =	1				No	✓
		Number of gates=	0			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee
	/ If Intake→	Length(m)=					by Rice	US\$/ha as water fee
		Height(m)=				a-5) if respondent select above "✓" Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		kg/HH as member ship fee
		Number of span =					Yes	kg/ha as water fee
		Width/1span (m)=					No	✓
		Number of gates=				/ if respondent select above "✓" Yes", How change of fee?	Increase	%
	/ If Canal→	Length of main	900				Decrease	%
		Width(m) for typical	2.00			a-6) What is	Gate operation	
		Height(m)=	0.60				Gate maintenance	
	/ If Pond or lake→	Diameter of Pond(m)=					Canal Cleaning	
		Depth(m)=					Canal Rehabilitation	
		Number of Pond =					Others	
8	Number of house hold in service area	15				a-7) How often are the meeting held in a year?		
9	Actual irrigation area (ha)	6				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)	✓
10	Original or planned irrigation area (ha)	20.0					The WG or WUAs is under establishment. (Expected establishment year)	is to establish a group.
11	Original constructed year	Before 1970					Not required to establish (Reason)	
		Exact year					Already expired (Reason)	
		Rehabilitated year	2007				Others	
12	Which type of the water source ?	Spring	✓			16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.
		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				●Evaluation of Irrigation scheme		
		Broken				Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)
		Not functional by deterioration						Flood effect(10pts)
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)				Size of area (10 pts, more than 100ha)	Total Points	30
		Obstruction of sand/stone (sedimentation)						
		High maintenance cost of structure (Annual Cost US\$)				Evaluation of degree on immediate treatment		
		(Contents of maintenance with high cost)				* Evaluation criteria		
		others				A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
		Problems on Canal	✓			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)		
		Broken	✓			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)		
		Not functional by deterioration	✓			●Location of Irrigation Scheme		
		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						
Remarks : describe supplemental and/or new information, if any								

District : **Lautém**

Irrigation scheme :

SOROKAI


6-a-20TR

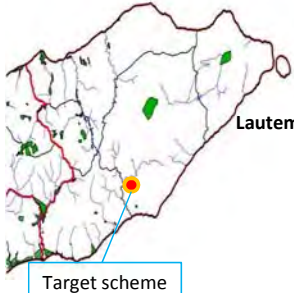

1	No.	20	14		
2	Date of Survey	24/1/2014			
3	Name of Irrigation scheme	SOROKAI			
4	Name of District	Lautém			
	Name of Sub-district	Iliomar			
5	Name of Suco	CANLEU			
	Name of Aldeia	LOROCAIL			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 260015 Y= 9046087			
	Grid reference in Irr. scheme except for above facility	X= 259501 Y= 9046266			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Canal →	Length of main Width(m) for typical Height(m)=		a) In case of YES	
	/ If Pond or lake →	Diameter of Pond(m) = 2.5 Depth(m) = 0.80 Number of Pond = 1		a-1) What kind of the WG or WUAs ?	
8	Number of house hold in service area	15		WUAs Traditional WG Others	
9	Actual irrigation area (ha)	16		a-2) How many number of WG or WUAs in the irrigation scheme ?	
10	Original or planned irrigation area (ha)	45.0		a-3) Name of representative of WG or WUAs	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	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 "Yes", which way do farmers pay the above fee?	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				/ 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?	
				The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				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.	
				- Farmers need guidances and trainings 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		16	
		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		Opinion or request by interviewee	
		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	
				* 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	
				 	
				Target scheme	
Remarks : describe supplemental and/or new information, if any					

District : 0

Irrigation scheme : Fanufuru

6-a-21TR


1	No.	21	14		Shortage of Irrigation Water (Frequency)	Every year A few in 5 years A few in 10 years		
2	Date of Survey				(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others		
3	Name of Irrigation scheme	Fanufuru			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years		
4	Name of District				(Contents of damage)	Wash out the land Damage to irrigation structure Others		
5	Name of Sub-district				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
6	Name of Suco				Others			
6	Name of Aldeia				Is there any major problems in the scheme ?			
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others						
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= Y=						
6	Grid reference in Irr. scheme except for above facility	X= Y=						
7	What kind of structure?	Weir Intake Canal Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others		
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?			
7	/ If Canal →	Length of main Width(m) for typical Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs			
8	Number of house hold in service area				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		
9	Actual irrigation area (ha)	none			/ 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		
10	Original or planned irrigation area (ha)				by Rice kg/HH as member ship fee kg/ha as water fee			
11	Original constructed year	Year's Exact year Rehabilitated year			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 % % for years		
12	Which type of the water source ?	Spring River Water Under Ground Water Others			/ if respondent select above "Yes", How change of fee?	Increase Decrease % % for years		
12	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others			a-7) How often are the meeting held in a year?			
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			16	Opinion or request by interviewee	* Scheme does not exist (show MAF letter)	
13					● 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.	22	14					
2	Date of Survey	9/1/2014		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			
3	Name of Irrigation scheme	IRALAFAI						
4	Name of District	Lautém						
4	Name of Sub-district	Lospalos						
5	Name of Suco	LORE I						
5	Name of Aldeia	OTHCOTCHAO						
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes No	Yes No	✓	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 276120 Y= 9041698						
	Grid reference in Irr. scheme except for above facility	X= 276153 Y= 9041248						
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 0.80 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	52		15	a) In case of YES	WUAs Traditional WG Others		
9	Actual irrigation area (ha)	16			a-1) What kind of the WG or WUAs ?			
10	Original or planned irrigation area (ha)	60.0			a-2) How many number of WG or WUAs in the irrigation scheme ?			
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year			a-3) Name of representative of WG or WUAs			
12	Which type of the water source ?	Spring River Water Under Ground Water Others			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
	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 "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		
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others			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 % % for years % 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	- No agricultural activities. - Farmers has been abandoned the paddy field and it becomes forest. - Farmers want to move to another scheme with more agricultural potential.		
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	✓ ✓ ✓ ✓ ✓ ✓ ✓		●Evaluation of Irrigation scheme			
		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	✓ ✓ ✓ ✓ ✓ ✓ ✓		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		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	✓ ✓ ✓ ✓ ✓ ✓ ✓		Size of area (10 pts, more than 100ha)		Total Points	60
		Problems on the other facilities	✓		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 : Caidabada

6-a-23TR

1	No.	23	14			
2	Date of Survey			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	
3	Name of Irrigation scheme	Caidabada				
4	Name of District					
5	Name of Sub-district					
6	Name of Suco					
6	Name of Aldeia					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir 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, transplant, harvest ect) (Reason) 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			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
9	Actual irrigation area (ha)	none			a) In case of YES	
10	Original or planned irrigation area (ha)				a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others
11	Original constructed year	Year's Exact year Rehabilitated year			a-2) How many number of WG or WUAs in the irrigation scheme ?	
12	Which type of the water source ?	Spring River Water Under Ground Water Others			a-3) Name of representative of WG or WUAs	
	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			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No
	If respondent select above "☑ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others			/ 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 % for years Decrease % for years
					/ 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	"A part of 6-a-1TC CAIDABADA (confirmed through field survey)"
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						

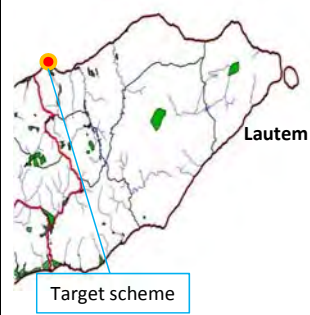
District : **Lautém**

Irrigation scheme :

BATAKIA

6-a-25TR

1	No.	25	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	18/12/2013				(Cause or Reason)	A few in 5 years A few in 10 years	
3	Name of Irrigation scheme	BATAKIA					Not functional of irrigation structure	✓
4	Name of District	Lautém					Climate change (decrease of river flow)	
5	Name of Sub-district	Lautém					Others	
6	Name of Suco	ILILAI						
6	Name of Aldeia	SAMUALARI						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
6		Intake with gates				(Contents of damage)	A few in 5 years A few in 10 years	
6		Pond/Lake/Spring					Wash out the land	✓
6		Weir					Damage to irrigation structure	✓
6		Others					Others	
6		Grid reference at Intake/Pond/Lake/Spring/pump	X= 250419 Y= 9069018				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
6	Grid reference in Irr. scheme except for above facility	X= 250595 Y= 9069760				Others		
7	What kind of structure?	Weir						
7		Intake				Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
7		Canal	✓				No	✓
7		Pond/Lake				a) In case of YES		
7		Others				a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	
7	/ If Weir→	Length(m)=				a-2) How many number of WG or WUAs in the irrigation scheme ?		
7		Height(m)=				a-3) Name of representative of WG or WUAs		
7		Width/1span (m)=				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
7		Number of span =				/ 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	
7		Number of gates=				by Rice kg/HH as member ship fee kg/ha as water fee		
7	/ If Intake→	Length(m)=				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	✓
7		Height(m)=				/ if respondent select above "✓" Yes", How change of fee?	Increase % for years	
7		Number of span =					Decrease % for years	
7		Width/1span (m)=				a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
7		Number of gates=				a-7) How often are the meeting held in a year?		
7	/ If Canal→	Length of main	1,300			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)	✓ is to establish a group.
7		Width(m) for typical	3.50				Not required to establish (Reason)	
7		Height(m)=	1.50				Already expired (Reason)	
7	/ If Pond or lake→	Diameter of Pond(m) =					Others	
7		Depth(m)=				Opinion or request by interviewee		
7		Number of Pond =					- Farmers need guidances and trainings to establish a water users group.	
8	Number of house hold in service area	195						
9	Actual irrigation area (ha)	Include* 25						
10	Original or planned irrigation area (ha)	150.0						
11	Original constructed year	Year's Before 1970						
11		Exact year						
11		Rehabilitated year						
12	Which type of the water source ?	Spring						
12		River Water	✓					
12		Under Ground Water						
12		Others						
12	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)						
12		Weir (Wooden)						
12		Free intake	✓					
12		Intake with Gates						
12		Pond/Lake						
12		Canal	✓					
12	If respondent select above "✓ Canal", show the type of canal	Concrete						
12		Wet Masonry						
12		Earth/Soil	✓					
12		Others						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	● Evaluation of Irrigation scheme			
13		Broken		✓				
13		Not functional by deterioration		✓				
13		Cannot operate the gate						
13		Cannot keep the water level for some reasons (Details)						
13		Obstruction of sand/stone (sedimentation)						
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13		others						
13		Problems on Canal		✓				
13		Broken		✓				
13		Not functional by deterioration		✓				
13		Cannot operate the gate						
13		Cannot flow the water for some reasons (Details)						
13		Obstruction of sand/Stone (sedimentation)		✓				
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13		Others						
13		Problems on Pond/Lake						
13		Broken						
13		Not functional by deterioration						
13		Cannot operate the outlet gate						
13	Cannot keep the water in pond for some reasons (Details)							
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13	Others							
13	Problems on the other facilities							
13								
Remarks : describe supplemental and/or new information, if any								

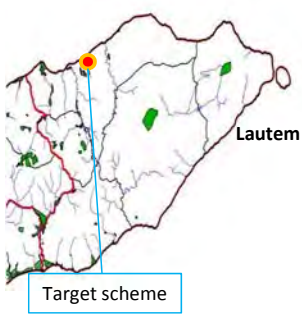



District : **Lautem**

Irrigation scheme :

HOCARA

6-a-26TR

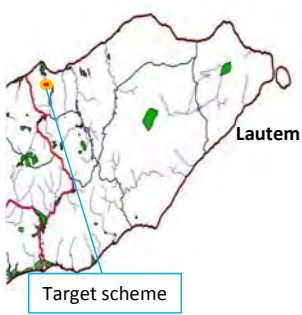

1	No.	26	14				
2	Date of Survey	20/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency) Every year A few in 5 years A few in 10 years (Cause or Reason) Not functional of irrigation structure Climate change (decrease of river flow) Others		
3	Name of Irrigation scheme	HOCARA					
4	Name of District	Lautem					
4	Name of Sub-district	Lautem					
5	Name of Suco	SERELAU					
5	Name of Aldeia	RA'ANU					
6	Observing location of the Grid	Free Intake					
		Intake with gates	✓				
		Pond/Lake/Spring					
		Weir					
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	263343.34				
		Y=	9067305.86				
Grid reference in Irr. scheme except for above facility	X=	263423					
	Y=	9068172					
7	What kind of structure?	Weir					
8	Number of house hold in service area	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	0.55					
	Height(m)=	0.90					
/ If Pond or lake→	Diameter of Pond(m) =						
	Depth(m)=						
	Number of Pond =						
9	Actual irrigation area (ha)	17					
10	Original or planned irrigation area (ha)	100.0					
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 ?						
13	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							
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? 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			✓ is to establish a group.				
16 Opinion or request by interviewee - At the meantime of interview, farmers are rehabilitating the scheme and no agricultural activities - Farmers need guidances and trainings to establish a water users group.							
●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 * 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							

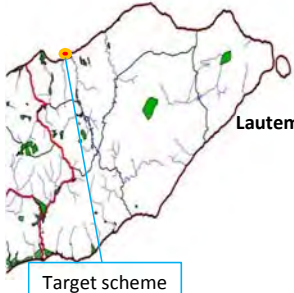

District : **Lautem**

Irrigation scheme : **DORIA'ARA**

6-a-27TR

1	No.	27	14				
2	Date of Survey	21/1/2014		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		
3	Name of Irrigation scheme	DORIA'ARA					
4	Name of District	Lautem					
4	Name of Sub-district	Lautem					
5	Name of Suco	SERELAU					
5	Name of Aldeia	RA'ANU					
6	Observing location of the Grid	Free Intake					
		Intake with gates					
		Pond/Lake/Spring	✓				
		Weir					
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	263363.16				
		Y=	9067451.87				
Grid reference in Irr. scheme except for above facility	X=	263134					
	Y=	9068710					
7	What kind of structure?	Weir					
8	Number of house hold in service area	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	0.90					
	Height(m)=	0.55					
/ If Pond or lake→	Diameter of Pond(m) =						
	Depth(m)=						
	Number of Pond =						
9	Actual irrigation area (ha)	Include 26'					
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	✓				
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 ?						
13	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							
<p>14</p> <p>15</p> <p>16</p> <p>Opinion or request by interviewee</p> <p>- Farmers need guidances and trainings to establish a water users group.</p>							
<p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>							

1	No.	31	14					
2	Date of Survey	13/1/2014						
3	Name of Irrigation scheme	LAU-IMI						
4	Name of District	Lautem						
	Name of Sub-district	Lautem						
5	Name of Suco	EUQUISI						
	Name of Aldeia	EUQUISI						
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= 252904.58 Y= 9064210.29						
	Grid reference in Irr. scheme except for above facility	X= 253074 Y= 9066270						
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)= 250.00 Height(m)= 1.80 Number of span = 1 Width/1span (m)= 2.00 Number of gates= 1						
	/ If Canal →	Length of main 400 Width(m) for typical 1.05 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	60						
9	Actual irrigation area (ha)	107						
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						
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						
	Opinion or request by interviewee							
	Is there any major problems in the scheme ?							
	Is there any Water Group (WG) or Water User Associations (WUAs) ?							
	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 ✓ 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						
	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.						
	●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.	32	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years	✓			
3	Name of Irrigation scheme	RAIMOKO				A few in 10 years	✓			
4	Name of District	Lautem				Not functional of irrigation structure	✓			
4	Name of Sub-district	Lautem				Climate change (decrease of river flow)	✓			
5	Name of Suco	DAUDERE				Others	✓			
5	Name of Aldeia	SAQUELI								
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓			
		Intake with gates				(Contents of damage)	A few in 5 years	✓		
		Pond/Lake/Spring					A few in 10 years	✓		
		Weir					Wash out the land	✓		
		Others					Damage to irrigation structure	✓		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 259659 Y= 9067712				Others			
	Grid reference in Irr. scheme except for above facility	X= 257982 Y= 9069141			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
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)=				by Rice	US\$/ha as water fee			
		Number of span =			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/1span (m)=			No	✓				
		Number of gates=			/ if respondent select above "✓ Yes", How change of fee?	Increase	%			
	/ If Canal→	Length of main	2,800			Decrease	%			
		Width(m) for typical	2,10		a-6) What is	for years				
		Height(m)=	2,45		Gate operation	for years				
	/ If Pond or lake→	Diameter of Pond(m) =			Gate maintenance					
		Depth(m)=			Canal Cleaning					
		Number of Pond =			Canal Rehabilitation					
8	Number of house hold in service area	60			Others					
9	Actual irrigation area (ha)	32			a-7) How often are the meeting held in a year?					
10	Original or planned irrigation area (ha)	25.0								
11	Original constructed year	Before 1970			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)	✓ is to establish a group.			
		Exact year				The WG or WUAs is under establishment. (Expected establishment year)				
		Rehabilitated year				Not required to establish (Reason)				
12	Which type of the water source ?	Spring				Already expired (Reason)				
		River Water	✓			Others				
		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	✓	16	Opinion or request by interviewee	-Scheme wa washed away 3 year ago. - Farmers need guidances and trainings to establish a water users group.				
		Broken				●Evaluation of Irrigation scheme	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	
		Not functional by deterioration								Flood effect(10pts)
		Cannot operate the gate								
		Cannot keep the water level for some reasons (Details)								
		Obstruction of sand/stone (sedimentation)	✓					Size of area (10 pts, more than 100ha)	Total Points	50
		High maintenance cost of structure (Annual Cost US\$)								C
		(Contents of maintenance with high cost)								
		others								
		Problems on Canal	✓					* 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).		
		Broken						●Location of Irrigation Scheme		
		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									

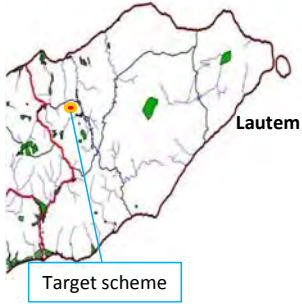

Remarks : describe supplemental and/or new information, if any

District : **Lautem**

Irrigation scheme :

MATARARA

6-a-34TR

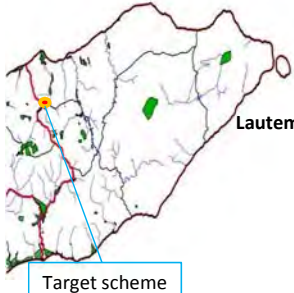

1	No.	34	14			
2	Date of Survey	19/12/2013				
3	Name of Irrigation scheme	MATARARA				
4	Name of District	Lautem				
	Name of Sub-district	Luro				
5	Name of Suco	AFABUBU				
	Name of Aldeia	ODOFURU				
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>			
		Intake with gates				
		Pond/Lake/Spring				
		Weir				
		Others				
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 259587.76 Y= 9058343.06			
	Grid reference in Irr. scheme except for above facility	X= 259805 Y= 9058412				
7	What kind of structure?	Weir				
		Intake				
		Canal	<input checked="" type="checkbox"/>			
		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	1.50			
		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	20				
9	Actual irrigation area (ha)	13				
10	Original or planned irrigation area (ha)	10.0				
11	Original constructed year	Year's Before 1970				
		Exact year				
		Rehabilitated year				
12	Which type of the water source ?	Spring				
		River Water	<input checked="" type="checkbox"/>			
		Under Ground Water				
		Others				
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)	<input checked="" type="checkbox"/>			
		Weir (Wooden)	<input checked="" type="checkbox"/>			
		Free intake				
		Intake with Gates				
		Pond/Lake				
		Canal	<input checked="" type="checkbox"/>			
		Others				
	If respondent select above "Canal", show the type of canal	Concrete	<input checked="" type="checkbox"/>			
		Wet Masonry				
		Earth/Soil	<input checked="" type="checkbox"/>			
		Others				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme		
			Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)
			Not functional by deterioration			Damage of structure(20pts)
			Cannot operate the gate			Flood effect(10pts)
			Cannot keep the water level for some reasons (Details)			
			Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)	Total Points
			High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			20
			others		Evaluation of degree on immediate treatment	
			Problems on Canal	<input checked="" type="checkbox"/>	* Evaluation criteria	
			Broken	<input checked="" type="checkbox"/>	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)	
			Not functional by deterioration	<input checked="" type="checkbox"/>	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)	
			Cannot operate the gate		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)	
			Cannot flow the water for some reasons (Details)		●Location of Irrigation Scheme	
			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				
Remarks : describe supplemental and/or new information, if any						

District : **Lautem**

Irrigation scheme :

AFANAMI

6-a-35TR

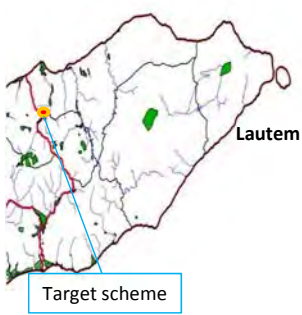

1	No.	35	14		
2	Date of Survey	29/1/2014			
3	Name of Irrigation scheme	AFANAMI			
4	Name of District	Lautem			
	Name of Sub-district	Luro			
5	Name of Suco	WAIROKE			
	Name of Aldeia	AFANAMI			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 251563.83 Y= 9059504.64			
	Grid reference in Irr. scheme except for above facility	X= 251401 Y= 9059708			
7	What kind of structure?	Weir Intake Canal <input checked="" type="checkbox"/> Pond/Lake Others		15	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Canal →	Length of main 500 Width(m) for typical 1.10 Height(m)= 0.70		a) In case of YES	
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-1) What kind of the WG or WUAs ?	
8	Number of house hold in service area	18		WUAs Traditional WG Others	
9	Actual irrigation area (ha)	21		a-2) How many number of WG or WUAs in the irrigation scheme ?	
10	Original or planned irrigation area (ha)	20.0		a-3) Name of representative of WG or WUAs	
11	Original constructed year	Before 1970		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
	Year's Exact year			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	Rehabilitated year			/ if respondent select above "Yes", which way do farmers pay the above fee?	
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water <input checked="" type="checkbox"/> Under Ground Water Others		by Cash US\$/HH as member ship fee US\$/ha as water fee	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) <input checked="" type="checkbox"/> Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		by Rice kg/HH as member ship fee kg/ha as water fee	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
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		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
		Problems on Canal Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input checked="" type="checkbox"/> Cannot flow the water for some reasons (Details) Obstruction of sand/Stone (sedimentation) <input checked="" type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) Others		Increase % for years Decrease % for years	
		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		a-6) What is	
		Problems on the other facilities		Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
Remarks : describe supplemental and/or new information, if any				a-7) How often are the meeting held in a year?	
				The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. <input type="checkbox"/> (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others	
			16	Opinion or request by interviewee	
				- Paddy field was destroyed by flood 10 years ago and abandoned for 10 years - Farmers need guidances and trainings to establish a water users group.	
			● Evaluation of Irrigation scheme Shortage of water / Obstruction of water pass(40pts) <input type="checkbox"/> Problem of intake and keeping water level(20pts) <input checked="" type="checkbox"/> Damage of structure(20pts) <input checked="" type="checkbox"/> Flood effect(10pts) <input type="checkbox"/> Size of area (10 pts, more than 100ha) <input type="checkbox"/> 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  		

District : **Lautem**

Irrigation scheme :

BUI-BUI

6-a-36TR

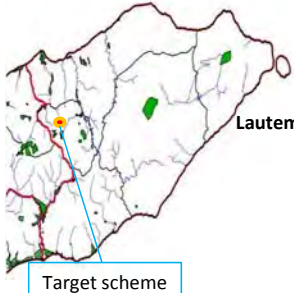

1	No.	36	14		
2	Date of Survey	29/1/2014			
3	Name of Irrigation scheme	BUI-BUI			
4	Name of District	Lautem			
	Name of Sub-district	Luro			
5	Name of Suco	WAIROKE			
	Name of Aldeia	SOBA			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 251553 Y= 9059453			
	Grid reference in Irr. scheme except for above facility	X= 251393 Y= 9059688			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a) In case of YES	
	/ If Canal →	Length of main 700 Width(m) for typical 1.10 Height(m)= 0.70		a-1) What kind of the WG or WUAs ?	
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =		WUAs Traditional WG Others	
8	Number of house hold in service area	61		a-2) How many number of WG or WUAs in the irrigation scheme ?	
9	Actual irrigation area (ha)	Include* 35		a-3) Name of representative of WG or WUAs	
10	Original or planned irrigation area (ha)	30.0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		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	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input checked="" type="checkbox"/> 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		/ if respondent select above "Yes", How change of fee?	
		Problems on Canal Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input checked="" type="checkbox"/> 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		Increase % for years Decrease % for years	
		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		a-6) What is	
		Problems on the other facilities		Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
Remarks : describe supplemental and/or new information, if any				a-7) How often are the meeting held in a year?	
				The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. <input type="checkbox"/> (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others	
				Opinion or request by interviewee	
				- Intake was destroyed by flood in 2008. - Farmers want to reactive the scheme. - Farmers need guidances and trainings to establish a water users group.	
				● 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 * 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   Target scheme	

District : **Lautem**

Irrigation scheme :

TUTU


6-a-37TR

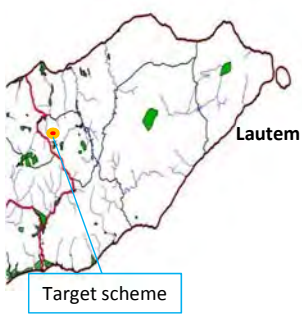

1	No.	37	14								
2	Date of Survey	21/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	TUTU					(Cause or Reason)	Not functional of irrigation structure		✓	
4	Name of District	Lautem						Climate change (decrease of river flow)		✓	
5	Name of Sub-district	Luro						Others			
6	Name of Suco	WAIROKE					Flood Damage to irrigation scheme (Frequency)	Every year		✓	
6	Name of Aldeia	LUTURU							A few in 5 years		✓
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others							A few in 10 years		
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 255752 Y= 9054426							(Contents of damage)	Wash out the land	✓
6	Grid reference in Irr. scheme except for above facility	X= 255377 Y= 9054998							Damage to irrigation structure	✓	
6	What kind of structure?	Weir							Others		
7	What kind of structure?	Intake Canal Pond/Lake Others	✓			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No		✓	
8	Number of house hold in service area	23					a) In case of YES	WUAs Traditional WG Others			
9	Actual irrigation area (ha)	75					a-1) What kind of the WG or WUAs ?				
10	Original or planned irrigation area (ha)	12.0					a-2) How many number of WG or WUAs in the irrigation scheme ?				
11	Original constructed year	Year's Exact year Rehabilitated year			a-3) Name of representative of WG or WUAs						
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓			
12	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 "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					
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			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 %		✓			
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		16	Opinion or request by interviewee	- Canal was destroyed by flood in 2008. - Paddy field is fully occupied by trees. - No agricultural activities - Farmers need guidances and trainings to establish a water users group.					
				● 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 * 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 : Motoira

6-a-38TR

1	No.	38	14			
2	Date of Survey			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
3	Name of Irrigation scheme	Motoira			(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others
4	Name of District				Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years
5	Name of Sub-district				(Contents of damage)	Wash out the land Damage to irrigation structure Others
6	Name of Suco				Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
6	Name of Aldeia				Others	
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	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-1) What kind of the WG or WUAs ?		
	/ If Canal →	Length of main Width(m) for typical Height(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-3) Name of representative of WG or WUAs		
8	Number of house hold in service area			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
9	Actual irrigation area (ha)	none		/ 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	
10	Original or planned irrigation area (ha)			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 % for years Decrease % for years	
11	Original constructed year	Year's Exact year Rehabilitated year		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
12	Which type of the water source ?	Spring River Water Under Ground Water Others		a-7) How often are the meeting held in a year?		
	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		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	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil 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						

1	No.	39	14		
2	Date of Survey	21/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	
3	Name of Irrigation scheme	LUTURU		Every year	
4	Name of District	Lautem		A few in 5 years	
	Name of Sub-district	Luro		A few in 10 years	
5	Name of Suco	WAIROKE		(Cause or Reason)	
	Name of Aldeia	LUTURU		Not functional of irrigation structure	
			Climate change (decrease of river flow)		
			Others		
6	Observing location of the Grid	Free Intake	Flood Damage to irrigation scheme (Frequency)	Every year	
		Intake with gates		A few in 5 years	
		Pond/Lake/Spring		A few in 10 years	
		Weir		✓	
		Others			
		Grid reference at Intake/Pond/Lake/Spring/pump		X= 254102.23 Y= 9054267.19	(Contents of damage)
		X= 254187 Y= 9054678	Wash out the land		
			Damage to irrigation structure		
			Others		
			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
			Others		
7	What kind of structure?	Weir	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	
		Intake	Yes		
		Canal	No		
		Pond/Lake	✓		
		Others			
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=	a) In case of YES		
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=	a-1) What kind of the WG or WUAs ?		
	/ If Canal→	Length of main 1,500 Width(m) for typical 1.10 Height(m)= 0.50	Traditional WG		
	/ If Pond or lake→	Diameter of Pond(m)= Depth(m)= Number of Pond =	Others		
8	Number of house hold in service area	51	a-2) How many number of WG or WUAs in the irrigation scheme ?		
9	Actual irrigation area (ha)	66	a-3) Name of representative of WG or WUAs		
10	Original or planned irrigation area (ha)	90.0	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		
11	Original constructed year	Before 1970	Yes		
		Exact year	No		
		Rehabilitated year	✓		
12	Which type of the water source ?	Spring	/ if respondent select above "Yes", which way do farmers pay the above fee?		
		River Water	by Cash		
		Under Ground Water	US\$/HH as member ship fee		
		Others	US\$/ha as water fee		
	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	by Rice		
		Canal	kg/HH as member ship fee		
		Others	kg/ha as water fee		
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		
		Earth/Soil	Yes		
		Others	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		
			- Farmers need guidances and trainings to establish a water users group.		
			- Farmers collected small budget by their own to built canal but amount is not enough.		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		● Evaluation of Irrigation scheme	
		Broken		Shortage of water / Obstruction of water pass(40pts)	
		Not functional by deterioration		Problem of intake and keeping water level(20pts)	
		Cannot operate the gate		Damage of structure(20pts)	
		Cannot keep the water level for some reasons (Details)		Flood effect(10pts)	
		Obstruction of sand/stone (sedimentation)		●	
		High maintenance cost of structure (Annual Cost US\$)		Size of area (10 pts, more than 100ha)	
		(Contents of maintenance with high cost)		Total Points	
		others		70	
		Problems on Canal		Evaluation of degree on immediate treatment	
		Broken		* Evaluation criteria	
		Not functional by deterioration		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)	
		Cannot operate the gate		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)	
		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)	
		Obstruction of sand/Stone (sedimentation)		● Location of Irrigation Scheme	
		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				


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

District : 0

Irrigation scheme :

Apat

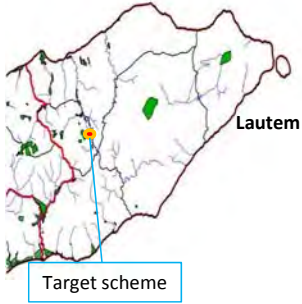

6-a-41TR

1	No.	41	14				
2	Date of Survey			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		
3	Name of Irrigation scheme	Apat					
4	Name of District						
5	Name of Sub-district						
6	Name of Suco						
6	Name of Aldeia						
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir 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, transplant, harvest ect) (Reason) 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			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
9	Actual irrigation area (ha)	none			a) In case of YES		
10	Original or planned irrigation area (ha)				a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	
11	Original constructed year	Year's Exact year Rehabilitated year			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 % for years	
					/ if respondent select above "Yes", How change of fee?	Increase % 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	Which type of the water source ?	Spring River Water Under Ground Water Others			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	
	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			16	Opinion or request by interviewee	"Scheme does not exist. (show MAF letter)"
	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 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							

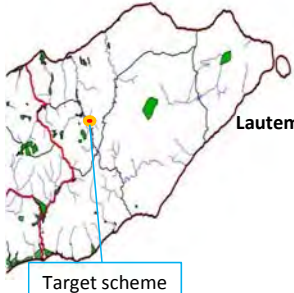

District : **Lautem**

Irrigation scheme : **IRALAFANU**

6-a-42TR

1	No.	42	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	30/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	IRALAFANU					A few in 10 years	
4	Name of District	Lautem					Not functional of irrigation structure	
	Name of Sub-district	Luro					Climate change (decrease of river flow)	✓
5	Name of Suco	LURO					Others	
	Name of Aldeia	HAILARINO						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 264364.63 Y= 9052382.68					Others
	Grid reference in Irr. scheme except for above facility	X= 264209 Y= 9052388				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		River bed is 5m
		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	140					
		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	17						
9	Actual irrigation area (ha)	7						
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						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme				
				Broken	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
				Not functional by deterioration				
				Cannot operate the gate				
				Cannot keep the water level for some reasons (Details)				
				Obstruction of sand/stone (sedimentation)	Size of area (10 pts, more than 100ha)			
				High maintenance cost of structure (Annual Cost US\$)			Total Points	30
				(Contents of maintenance with high cost)				
				others	Evaluation of degree on immediate treatment			
				Problems on Canal	* Evaluation criteria			
				Broken	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
				Not functional by deterioration	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
				Cannot operate the gate	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
				Cannot flow the water for some reasons (Details)	●Location of Irrigation Scheme			
				Obstruction of sand/Stone (sedimentation)				
			High maintenance cost of structure (Annual Cost US\$)					
			(Contents of maintenance with high cost)					
			Others					
			Problems on Pond/Lake	Target scheme				
			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					

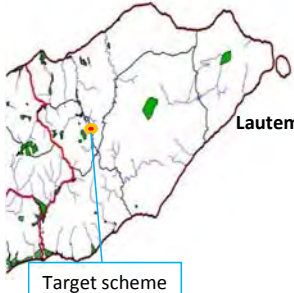

Remarks : describe supplemental and/or new information, if any

1	No.	43	14				
2	Date of Survey	27/1/2014		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		
3	Name of Irrigation scheme	TOBORO					
4	Name of District	Lautem					
5	Name of Sub-district	Luro					
6	Name of Suco	LURO					
6	Name of Aldeia	AMAHIRA					
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any Water Group (WG) or Water User Associations (WUAs) ?	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, transplant, harvest ect) (Reason) Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 264096.11 Y= 9056128.53					
	Grid reference in Irr. scheme except for above facility	X= 263868 Y= 9055711					
7	What kind of structure?	Weir <input checked="" type="checkbox"/> Intake Canal <input checked="" type="checkbox"/> 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 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		15	Yes		
9	Actual irrigation area (ha)	8		No			<input checked="" type="checkbox"/>
10	Original or planned irrigation area (ha)	10.0		a) In case of YES			
11	Original constructed year	Before 1970		a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others		
	Exact year			a-2) How many number of WG or WUAs in the irrigation scheme ?			
	Rehabilitated year			a-3) Name of representative of WG or WUAs			
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		<input checked="" type="checkbox"/>
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		/ 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		
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		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 %		<input checked="" type="checkbox"/>
				/ if respondent select above "Yes", How change of fee?	Increase Decrease %		
				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		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> 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		16	Opinion or request by interviewee	- Scheme has been abandoned since 1984.	
		Problems on Canal <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> 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 * 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 : **Lautém**

Irrigation scheme : **IPAREN**

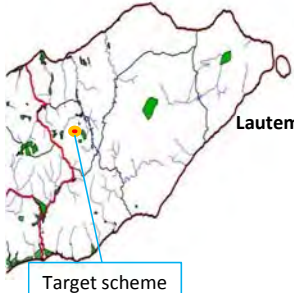

6-a-45TR

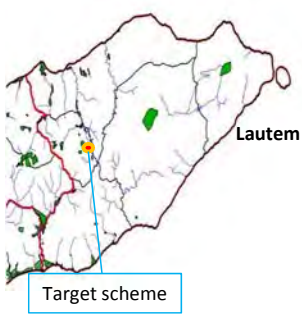

1	No.	45	14		
2	Date of Survey	30/1/2014			
3	Name of Irrigation scheme	IPAREN			
4	Name of District	Lautém			
	Name of Sub-district	Luro			
5	Name of Suco	LURO			
	Name of Aldeia	HAILARINO			
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 263987 Y= 9054703			
	Grid reference in Irr. scheme except for above facility	X= 264110 Y= 9054849			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes No	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a) In case of YES	
	/ If Canal →	Length of main Width(m) for typical Height(m)=	150 1.50 0.80	a-1) What kind of the WG or WUAs ?	
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =		WUAs Traditional WG Others	
8	Number of house hold in service area	15		a-2) How many number of WG or WUAs in the irrigation scheme ?	
9	Actual irrigation area (ha)	4		a-3) Name of representative of WG or WUAs	
10	Original or planned irrigation area (ha)	14.5		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970	Yes No	
12	Which type of the water source ?	Spring River Water Under Ground Water Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	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		by Cash US\$/HH as member ship fee US\$/ha as water fee	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		by Rice kg/HH as member ship fee kg/ha as water fee	
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		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
		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		Increase % for years Decrease % for years	
		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		a-6) What is	
		Problems on the other facilities		Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
Remarks : describe supplemental and/or new information, if any				a-7) How often are the meeting held in a year?	
				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	
				- Paddy field was destroyed by flood in 2011 and it causes the small cultivated area 5 ha. - Farmers need guidances and trainings to establish a water users group.	
				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.	
				● 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	
				* 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	
					
					

District : **Lautém**

Irrigation scheme : **IRAPERE(LURO)**

6-a-46TR

1	No.	46	14																						
2	Date of Survey	21/1/2014																							
3	Name of Irrigation scheme	IRAPERE(LURO)																							
4	Name of District	Lautém																							
	Name of Sub-district	Luro																							
5	Name of Suco	LURO																							
	Name of Aldeia	ABERE																							
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?																					
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 260314.11 Y= 9053735.13																							
	Grid reference in Irr. scheme except for above facility	X= 260765 Y= 9053640																							
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15																					
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?																					
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes No																					
	/ If Canal →	Length of main Width(m) for typical Height(m)=	100 1.00 0.65	a) In case of YES																					
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =		a-1) What kind of the WG or WUAs ?																					
8	Number of house hold in service area	71		WUAs Traditional WG Others																					
9	Actual irrigation area (ha)	35		a-2) How many number of WG or WUAs in the irrigation scheme ?																					
10	Original or planned irrigation area (ha)	80.0		a-3) Name of representative of WG or WUAs																					
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?																					
12	Which type of the water source ?	Spring River Water Under Ground Water Others		Yes No																					
	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 "Yes", which way do farmers pay the above fee?																					
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		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?																					
				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																					
				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.																					
				- Farmers need guidances and trainings 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		16																					
		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		Opinion or request by interviewee																					
		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		- Farmers need guidances and trainings to establish a water users group.																					
		Problems on the other facilities																							
<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>70</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>B</td> </tr> <tr> <td colspan="4">* 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).</td> </tr> </table> <p>● Location of Irrigation Scheme</p>  						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			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).			
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			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).																									
Remarks : describe supplemental and/or new information, if any																									

1	No.	47	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	30/1/2014			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	ADOBERE				A few in 10 years			
4	Name of District	Lautém				Not functional of irrigation structure			
	Name of Sub-district	Luro				Climate change (decrease of river flow)	✓		
5	Name of Suco	LURO				Others			
	Name of Aldeia	ALAHIRA							
6	Observing location of the Grid	Free Intake	✓		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates					(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring						A few in 10 years	
		Weir						Wash out the land	✓
		Others						Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 263925 Y= 9052794					Others	
	Grid reference in Irr. scheme except for above facility	X= 264024 Y= 9052964				Shortage of the workers (when plow, transplant, harvest ect) (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	WUAs			
		Others			a-1) What kind of the WG or WUAs ?	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)=				by Rice	US\$/ha as water fee		
		Number of span =					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	80			No	✓		
		Width(m) for typical	1.50		/ if respondent select above "✓ Yes", How change of fee?	Increase	%		
		Height(m)=	0.80			Decrease	%		
	/ If Pond or lake→	Diameter of Pond(m) =			a-6) What is	for years			
		Depth(m)=			Gate operation	for years			
		Number of Pond =			Gate maintenance				
8	Number of house hold in service area	60			Canal Cleaning				
9	Actual irrigation area (ha)	3			Canal Rehabilitation				
10	Original or planned irrigation area (ha)	35.0			Others				
11	Original constructed year	Before 1970			a-7) How often are the meeting held in a year?				
		Exact 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)	✓ is to establish a group.		
		Rehabilitated year				The WG or WUAs is under establishment. (Expected establishment year)			
12	Which type of the water source ?	Spring				Not required to establish (Reason)			
		River Water	✓			Already expired (Reason)			
		Under Ground Water				Others			
		Others							
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		
		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		● Evaluation of Irrigation scheme					
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	90		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Evaluation of degree on immediate treatment				
		others			* Evaluation criteria				
		Problems on Canal	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Broken	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Not functional by deterioration			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Cannot operate the gate			● Location of Irrigation Scheme				
		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			Target scheme				
		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								

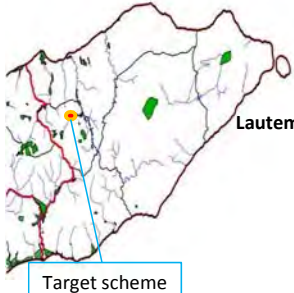

Remarks : describe supplemental and/or new information, if any

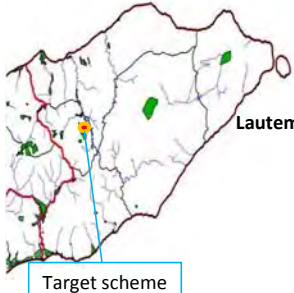

District : **Lautém**

Irrigation scheme :

MIATAU

6-a-48TR

1	No.	48	14								
2	Date of Survey	24/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year	✓				
3	Name of Irrigation scheme	MIATAU				(Cause or Reason)	Not functional of irrigation structure	✓			
4	Name of District	Lautém					Climate change (decrease of river flow)	✓			
5	Name of Sub-district	Luro					Others				
6	Name of Suco	LURO				Flood Damage to irrigation scheme (Frequency)	Every year	✓			
6	Name of Aldeia	AMAHIRA						A few in 5 years	✓		
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others			A few in 10 years						
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 260694 Y= 9056678			(Contents of damage)		Wash out the land	✓			
6	Grid reference in Irr. scheme except for above facility	X= 260563 Y= 9056774					Damage to irrigation structure	✓			
6							Others				
7	What kind of structure?	Weir		Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No		✓				
7		Intake						a) In case of YES			
7		Canal	✓					a-1) What kind of the WG or WUAs ?	WUAs		
7		Pond/Lake							Traditional WG		
7		Others							Others		
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=						a-2) How many number of WG or WUAs in the irrigation scheme ?			
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=						a-3) Name of representative of WG or WUAs			
7	/ If Canal→	Length of main Width(m) for typical Height(m)=	70 1.00 0.40					a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓
7	/ If Pond or lake→	Diameter of Pond(m)= Depth(m)= Number of Pond =						/ 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		
8	Number of house hold in service area	22						by Rice kg/HH as member ship fee kg/ha as water fee			
9	Actual irrigation area (ha)	10						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		✓
10	Original or planned irrigation area (ha)	20.0						/ if respondent select above "✓" Yes", How change of fee?	Increase Decrease	% %	for years for years
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970					a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
12	Which type of the water source ?	Spring ✓ River Water Under Ground Water Others						a-7) How often are the meeting held in a year?			
12	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						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		✓ is to establish a group.
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others		16	Opinion or request by interviewee		- Farmers need guidances and trainings 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		●Evaluation of Irrigation scheme							
13		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)				
13		Not functional by deterioration						Size of area (10 pts, more than 100ha)	Total Points	30	
13		Cannot operate the gate									Evaluation of degree on immediate treatment
13		Cannot keep the water level for some reasons (Details)		* 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).							
13		Obstruction of sand/stone (sedimentation)			●Location of Irrigation Scheme						
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)									
13		others									
13		Problems on Canal									
13		Broken	✓								
13		Not functional by deterioration	✓								
13		Cannot operate the gate									
13		Cannot flow the water for some reasons (Details)									
13		Obstruction of sand/Stone (sedimentation)									
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)									
13	Others										
13	Problems on Pond/Lake										
13	Broken										
13	Not functional by deterioration										
13	Cannot operate the outlet gate										
13	Cannot keep the water in pond for some reasons (Details)										
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)										
13	Others										
13	Problems on the other facilities										
Remarks : describe supplemental and/or new information, if any											

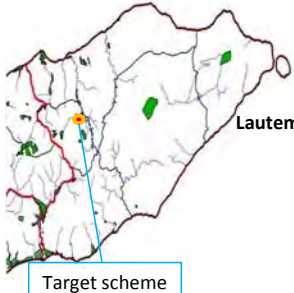

1	No.	49	14		
2	Date of Survey	24/1/2014			
3	Name of Irrigation scheme	AMAHIRA			
4	Name of District	Lautém			
	Name of Sub-district	Luro			
5	Name of Suco	LURO			
	Name of Aldeia	AMAHIRA			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 261859 Y= 9054258			
	Grid reference in Irr. scheme except for above facility	X= 261886 Y= 9054774			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a) In case of YES	
	/ If Canal →	Length of main 800 Width(m) for typical 1.10 Height(m)= 0.50		a-1) What kind of the WG or WUAs ?	
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =		WUAs Traditional WG Others	
8	Number of house hold in service area	35		a-2) How many number of WG or WUAs in the irrigation scheme ?	
9	Actual irrigation area (ha)	141		a-3) Name of representative of WG or WUAs	
10	Original or planned irrigation area (ha)	35.0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal Others		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	
	If respondent select above "☑ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
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 <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate Cannot flow the water for some reasons (Details) Obstruction of sand/Stone (sedimentation) <input checked="" type="checkbox"/> 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		16 Opinion or request by interviewee	
				- Farmers need guidances and trainings to establish a water users group.	
				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) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				a-7) How often are the meeting held in a year?	
				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?	
				The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				- Farmers need guidances and trainings to establish a water users group.	
				● 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	
				* 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	
				 	
				Target scheme	
Remarks : describe supplemental and/or new information, if any					

District : **Lautém**

Irrigation scheme :

TAUBUTI


6-a-50TR

1	No.	50	14		
2	Date of Survey	24/1/2014			
3	Name of Irrigation scheme	TAUBUTI			
4	Name of District	Lautém			
	Name of Sub-district	Luro			
5	Name of Suco	KOTAMUTU			
	Name of Aldeia	ETANISI			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 261498 Y= 9055486			
	Grid reference in Irr. scheme except for above facility	X= 261403 Y= 9055368			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes No	
	/ If Canal →	Length of main 40 Width(m) for typical 1.00 Height(m)= 0.40		a) In case of YES	
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-1) What kind of the WG or WUAs ?	
8	Number of house hold in service area	12		WUAs Traditional WG Others	
9	Actual irrigation area (ha)	Include* 49		a-2) How many number of WG or WUAs in the irrigation scheme ?	
10	Original or planned irrigation area (ha)	9.0		a-3) Name of representative of WG or WUAs	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		Yes No	
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		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?	
				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	
				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.	
				- Farmers need guidances and trainings 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		16	
				Opinion or request by interviewee	
				- Farmers need guidances and trainings to establish a water users group.	
				● 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	
					
					
				Target scheme	
Remarks : describe supplemental and/or new information, if any					

District : 0

Irrigation scheme : Too-boro

6-a-51TR

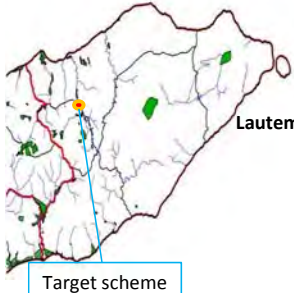

1	No.	51	14		
2	Date of Survey				
3	Name of Irrigation scheme	Too-boro			
4	Name of District				
5	Name of Sub-district				
6	Name of Suco				
6	Name of Aldeia				
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	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
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= Y=			
6	Grid reference in Irr. scheme except for above facility	X= Y=			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes No
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-1) What kind of the WG or WUAs ?	
7	/ If Canal →	Length of main Width(m) for typical Height(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?	
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-3) Name of representative of WG or WUAs	
8	Number of house hold in service area			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No
9	Actual irrigation area (ha)	none		/ 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
10	Original or planned irrigation area (ha)			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 % for years Decrease % for years
11	Original constructed year	Year's Exact year Rehabilitated year		/ if respondent select above "Yes", How change of fee?	Increase % for years Decrease % for years
12	Which type of the water source ?	Spring River Water Under Ground Water Others		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others
12	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		a-7) How often are the meeting held in a year?	
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		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
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		16	Opinion or request by interviewee "No body knows the scheme.(confirmed through field survey)"
13				● 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 : **Lautém**

Irrigation scheme :

KAIDAVALUN

6-a-52TR

1	No.	52	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	27/1/2014				(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	KAIDAVALUN					A few in 10 years		
4	Name of District	Lautém					Not functional of irrigation structure		
	Name of Sub-district	Luro					Climate change (decrease of river flow)	✓	
5	Name of Suco	AFABUBU					Others		
	Name of Aldeia	DALARI							
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?		Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					Wash out the land	✓	
		Others					Damage to irrigation structure	✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 260303 Y= 9058344					Others	
	Grid reference in Irr. scheme except for above facility	X= 261565 Y= 9058308				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
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)=					by Rice	US\$/ha as water fee	
		Number of span =				a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/HH as member ship fee		
		Width/1span (m)=					kg/ha as water fee		
		Number of gates=				/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
	/ If Canal→	Length of main	700				Decrease	%	
		Width(m) for typical	2.00			a-6) What is	Gate operation		
		Height(m)=	0.80				Gate maintenance		
	/ If Pond or lake→	Diameter of Pond(m) =					Canal Cleaning		
		Depth(m)=					Canal Rehabilitation		
		Number of Pond =					Others		
8	Number of house hold in service area	25				a-7) How often are the meeting held in a year?			
9	Actual irrigation area (ha)	28				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)	✓ is to establish a group.	
10	Original or planned irrigation area (ha)	16.0					The WG or WUAs is under establishment. (Expected establishment year)		
11	Original constructed year	Before 1970					Not required to establish (Reason)		
		Exact year					Already expired (Reason)		
		Rehabilitated year					Others		
12	Which type of the water source ?	Spring				16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.	
		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		✓	●Evaluation of Irrigation scheme				
			Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
			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		✓	Size of area (10 pts, more than 100ha)			
			Broken		✓			Total Points	50
			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			Evaluation of degree on immediate treatment				
		Broken			* Evaluation criteria				
		Not functional by deterioration		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the outlet gate		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot keep the water in pond for some reasons (Details)		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			●Location of Irrigation Scheme				
		Others			 				
		Problems on the other facilities							

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

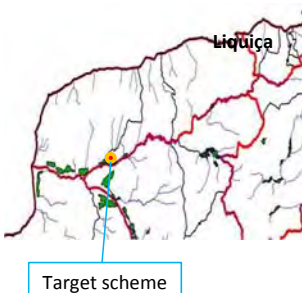

9. Liquiçà

District : Liquiça

Irrigation scheme :

FAULARA

1-c-1S

1	No.	1	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	29/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	FAULARA				A few in 10 years		
4	Name of District	Liquiça				Not functional of irrigation structure		
	Name of Sub-district	Maubara				Climate change (decrease of river flow)	✓	
5	Name of Suco	LEOTELA				Others		
	Name of Aldeia	LEVA						
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	
		Intake with gates	✓				A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 747867 Y= 9034258				Others	
	Grid reference in Irr. scheme except for above facility	X= 747573 Y= 9034221			Shortage of the workers (when plow, transplant, harvest ect) (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	WUAs		
		Others			a-1) What kind of the WG or WUAs ?	Traditional WG	✓	
	/ If Weir→	Length(m)=	4.4 x 4.4		a-2) How many number of WG or WUAs in the irrigation scheme ?	Others		
		Height(m)=	1.45		a-3) Name of representative of WG or WUAs		10	
		Width/1span (m)=	1.40		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	- Alino Campos	
		Number of span =	1		No	✓		
		Number of gates=	3		/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=	35.00		by Rice	US\$/ha as water fee		
		Height(m)=	1.20			kg/HH as member ship fee		
		Number of span =	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 ?	kg/ha as water fee		
		Width/1span (m)=	1.40		Yes			
		Number of gates=	0		No			
	/ If Canal→	Length of main	640		Increase	%		
		Width(m) for typical	1.40		Decrease	%		
		Height(m)=	1.20		/ if respondent select above "✓" Yes", How change of fee?	for years		
	/ If Pond or lake→	Diameter of Pond(m) =				for years		
		Depth(m)=			a-6) What is	Gate operation		
		Number of Pond =			Gate maintenance			
8	Number of house hold in service area	200			Canal Cleaning		✓	
9	Actual irrigation area (ha)	60			Canal Rehabilitation			
10	Original or planned irrigation area (ha)	130.0			Others			
11	Original constructed year	Before 1970			a-7) How often are the meeting held in a year?		1	
		Exact 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)		
		Rehabilitated year	2013			The WG or WUAs is under establishment. (Expected establishment year)		
12	Which type of the water source ?	Spring	✓			Not required to establish (Reason)		
		River Water	✓			Already expired (Reason)		
		Under Ground Water				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	✓					
	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		✓	● Evaluation of Irrigation scheme			
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration		✓				
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)	The new Intake has not enough length to reach the stream / The old Present some damages					
		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)	Total Points	20
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal				Evaluation of degree on immediate treatment		
		Broken				* Evaluation criteria		
		Not functional by deterioration				A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
		Cannot operate the gate				B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)		
		Cannot flow the water for some reasons (Details)				C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring).		
		Obstruction of sand/stone (sedimentation)				● Location of Irrigation Scheme		
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		Others						
		Problems on Pond/Lake						
		Broken				Target scheme		
	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							

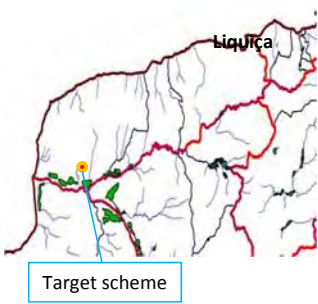

Remarks : describe supplemental and/or new information, if any

District : **Liquiça**

Irrigation scheme :

GICU IRLELO

1-c-2S

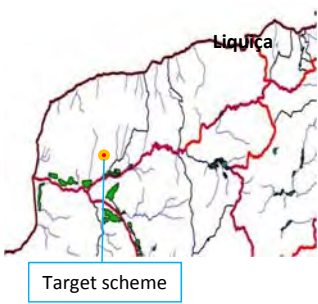

1	No.	2	14						
2	Date of Survey	29/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency) Every year A few in 5 years A few in 10 years (Cause or Reason) Not functional of irrigation structure Climate change (decrease of river flow) Others				
3	Name of Irrigation scheme	GICU IRLELO							
4	Name of District	Liquiça							
5	Name of Sub-district	Maubara							
6	Name of Suco	GICU							
6	Name of Aldeia	IRLELO							
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir Others							
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 741303 Y= 9031723							
6	Grid reference in Irr. scheme except for above facility	X= 740744 Y= 9032936							
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others							
7	/ If Weir →	Length(m)= 12 x 25 Height(m)= 5.00 Width/1span (m)= 12.00 Number of span = 1 Number of gates=							
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=							
7	/ If Canal →	Length of main 2,350 Width(m) for typical 1.84 Height(m)= 1.20							
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =							
8	Number of house hold in service area	457							
9	Actual irrigation area (ha)	157							
10	Original or planned irrigation area (ha)	477.0							
11	Original constructed year	Year's 1980s Exact year 1980 Rehabilitated year 2011							
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others							
12	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							
12	If respondent select above "Canal", show the type of canal	Concrete ✓ Wet Masonry Earth/Soil Others							
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	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					1 - Francisco Sanches
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 % for years Decrease % for years				✓	
/ if respondent select above "Yes", How change of fee?									
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				- Irrigation scheme is under rehabilitation. - Farmers claim the constantly delays, low quality materials and design for rehabilitation works on the irrigation facility. - Due to the rehabilitation of scheme, no agricultural activities are conducted.					
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 - Under rehabilitation 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 * 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 : **Liquiça**

Irrigation scheme :

MANLEKI

1-c-3TR

1	No.	3	14							
2	Date of Survey	29/12/2013		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					
3	Name of Irrigation scheme	MANLEKI								
4	Name of District	Liquiça								
4	Name of Sub-district	Maubara								
5	Name of Suco	VATUVORI								
5	Name of Aldeia	LEVA								
6	Observing location of the Grid	Free Intake								
		Intake with gates	✓							
		Pond/Lake/Spring								
		Weir								
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	747867							
		Y=	9034258							
		Grid reference in Irr. scheme except for above facility	X=						747404	
			Y=						9034595	
7	What kind of structure?	Weir								
		Intake	✓							
		Canal	✓							
		Pond/Lake								
		Others								
		/ If Weir→	Length(m)=	4.4 x 4.4						
			Height(m)=	1.45						
			Width/1span (m)=	1.40						
			Number of span =	1						
			Number of gates=	3						
		/ If Intake→	Length(m)=	35.00						
			Height(m)=	1.20						
			Number of span =	1						
			Width/1span (m)=	1.40						
	Number of gates=	0								
/ If Canal→	Length of main	426								
	Width(m) for typical	2.00								
	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	200								
9	Actual irrigation area (ha)	114								
10	Original or planned irrigation area (ha)	250.0								
11	Original constructed year	Year's	Before 1970							
		Exact year	1960							
		Rehabilitated year								
12	Which type of the water source ?	Spring	✓							
		River Water	✓							
		Under Ground Water								
		Others	- Water is supply from FAULARA							
	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		✓	● 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 * 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  Target scheme 					
		Broken								
		Not functional by deterioration								
		Cannot operate the gate								
		Cannot keep the water level for some reasons (Details) <small>The new Intake has not enough length to reach the stream / The old Presents some damages</small>								
		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										
16				Opinion or request by interviewee	- Water is supplied from FAULARA scheme.					

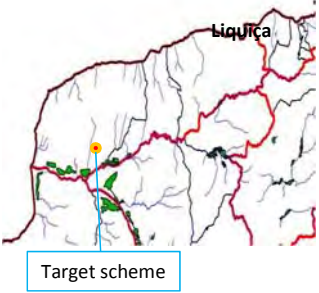

Remarks : describe supplemental and/or new information, if any

District : **Liquiça**

Irrigation scheme :

GOU LOLO TELO

1-c-4TR

1	No.	4	14		Shortage of Irrigation Water (Frequency)	Every year	✓				
2	Date of Survey	29/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓				
3	Name of Irrigation scheme	GOU LOLO TELO				Not functional of irrigation structure					
4	Name of District	Liquiça				Climate change (decrease of river flow)	✓				
5	Name of Sub-district	Maubara				Others					
6	Name of Suco	VATUVORI									
6	Name of Aldeia	LEVA									
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year				
6		Intake with gates	✓			(Contents of damage)	A few in 5 years A few in 10 years				
6		Pond/Lake/Spring					Wash out the land				
6		Weir					Damage to irrigation structure				
6		Others					Others				
6		Grid reference at Intake/Pond/lake/spring/pump	X= 747867 Y= 9034258				Shortage of the workers (when plow, transplandt, harvest ect) (Reason)				
6		Grid reference in Irr. scheme except for above facility	X= 745581 Y= 9033871				Others				
7		What kind of structure?	Weir				15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes		
7			Intake	✓					No	✓	
7			Canal	✓				a) In case of YES	WUAs		
7	Pond/Lake				a-1) What kind of the WG or WUAs ?	Traditional WG		✓			
7	Others					Others					
7	/ If Weir→		Length(m)= 4.4 x 4.4 Height(m)= 1.45 Width/1span (m)= 1.40 Number of span = 1 Number of gates= 3		a-2) How many number of WG or WUAs in the irrigation scheme ?			10			
7	/ If Intake→		Length(m)= 35.00 Height(m)= 1.20 Number of span = 1 Width/1span (m)= 1.40 Number of gates= 0		a-3) Name of representative of WG or WUAs			- Altino Campos			
7	/ If Canal→		Length of main 426 Width(m) for typical 2.00 Height(m)= 0.45		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓			
7	/ If Pond or lake→		Diameter of Pond(m) = Depth(m)= Number of Pond =		/ 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					
8	Number of house hold in service area		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 No		✓			
9	Actual irrigation area (ha)	114		/ If respondent select above "Yes", How change of fee?	Increase % Decrease %						
10	Original or planned irrigation area (ha)			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓					
11	Original constructed year	Year's	Before 1970	a-7) How often are the meeting held in a year?		1					
11		Exact year	1960								
11		Rehabilitated year									
12	Which type of the water source ?	Spring	✓	16	Opinion or request by interviewee	- Water is supplied from FAULARA scheme.					
12		River Water	✓								
12		Under Ground Water									
12		Others	- Water is supply from FAULARA scheme								
12		If respondent select above "river water", show the type of irrigation facility	Weir (concrete)				✓	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			Weir (Wooden)						The WG or WUAs is under establishment.	(Expected establishment year)	
12			Free intake				✓		Not required to establish (Reason)		
12			Intake with Gates				✓		Already expired (Reason)		
12			Pond/Lake						Others		
12		If respondent select above "Canal", show the type of canal	Canal				✓				
12	Others										
12	Concrete										
12	Wet Masonry		✓								
12	Earth/Soil		✓								
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	● Evaluation of Irrigation scheme						
13		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
13		Not functional by deterioration			Cannot keep the water level for some reasons (Details)						
13		Cannot operate the gate			The new intake has not enough length to reach the stream / The old Presents some damages						
13		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	30				
13		High maintenance cost of structure (Annual Cost US\$)		✓	Evaluation of degree on immediate treatment						
13		Others (Contents of maintenance with high cost)			* Evaluation criteria						
13		Problems on Canal			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
13		Broken			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
13		Not functional by deterioration			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
13		Cannot operate the gate			● Location of Irrigation Scheme						
13		Cannot flow the water for some reasons (Details)			 						
13		Obstruction of sand/stone (sedimentation)		✓							
13		High maintenance cost of structure (Annual Cost US\$)									
13		Others (Contents of maintenance with high cost)									
13	Problems on Pond/Lake										
13	Broken										
13	Not functional by deterioration										
13	Cannot operate the outlet gate										
13	Cannot keep the water in pond for some reasons (Details)										
13	High maintenance cost of structure (Annual Cost US\$)										
13	Others (Contents of maintenance with high cost)										
13	Problems on the other facilities										

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

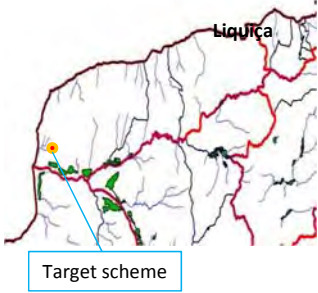

District :

Liquiça

Irrigation scheme :

WATU-BORO

1-c-5TR

1	No.	5	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	30/12/2013				(Cause or Reason)	A few in 5 years A few in 10 years	✓	
3	Name of Irrigation scheme	WATU-BORO					Not functional of irrigation structure Climate change (decrease of river flow)		
4	Name of District	Liquiça					Others		
5	Name of Sub-district	Maubara				Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	
6	Name of Suco	LESADILA					(Contents of damage)	Wash out the land	
6	Name of Aldeia	GLAI					Damage to irrigation structure	✓	
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others					Shortage of the workers (when plow, transplant, harvest ect) (Reason)	✓	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 735459 Y= 9032794					Others		
6	Grid reference in Irr. scheme except for above facility	X= 734247 Y= 9033905							
7	What kind of structure?	Weir				15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
7		Intake Canal ✓ Pond/Lake Others					a) In case of YES	WUAs Traditional WG Others	
7		/ If Weir → Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=					a-1) What kind of the WG or WUAs ?		
7		/ If Intake → Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=					a-2) How many number of WG or WUAs in the irrigation scheme ?		
7		/ If Canal → Length of main Width(m) for typical Height(m)=	500 1.30 1.00				a-3) Name of representative of WG or WUAs		
7		/ If Pond or lake → Diameter of Pond(m) = Depth(m)= Number of Pond =					a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
8	Number of house hold in service area	100					/ if respondent select above "Yes", which way do farmers pay the above fee?	by Cash US\$/HH as member ship fee by Rice US\$/ha as water fee	
9	Actual irrigation area (ha)	101					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 % % % %	
10	Original or planned irrigation area (ha)	9.0					/ if respondent select above "Yes", How change of fee?	Increase Decrease % %	
11	Original constructed year	Year's Before 1970 Exact year 1940 Rehabilitated year					a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
12	Which type of the water source ?	Spring River Water Under Ground Water Others -Pond/Lake					a-7) How often are the meeting held in a year?		
12	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					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 Farmers moved to another place due to non functional Irrigation Scheme.	
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others					16	Opinion or request by interviewee	- Farmers moved to another place due to non functional Irrigation scheme.
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		● Evaluation of Irrigation scheme					
13		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
13		Not functional by deterioration							
13		Cannot operate the gate							
13		Cannot keep the water level for some reasons (Details)		Size of area (10 pts, more than 100ha)					
13		Obstruction of sand/stone (sedimentation)		Total Points					
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		40					
13		others		Evaluation of degree on immediate treatment					
13		Problems on Canal		* Evaluation criteria					
13		Broken		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
13		Not functional by deterioration		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
13		Cannot operate the gate		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
13		Cannot flow the water for some reasons (Details)		● Location of Irrigation Scheme					
13		Obstruction of sand/stone (sedimentation)							
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13	Others		Target scheme						
13	Problems on Pond/Lake								
13	Broken								
13	Not functional by deterioration								
13	Cannot operate the outlet gate								
13	Cannot keep the water in pond for some reasons (Details)								
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)								
13	Others								
13	Problems on the other facilities								
Remarks : describe supplemental and/or new information, if any									

District : **Liquiça**

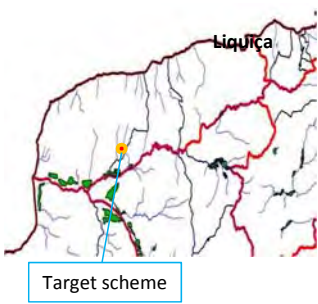

Irrigation scheme :

BANETUR

1-c-6TR

1	No.	6	14				
2	Date of Survey	29/12/2013					
3	Name of Irrigation scheme	BANETUR					
4	Name of District	Liquiça					
	Name of Sub-district	Maubara					
5	Name of Suco	LEOTELA					
	Name of Aldeia	BANETUR					
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=		No water source		
	Grid reference in Irr. scheme except for above facility	X= Y=		749926 9035307			
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	150					
9	Actual irrigation area (ha)	27					
10	Original or planned irrigation area (ha)	30.0					
11	Original constructed year	Year's Exact year Rehabilitated year			Before 1970		
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					
	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						
Remarks : describe supplemental and/or new information, if any							

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, transplant, harvest ect) (Reason)			
		Others			
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No			✓
	a) In case of YES	WUAs Traditional WG Others			
	a-1) What kind of the WG or WUAs ?				
	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 by Rice	US\$/HH as member ship fee US\$/ha as water fee 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 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		✓	- Irrigation scheme is
16	Opinion or request by interviewee	- Paddy land is totally covered by sand and stones. - No agricultural activities. - No water users groups due to non functional 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
-	90
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	
 	
Target scheme	

District : Liquiça

Irrigation scheme : GUGULEOR

1-c-7TR

1	No.	7	14								
2	Date of Survey	30/12/2013									
3	Name of Irrigation scheme	GUGULEOR									
4	Name of District	Liquiça									
	Name of Sub-district	Maubara									
5	Name of Suco	LISADITA									
	Name of Aldeia	GLAI									
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= 741303 Y= 9031723								
	Grid reference in Irr. scheme except for above facility	X= 735901 Y= 9033236									
7	What kind of structure?	Weir									
		Intake									
		Canal	✓								
		Pond/Lake									
		Others									
		-The Weir is located in									
	/ If Weir→	Length(m)=	12 x 25								
		Height(m)=	5.00								
		Width/1span (m)=	12.00								
		Number of span =	1								
		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	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	200									
9	Actual irrigation area (ha)	227									
10	Original or planned irrigation area (ha)	20.0									
11	Original constructed year	Year's Before 1960									
		Exact year	1940								
		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										
Remarks : describe supplemental and/or new information, if any											

14

Is there any major problems in the scheme ?

Shortage of Irrigation Water (Frequency)	Every year	✓
	A few in 5 years	✓
(Cause or Reason)	A few in 10 years	
	Not functional of irrigation structure	✓
Flood Damage to irrigation scheme (Frequency)	Climate change (decrease of river flow)	
	Others	
(Contents of damage)	Wash out the land	✓
	Damage to irrigation structure	
Shortage of the workers (when plow, transplant, 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

- Camilo lopes

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

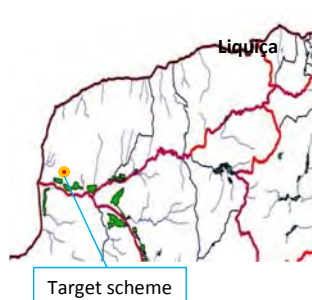
16

Opinion or request by interviewee

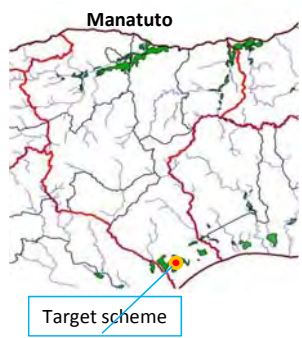

- The scheme is abandoned.

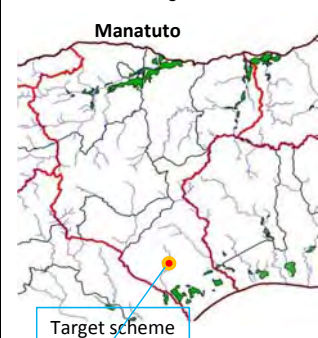

●Evaluation of Irrigation scheme			
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	60
Evaluation of degree on immediate treatment			B
* Evaluation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



10. Manatuto

1	No.	1	14				
2	Date of Survey	11/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		
3	Name of Irrigation scheme	Laku wen 2			A few in 5 years		
4	Name of District	MANATUTO			A few in 10 years		
4	Name of Sub-district	Barique			Not functional of irrigation structure		
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)		
5	Name of Aldeia	FETUK RIN			Others		
6	Observing location of the Grid Grid reference at Intake/Pond/lake/Spring/pump Grid reference in Irr. scheme except for above facility	Free Intake	<input checked="" type="checkbox"/>				
		Intake with gates					
		Pond/Lake/Spring	<input checked="" type="checkbox"/>				
		Weir					
		Others					
		X=	176808				
		Y=	9004240				
		X=	176949				
	Y=	9003834					
7	What kind of structure?	Weir					
		Intake	<input checked="" type="checkbox"/>				
		Canal	<input checked="" type="checkbox"/>				
		Pond/Lake	<input checked="" type="checkbox"/>				
		Others					
	/ If Weir→	Length(m)=					
		Height(m)=					
		Width/1span (m)=					
		Number of span =					
		Number of gates=					
	/ If Intake→	Length(m)=	200.00				
		Height(m)=	1.50				
		Number of span =					
		Width/1span (m)=	1.50				
		Number of gates=					
	/ 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) =	200.0				
		Depth(m)=					
		Number of Pond =	1				
8	Number of house hold in service area	14					
9	Actual irrigation area (ha)	53					
10	Original or planned irrigation area (ha)	10.0					
11	Original constructed year	1990s					
	Exact year	1997					
	Rehabilitated year						
12	Which type of the water source ?	Spring	<input checked="" type="checkbox"/>				
		River Water					
		Under Ground Water	<input checked="" type="checkbox"/>				
		Others					
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)					
		Weir (Wooden)					
		Free intake	<input checked="" type="checkbox"/>				
		Intake with Gates					
		Pond/Lake	<input checked="" type="checkbox"/>				
		Canal	<input checked="" type="checkbox"/>				
	If respondent select above "☑ Canal", show the type of canal	Concrete					
		Wet Masonry					
		Earth/Soil	<input checked="" type="checkbox"/>				
		Others					
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme			
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration					
		Cannot operate the gate					
		Cannot keep the water level for some reasons (Details)					
		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Total Points		20
		others					
		Problems on Canal		Evaluation of degree on immediate treatment			
		Broken		* Evaluation criteria			
		Not functional by deterioration	<input checked="" type="checkbox"/>	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/stone (sedimentation)		●Location of Irrigation Scheme			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					
		Others					
		Problems on Pond/Lake					
		Broken					
		Not functional by deterioration		Target scheme			
		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						
Remarks : describe supplemental and/or new information, if any							

1	No.	2	14					
2	Date of Survey	12/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year			
3	Name of Irrigation scheme	WE SUKAER HUN			A few in 5 years			
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Barique			Not functional of irrigation structure			
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)			
5	Name of Aldeia	FEHUR RIU			Others			
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= 174394 Y= 9006023					
	Grid reference in Irr. scheme except for above facility	X= 174462 Y= 9005905						
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	✓		
					Others			
		/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		/ If Intake→	Length(m)= 300.00 Height(m)= 1.50 Number of span = 1 Width/1span (m)= 8.00 Number of gates=		a-3) Name of representative of WG or WUAs			
		/ If Canal→	Length of main 3,000 Width(m) for typical 1.00 Height(m)= 0.80		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		/ If Pond or lake→	Diameter of Pond(m)= 200 x 8 Depth(m)= Number of Pond =		/ if respondent select above "Yes", which way do farmers pay the above fee?	No		
8	Number of house hold in service area	20			by Cash	US\$/HH as member ship fee		
9	Actual irrigation area (ha)	420			by Rice	US\$/ha as water fee		
10	Original or planned irrigation area (ha)	35.0				kg/HH as member ship fee		
11	Original constructed year	Year's	Before 1970			kg/ha as water fee		
		Exact year			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		
		Rehabilitated year	2010			No		
12	Which type of the water source ?	Spring	✓		/ if respondent select above "Yes", How change of fee?	Increase	%	
		River Water				Decrease	%	
		Under Ground Water	✓		a-6) What is	for years		
		Others			Gate operation	for years		
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)			Gate maintenance			
		Weir (Wooden)			Canal Cleaning		✓	
		Free intake	✓		Canal Rehabilitation			
		Intake with Gates			Others			
		Pond/Lake	✓		a-7) How often are the meeting held in a year?			
		Canal	✓					
	If respondent select above "Canal", show the type of canal	Concrete			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)		
		Wet Masonry				The WG or WUAs is under establishment. (Expected establishment year)		
		Earth/Soil	✓			Not required to establish (Reason)		
		Others				Already expired (Reason)		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake			16			Opinion or request by interviewee
		Broken			●Evaluation of Irrigation scheme			
		Not functional by deterioration			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	30
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal			* Evaluation criteria			
		Broken			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)	✓		●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

District : **MANATUTO**

Irrigation scheme :

BORA

3-a-3S

1	No.	3	14		Shortage of Irrigation Water (Frequency)	Every year			
2	Date of Survey	11/2/2014			(Cause or Reason)	A few in 5 years A few in 10 years Not functional of irrigation structure Climate change (decrease of river flow) Others			
3	Name of Irrigation scheme	BORA			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years			
4	Name of District	MANATUTO			(Contents of damage)	Wash out the land Damage to irrigation structure Others			
5	Name of Sub-district	Barique			Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
6	Name of Suco	UMA BOCO			Others				
6	Name of Aldeia	FEHUR RIU							
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?				
		Intake with gates	✓						
		Pond/Lake/Spring	✓						
		Weir							
		Others							
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 178160 Y= 9005097						
		Grid reference in Irr. scheme except for above facility	X= 178242 Y= 9005378						
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)= 4,000.00 Height(m)= 2.50 Number of span = 2 Width/1span (m)= 5.00 Number of gates= 1							
	/ If Canal→	Length of main Width(m) for typical Height(m)=	100 3.00 1.50						
	/ If Pond or lake→	Diameter of Pond(m)= Depth(m)= Number of Pond =	100 x 8 1						
8	Number of house hold in service area	150							
9	Actual irrigation area (ha)	251							
10	Original or planned irrigation area (ha)	200.0							
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year 1980							
12	Which type of the water source ?	Spring	✓		Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓		
		River Water				No			
		Under Ground Water	✓						
		Others							
		If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)				a) In case of YES	WUAs	
			Weir (Wooden)					Traditional WG	✓
			Free intake					Others	
			Intake with Gates				a-1) What kind of the WG or WUAs ?		
			Pond/Lake	✓					
		If respondent select above "✓ Canal", show the type of canal	Canal				a-2) How many number of WG or WUAs in the irrigation scheme ?		
	Others								
	Concrete		✓		a-3) Name of representative of WG or WUAs				
	Wet Masonry				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No			
	Earth/Soil		✓						
	Others			/ 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				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	Opinion or request by interviewee	a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?			
		Broken				Yes No			
		Not functional by deterioration				/ if respondent select above "✓ Yes", How change of fee?	Increase % for years Decrease % for years		
		Cannot operate the gate				a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
		Cannot keep the water level for some reasons (Details)				a-7) How often are the meeting held in a year?			
		Obstruction of sand/stone (sedimentation)				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		
		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								
<p>Remarks : describe supplemental and/or new information, if any</p>									

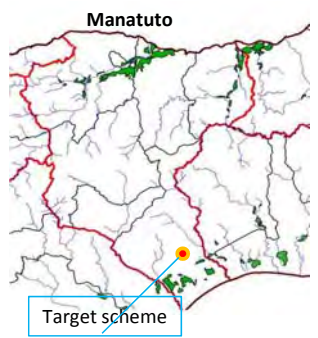

●Evaluation of Irrigation scheme

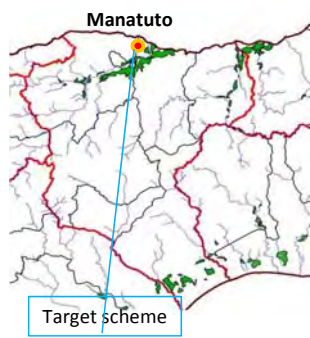

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	30

Evaluation of degree on immediate treatment

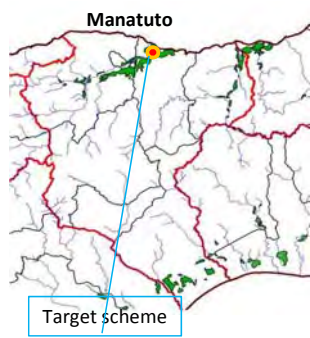

* Evaluation criteria
 A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
 B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
 C: below 50 pt (Scheme which need to conduct the examination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

●Location of Irrigation Scheme

1	No.	4	14							
2	Date of Survey	20/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓		
3	Name of Irrigation scheme	MALARAHUN				(Cause or Reason)	A few in 5 years			
4	Name of District	MANATUTO					Not functional of irrigation structure			
5	Name of Sub-district	MANATUTO					Climate change (decrease of river flow)			
6	Name of Suco	AILILI					Others			
6	Name of Aldeia	MALARAHUN					Flood Damage to irrigation scheme (Frequency)	Every year		✓
6	Observing location of the Grid	Free Intake ✓ Intake with gates ✓ Pond/Lake/Spring Weir Others					(Contents of damage)	A few in 5 years A few in 10 years		
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 829678 Y= 9056174					Wash out the land			✓
6	Grid reference in Irr. scheme except for above facility	X= 830204 Y= 9056474					Damage to irrigation structure			✓
6	Grid reference in Irr. scheme except for above facility	X= 830204 Y= 9056474					Others			
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others		Shortage of the workers (when plow, transplant, harvest ect) (Reason)						
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others		Others						
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓			
7	/ If Intake →	Length(m)= 80.00 Height(m)= 1.50 Number of span = 1 Width/1span (m)= 2.00 Number of gates= 0		a) In case of YES	WUAs Traditional WG Others		✓			
7	/ If Canal →	Length of main 200 Width(m) for typical 1.20 Height(m)= 1.50		a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others		✓			
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-2) How many number of WG or WUAs in the irrigation scheme ?			1			
8	Number of house hold in service area	250		a-3) Name of representative of WG or WUAs						
9	Actual irrigation area (ha)	101		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓			
10	Original or planned irrigation area (ha)	150.0		/ 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					
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year 2009		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 % % for years % % for years					
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		✓			
12	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		a-7) How often are the meeting held in a year?						
12	If respondent select above "✓ Canal", show the type of canal	Concrete ✓ Wet Masonry Earth/Soil Others		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					
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\$) 100,000 ✓ (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		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 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

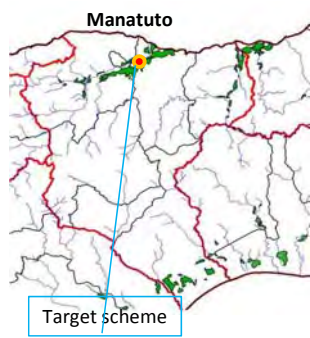

1	No.	5	14				
2	Date of Survey	30/12/2013		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		
3	Name of Irrigation scheme	LACLO(DUMI)			A few in 5 years		
4	Name of District	MANATUTO			A few in 10 years		
5	Name of Sub-district	MANATUTO			Not functional of irrigation structure		
6	Name of Suco	AITEAS			Climate change (decrease of river flow)		✓
6	Name of Aldeia	BI UAK			Others		Sedimentation on
6	Observing location of the Grid	Free Intake			Every year		
6		Intake with gates	✓		A few in 5 years		
6		Pond/Lake/Spring			A few in 10 years		
6		Weir			Wash out the land		
6	Grid reference at Intake/Pond/Lake/Spring/pump	X=	827214		Damage to irrigation structure		
6		Y=	9055086		Others		
6	Grid reference in Irr. scheme except for above facility	X=	827193				
6		Y=	9055800				
7	What kind of structure?	Weir					
7		Intake	✓				
7		Canal	✓				
7		Pond/Lake					
7		Others					
7	/ If Weir→	Length(m)=					
7		Height(m)=					
7		Width/1span (m)=					
7		Number of span =					
7		Number of gates=					
7	/ If Intake→	Length(m)=	23.00				
7		Height(m)=	1.20				
7		Number of span =	4				
7		Width/1span (m)=	3.00				
7		Number of gates=	2				
7	/ If Canal→	Length of main	7,000				
7		Width(m) for typical	3.25				
7		Height(m)=	1.00				
7	/ If Pond or lake→	Diameter of Pond(m) =					
7		Depth(m)=					
7		Number of Pond =					
8	Number of house hold in service area	972					
9	Actual irrigation area (ha)	720					
10	Original or planned irrigation area (ha)	660.0					
11	Original constructed year	Year's Before 1970					
11		Exact year					
11		Rehabilitated year	2002				
12	Which type of the water source ?	Spring					
12		River Water	✓				
12		Under Ground Water					
12		Others					
12	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)					
12			Weir (Wooden)				
12			Free intake	✓			
12			Intake with Gates	✓			
12			Pond/Lake				
12			Canal	✓			
12	If respondent select above "Canal", show the type of canal	Concrete	✓				
12			Wet Masonry	✓			
12			Earth/Soil	✓			
12			Others				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or 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 50 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			
13			Broken	✓			
13			Not functional by deterioration				
13			Cannot operate the gate				
13			Cannot keep the water level for some reasons (Details)				
13			Obstruction of sand/stone (sedimentation)	✓			
13			High maintenance cost of structure (Annual Cost US\$)	10,000			
13			(Contents of maintenance with high cost)				
13			others				
13			Problems on Canal	✓			
13			Broken	✓			
13			Not functional by deterioration				
13			Cannot operate the gate				
13			Cannot flow the water for some reasons (Details)				
13		Obstruction of sand/Stone (sedimentation)	✓				
13		High maintenance cost of structure (Annual Cost US\$)	10,000				
13		(Contents of maintenance with high cost)	- Removing				
13		Others					
13		Problems on Pond/Lake					
13		Broken					
13		Not functional by deterioration					
13		Cannot operate the outlet gate					
13		Cannot keep the water in pond for some reasons (Details)					
13		High maintenance cost of structure (Annual Cost US\$)					
13		(Contents of maintenance with high cost)					
13		Others					
13		Problems on the other facilities					
Remarks : describe supplemental and/or new information, if any  							

District : **MANATUTO**

Irrigation scheme :

HATUBELA

3-a-6S

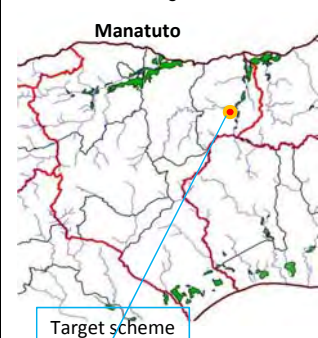

1	No.	6	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	3/1/2014			(Cause or Reason)	A few in 5 years	✓			
3	Name of Irrigation scheme	HATUBELA				A few in 10 years				
4	Name of District	MANATUTO				Not functional of irrigation structure	✓			
	Name of Sub-district	MANATUTO				Climate change (decrease of river flow)				
5	Name of Suco	ILIHEU				Others				
	Name of Aldeia	LIKORE								
6	Observing location of the Grid	Free Intake		15	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓		
		Intake with gates	✓					A few in 5 years	✓	
		Pond/Lake/Spring						A few in 10 years		
		Weir						(Contents of damage)	Wash out the land	✓
		Others						Damage to irrigation structure	✓	
		Others						Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 827533 Y= 9052065			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
	Grid reference in Irr. scheme except for above facility	X= 827680 Y= 9052494			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				
						Others				
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?					
		Height(m)=			a-3) Name of representative of WG or WUAs					
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes				
		Number of span =			No					
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee			
	/ If Intake→	Length(m)=	0.50			by Rice	US\$/ha as water fee			
		Height(m)=	1.00		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				
		Number of span =	1			No				
		Width/1span (m)=	1.50		/ if respondent select above "✓" Yes", How change of fee?	Increase	%			
		Number of gates=	2			Decrease	%			
	/ If Canal→	Length of main	4,000		a-6) What is	Gate operation				
		Width(m) for typical	1.20			Gate maintenance				
		Height(m)=	1.00			Canal Cleaning				
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Rehabilitation				
		Depth(m)=				Others				
		Number of Pond =			a-7) How often are the meeting held in a year?					
8	Number of house hold in service area	150			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)	✓			
9	Actual irrigation area (ha)	421				The WG or WUAs is under establishment. (Expected establishment year)	emes are constructed			
10	Original or planned irrigation area (ha)	160.0				Not required to establish (Reason)				
11	Original constructed year	Year's	Before 1970			Already expired (Reason)				
		Exact year				Others				
		Rehabilitated year	2003			Opinion or request by interviewee	- Farmers would like to establish a group if irrigation schemes are constructed. - Farmers do second cropping but it depends on the weather condition.			
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		✓	●Evaluation of Irrigation scheme					
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration								
		Cannot operate the gate		✓	Size of area (10 pts, more than 100ha)	Total Points	60	B		
		Cannot keep the water level for some reasons (Details)								
		Obstruction of sand/stone (sedimentation)		✓	Evaluation of degree on immediate treatment					
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		✓	* Evaluation criteria					
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		Broken		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Not functional by deterioration			●Location of Irrigation Scheme					
		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									
Remarks : describe supplemental and/or new information, if any										

District : **MANATUTO**

Irrigation scheme :

WE TITI

3-a-7TR

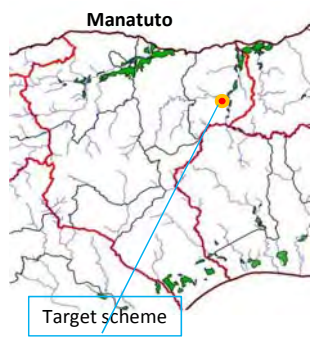

1	No.	7	14								
2	Date of Survey	16/2/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	WE TITI					(Cause or Reason)	A few in 5 years		✓	
4	Name of District	MANATUTO						A few in 10 years			
5	Name of Sub-district	LALEIA						Not functional of irrigation structure			
6	Name of Suco	CAIRUI						Climate change (decrease of river flow)			
6	Name of Aldeia	HATU SILI						Others			
6	Observing location of the Grid	Free Intake	✓				Flood Damage to irrigation scheme (Frequency)	Every year		✓	
		Intake with gates							A few in 5 years		
		Pond/Lake/Spring							A few in 10 years		
		Weir							(Contents of damage)	Wash out the land	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 186363 Y= 9044727				Damage to irrigation structure		✓			
	Grid reference in Irr. scheme except for above facility	X= 186356 Y= 9045062				Others					
7	What kind of structure?	Weir			Shortage of the workers (when plow, transplant, harvest ect) (Reason)						
		Intake	✓								
		Canal	✓								
		Pond/Lake									
		Others									
	/ If Weir→	Length(m)=									
		Height(m)=									
		Width/1span (m)=									
		Number of span =									
		Number of gates=									
	/ If Intake→	Length(m)=	300.00								
		Height(m)=	0.70								
		Number of span =	1								
		Width/1span (m)=	0.80								
		Number of gates=									
	/ If Canal→	Length of main	3,000								
		Width(m) for typical	0.80								
		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	60									
9	Actual irrigation area (ha)	49									
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			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									
	If respondent select above "Canal", show the type of canal	Pond/Lake									
		Canal	✓								
		Others									
		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		✓	●Evaluation of Irrigation scheme						
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
		Not functional by deterioration		✓							
		Cannot operate the gate									
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points	30			
		Obstruction of sand/stone (sedimentation)			Evaluation of degree on immediate treatment						
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			* Evaluation criteria						
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
		Problems on Canal			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
		Broken			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
		Not functional by deterioration		✓	●Location of Irrigation Scheme						
		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										

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

District : **MANATUTO**

Irrigation scheme : **WE MANU WEN**

3-a-8TR

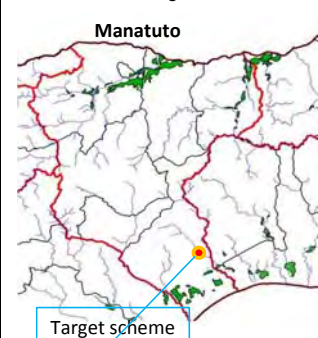

1	No.	8	14					
2	Date of Survey	12/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year			
3	Name of Irrigation scheme	WE MANU WEN			A few in 5 years			
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Barique			Not functional of irrigation structure			
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)			
5	Name of Aldeia	FEHUR RIU			Others			
6	Observing location of the Grid Grid reference at Intake/Pond/Lake/Spring/pump Grid reference in Irr. scheme except for above facility	Free Intake			Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		
6		Intake with gates	✓			A few in 5 years		
6		Pond/Lake/Spring	✓			A few in 10 years		
6		Weir				Wash out the land		
6		Others				Damage to irrigation structure		
6		X=	176939			Others		
6		Y=	9006125					
6		X=	177304					
6	Y=	9005705						
7	What kind of structure?	Weir						
7		Intake	✓					
7		Canal	✓					
7		Pond/Lake	✓					
7		Others						
7	/ If Weir→	Length(m)=						
7		Height(m)=						
7		Width/1span (m)=						
7		Number of span =						
7		Number of gates=						
7	/ If Intake→	Length(m)=	3,000.00					
7		Height(m)=	2.00					
7		Number of span =	1					
7		Width/1span (m)=	0.90					
7		Number of gates=	1					
7	/ If Canal→	Length of main	100					
7		Width(m) for typical	0.50					
7		Height(m)=	0.50					
7	/ If Pond or lake→	Diameter of Pond(m) =	30 x 6					
7		Depth(m)=	2.00					
7		Number of Pond =	1					
8	Number of house hold in service area	17						
9	Actual irrigation area (ha)	include*3						
10	Original or planned irrigation area (ha)	17.0						
11	Original constructed year	Year's Before 1970						
11		Exact year						
11		Rehabilitated year	1990					
12	Which type of the water source ? If respondent select above "river water", show the type of irrigation facility If respondent select above "Canal", show the type of canal	Spring	✓	Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "Yes", which way do farmers pay the above 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 ? / if respondent select above "Yes", How change of fee? a-6) What is 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.	Yes	✓		
12		River Water			WUAs			
12		Under Ground Water			Traditional WG	✓		
12		Others			Others			
12		Weir (concrete)						
12		Weir (Wooden)						
12		Free intake						
12		Intake with Gates	✓					
12		Pond/Lake	✓					
12		Canal	✓					
12	Others							
12	Concrete	✓						
12	Wet Masonry							
12	Earth/Soil	✓						
12	Others							
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme				
13		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
13		Not functional by deterioration	✓					
13		Cannot operate the gate						
13		Cannot keep the water level for some reasons (Details)						
13		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)				
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Total Points		30	
13		others						
13		Problems on Canal		Evaluation of degree on immediate treatment				
13		Broken		* Evaluation criteria				
13		Not functional by deterioration	✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
13		Cannot operate the gate		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
13		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
13		Obstruction of sand/Stone (sedimentation)		●Location of Irrigation Scheme				
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13		Others						
13		Problems on Pond/Lake						
13		Broken						
13		Not functional by deterioration		Remarks : describe supplemental and/or new information, if any				
13		Cannot operate the outlet gate						
13	Cannot keep the water in pond for some reasons (Details)							
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13	Others							
13	Problems on the other facilities							

District : **MANATUTO**

Irrigation scheme :

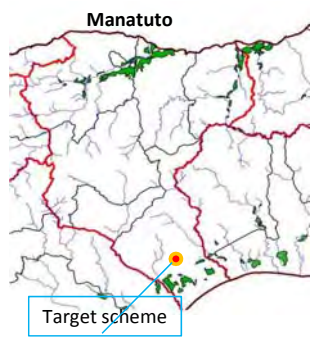

WE KA NUAK

3-a-9TR

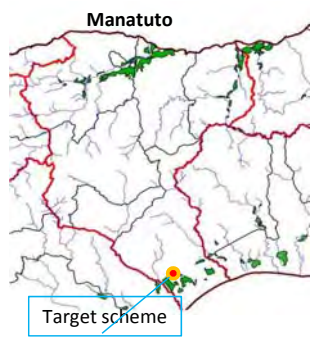

1	No.	9	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	11/2/2014			(Cause or Reason)	A few in 5 years A few in 10 years			
3	Name of Irrigation scheme	WE KA NUAK				Not functional of irrigation structure			
4	Name of District	MANATUTO				Climate change (decrease of river flow)	✓		
5	Name of Sub-district	Barique				Others			
6	Name of Suco	UMA BOCO							
6	Name of Aldeia	WE MAU BADAQ							
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year			
6		Intake with gates				(Contents of damage)	A few in 5 years A few in 10 years		
6		Pond/Lake/Spring	✓				Wash out the land		
6		Weir					Damage to irrigation structure		
6		Others					Others		
6		Grid reference at Intake/Pond/Lake/Spring/pump	X= 181203.57 Y= 9010504.72				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
6	Grid reference in Irr. scheme except for above facility	X= 180540 Y= 9009129			Others				
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓		
7		Intake	✓		a) In case of YES	WUAs			
7		Canal	✓		a-1) What kind of the WG or WUAs ?	Traditional WG	✓		
7		Pond/Lake	✓			Others			
7		Others			a-2) How many number of WG or WUAs in the irrigation scheme ?				
7		/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a-3) Name of representative of WG or WUAs				
7		/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No			
7		/ If Canal →	Length of main 3,000 Width(m) for typical 8.00 Height(m)= 3.00		/ 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			
7		/ If Pond or lake →	Diameter of Pond(m)= 200 x 8 Depth(m)= 3.00 Number of Pond = 1		by Rice kg/HH as member ship fee kg/ha as water fee				
8	Number of house hold in service area	24			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			
9	Actual irrigation area (ha)	86			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease %			
10	Original or planned irrigation area (ha)	12.0			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓		
11	Original constructed year	Before 1970			a-7) How often are the meeting held in a year?				
11	Rehabilitated year	1990			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			
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓ ✓		Opinion or request by interviewee	- Crocodiles inside the pond.			
12	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)							
12		Weir (Wooden)							
12		Free intake							
12		Intake with Gates							
12		Pond/Lake	✓						
12		Canal	✓						
12	If respondent select above "✓ Canal", show the type of canal	Concrete							
12		Wet Masonry							
12		Earth/Soil	✓						
12		Others							
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		16	● Evaluation of Irrigation scheme				
13		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
13		Not functional by deterioration	✓						
13		Cannot operate the gate							
13		Cannot keep the water level for some reasons (Details)							
13		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)	Total Points	20	
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13		others				Evaluation of degree on immediate treatment			
13		Problems on Canal				* 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).			
13		Broken				● Location of Irrigation Scheme			
13		Not functional by deterioration	✓			 			
13		Cannot operate the gate							
13		Cannot flow the water for some reasons (Details)							
13		Obstruction of sand/stone (sedimentation)							
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13		Others							
13		Problems on Pond/Lake							
13		Broken							
13		Not functional by deterioration							
13		Cannot operate the outlet gate							
13	Cannot keep the water in pond for some reasons (Details)								
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)								
13	Others								
13	Problems on the other facilities								

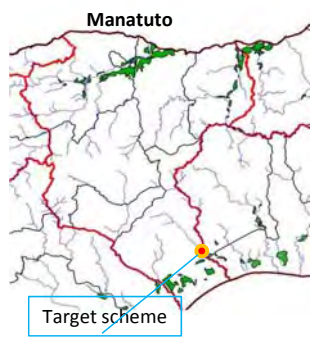
Remarks : describe supplemental and/or new information, if any

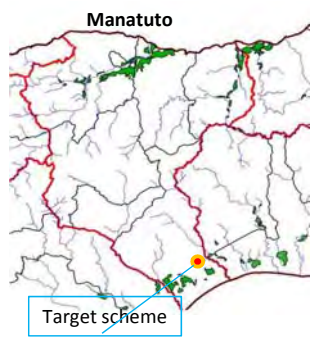

1	No.	10	14					
2	Date of Survey	12/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year			
3	Name of Irrigation scheme	WE SALUN 2			A few in 5 years			
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Barique			Not functional of irrigation structure			
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)			
5	Name of Aldeia	FEHUK RIU			Others			
6	Observing location of the Grid Grid reference at Intake/Pond/Lake/Spring/pump Grid reference in Irr. scheme except for above facility	Free Intake	<input checked="" type="checkbox"/>					
		Intake with gates						
		Pond/Lake/Spring	<input checked="" type="checkbox"/>					
		Weir						
		Others						
		X=	179628					
		Y=	9005177					
		X=	179649					
	Y=	9004460						
7	What kind of structure?	Weir						
		Intake	<input checked="" type="checkbox"/>					
		Canal	<input checked="" type="checkbox"/>					
		Pond/Lake	<input checked="" type="checkbox"/>					
		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)=	1.20					
		Number of gates=	1					
	/ If Canal→	Length of main	3,000					
		Width(m) for typical	1.00					
		Height(m)=	0.80					
	/ If Pond or lake→	Diameter of Pond(m) =	10 x 6					
		Depth(m)=						
		Number of Pond =	1					
8	Number of house hold in service area	100						
9	Actual irrigation area (ha)	23						
10	Original or planned irrigation area (ha)	150.0						
11	Original constructed year	Before 1970						
		Exact year						
		Rehabilitated year						
12	Which type of the water source ?	Spring	<input checked="" type="checkbox"/>					
		River Water						
		Under Ground Water	<input checked="" type="checkbox"/>					
		Others						
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)						
		Weir (Wooden)						
		Free intake	<input checked="" type="checkbox"/>					
		Intake with Gates						
		Pond/Lake	<input checked="" type="checkbox"/>					
		Canal	<input checked="" type="checkbox"/>					
		Others						
	If respondent select above "☑ Canal", show the type of canal	Concrete	<input checked="" type="checkbox"/>					
		Wet Masonry						
		Earth/Soil	<input checked="" type="checkbox"/>					
		Others						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		15 Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "☑ Yes", which way do farmers pay the above 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 ? / if respondent select above "☑ Yes", How change of fee? a-6) What is 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.	Yes No WUAs Traditional WG Others Yes No US\$/HH as member ship fee US\$/ha as water fee kg/HH as member ship fee kg/ha as water fee Yes No Increase % for years Decrease % for years Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others 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			
		Broken						
		Not functional by deterioration	<input checked="" type="checkbox"/>					
		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	<input checked="" type="checkbox"/>					
		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							
	Remarks : describe supplemental and/or new information, if any							

1	No.	11	14					
2	Date of Survey	12/2/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency) (Cause or Reason)	Every year		
3	Name of Irrigation scheme	SUKAER				A few in 5 years		
4	Name of District	MANATUTO				A few in 10 years		
4	Name of Sub-district	Barique				Not functional of irrigation structure		
5	Name of Suco	UMA BOCO				Climate change (decrease of river flow)		
5	Name of Aldeia	FEHUK RIU				Others		
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme (Frequency) (Contents of damage)	Every year	
		Intake with gates					A few in 5 years	
		Pond/Lake/Spring	✓				A few in 10 years	
		Weir					Wash out the land	
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	178283				Damage to irrigation structure	
		Y=	9005358				Others	
6	Grid reference in Irr. scheme except for above facility	X=	178327			Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others		
		Y=	9005349					
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes		
7	/ 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 =	Intake	✓		a) In case of YES	WUAs		
		Canal	✓		a-1) What kind of the WG or WUAs ?	Traditional WG		
		Pond/Lake	✓		a-2) How many number of WG or WUAs in the irrigation scheme ?	Others		
		Others			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 Rice	US\$/ha as water fee	
						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	%	
						Decrease	%	
8	Number of house hold in service area	30		a-6) What is	Gate operation			
9	Actual irrigation area (ha)	include 3*			Gate maintenance			
10	Original or planned irrigation area (ha)	100.0			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?			
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) The WG or WUAs is under establishment. (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others			
		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						
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		16 Opinion or request by interviewee - No agricultural activities since 1999.	● Evaluation of Irrigation scheme			
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration	✓					
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)	Total Points	30
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others				Evaluation of degree on immediate treatment		
		Problems on Canal				* Evaluation criteria		
		Broken			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)			● Location of Irrigation Scheme			
		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								

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

1	No.	12	14		Shortage of Irrigation Water (Frequency)	Every year																					
2	Date of Survey	12/2/2014			(Cause or Reason)	A few in 5 years																					
3	Name of Irrigation scheme	KETIMUN				A few in 10 years																					
4	Name of District	MANATUTO				Not functional of irrigation structure																					
	Name of Sub-district	Barique				Climate change (decrease of river flow)																					
5	Name of Suco	UMA BOCO				Others																					
	Name of Aldeia	FEHUK RIU																									
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates <input type="checkbox"/> Pond/Lake/Spring <input checked="" type="checkbox"/> Weir <input type="checkbox"/> Others <input type="checkbox"/>		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year																					
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 176499 Y= 9002501			(Contents of damage)	A few in 5 years																					
	Grid reference in Irr. scheme except for above facility	X= 176610 Y= 9002340				A few in 10 years																					
7	What kind of structure?	Weir <input type="checkbox"/> Intake <input checked="" type="checkbox"/> Canal <input checked="" type="checkbox"/> Pond/Lake <input checked="" type="checkbox"/> Others <input type="checkbox"/>		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes <input type="checkbox"/> No <input type="checkbox"/>																					
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs																						
	/ If Intake →	Length(m)= 100.00 Height(m)= 0.80 Number of span = 1 Width/1span (m)= 1.30 Number of gates=		a-1) What kind of the WG or WUAs ?	Traditional WG Others																						
	/ If Canal →	Length of main 3,000 Width(m) for typical 1.30 Height(m)= 0.80		a-2) How many number of WG or WUAs in the irrigation scheme ?																							
	/ If Pond or lake →	Diameter of Pond(m)= 100 x 1.3 Depth(m)= Number of Pond = 1		a-3) Name of representative of WG or WUAs																							
8	Number of house hold in service area	0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes <input type="checkbox"/> No <input type="checkbox"/>																						
9	Actual irrigation area (ha)	73		/ 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																						
10	Original or planned irrigation area (ha)	0.0		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 <input type="checkbox"/> No <input type="checkbox"/>																						
11	Original constructed year	Year's Exact year Rehabilitated year		/ if respondent select above "Yes", How change of fee?	Increase <input type="checkbox"/> Decrease <input type="checkbox"/>	% for years																					
12	Which type of the water source ?	Spring <input type="checkbox"/> River Water <input type="checkbox"/> Under Ground Water <input type="checkbox"/> Others <input type="checkbox"/>		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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		a-7) How often are the meeting held in a year?																							
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		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																						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input type="checkbox"/> 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		16	Opinion or request by interviewee	- No agricultural activities since 1999 because the political situation at that moment																					
		Problems on Canal Broken <input type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input type="checkbox"/> 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 <input type="checkbox"/> Not functional by deterioration <input type="checkbox"/> Cannot operate the outlet gate <input type="checkbox"/> 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																									
<p>Remarks : describe supplemental and/or new information, if any</p>																											
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">●</td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td style="text-align: center;">20</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td style="text-align: center;">C</td> </tr> <tr> <td colspan="4">* 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).</td> </tr> </table> <p>● Location of Irrigation Scheme</p> <div style="display: flex; align-items: center;">   </div>				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).			
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).																											

1	No.	13	14		Shortage of Irrigation Water (Frequency)	Every year		
2	Date of Survey	12/2/2014			(Cause or Reason)	A few in 5 years		
3	Name of Irrigation scheme	CACAE UMAN				A few in 10 years		
4	Name of District	MANATUTO				Not functional of irrigation structure		
	Name of Sub-district	Barique				Climate change (decrease of river flow)		
5	Name of Suco	AUBEON				Others		
	Name of Aldeia	BUBUR LARAN						
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year		
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring	<input checked="" type="checkbox"/>				A few in 10 years	
		Weir					Wash out the land	
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 181715				Others	
			Y= 9007498				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
		Grid reference in Irr. scheme except for above facility	X= 181813				Others	
			Y= 9007389					
7		What kind of structure?	Weir			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes
		Intake	<input checked="" type="checkbox"/>		No			
		Canal	<input checked="" type="checkbox"/>		a) In case of YES			
		Pond/Lake	<input checked="" type="checkbox"/>		a-1) What kind of the WG or WUAs ?	WUAs		
		Others				Traditional WG	<input checked="" type="checkbox"/>	
						Others		
		/ If Weir →	Length(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?			
			Height(m)=		a-3) Name of representative of WG or WUAs			
			Width/1span (m)=		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
			Number of span =		No			
			Number of gates=		/ if respondent select above "Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
		/ If Intake →	Length(m)=			by Rice	US\$/ha as water fee	
			Height(m)=		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		
			Number of span =		No			
			Width/1span (m)=		/ if respondent select above "Yes", How change of fee?	Increase	%	
			Number of gates=			Decrease	%	
		/ If Canal →	Length of main		a-6) What is	Gate operation		
			Width(m) for typical			Gate maintenance		
			Height(m)=			Canal Cleaning	<input checked="" type="checkbox"/>	
		/ If Pond or lake →	Diameter of Pond(m) =			Canal Rehabilitation		
			Depth(m)=			Others		
			Number of Pond =		a-7) How often are the meeting held in a year?			
8	Number of house hold in service area	80			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)		
9	Actual irrigation area (ha)	200				The WG or WUAs is under establishment. (Expected establishment year)		
10	Original or planned irrigation area (ha)	200.0				Not required to establish (Reason)		
11	Original constructed year	Before 1970				Already expired (Reason)		
		Exact year				Others		
		Rehabilitated year	2013		16	Opinion or request by interviewee		
12	Which type of the water source ?	Spring	<input checked="" type="checkbox"/>		● Evaluation of Irrigation scheme			
		River Water			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Under Ground Water	<input checked="" type="checkbox"/>					
		Others						
		If respondent select above "River water", show the type of irrigation facility	Weir (concrete)			Size of area (10 pts, more than 100ha)	Total Points	30
			Weir (Wooden)			Evaluation of degree on immediate treatment		
			Free intake	<input checked="" type="checkbox"/>		* Evaluation criteria		
			Intake with Gates			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
			Pond/Lake	<input checked="" type="checkbox"/>		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)		
		If respondent select above "Canal", show the type of canal	Canal	<input checked="" type="checkbox"/>		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)		
	Others				● Location of Irrigation Scheme			
	Concrete		<input checked="" type="checkbox"/>					
	Wet Masonry		<input checked="" type="checkbox"/>					
	Earth/Soil		<input checked="" type="checkbox"/>					
	Others							
	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	<input checked="" type="checkbox"/>					
		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	<input checked="" type="checkbox"/>					
		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							
Remarks : describe supplemental and/or new information, if any								

1	No.	14	14					
2	Date of Survey	12/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year			
3	Name of Irrigation scheme	WE TANFUIK			A few in 5 years			
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Barique			Not functional of irrigation structure			
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)			
5	Name of Aldeia	FEHUK RIU			Others			
6	Observing location of the Grid	Free Intake	✓					
		Intake with gates						
		Pond/Lake/Spring	✓					
		Weir						
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	181596					
		Y=	9005238					
		X=	181522					
		Y=	9005135					
7	What kind of structure?	Weir		15 Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "Yes", which way do farmers pay the above 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 ? / if respondent select above "Yes", How change of fee? a-6) What is 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.	Yes	✓		
		Intake	✓		No			
		Canal	✓		WUAs			
		Pond/Lake	✓		Traditional WG	✓		
		Others			Others			
		/ If Weir→	Length(m)=					
			Height(m)=					
			Width/1span (m)=					
			Number of span =					
			Number of gates=					
		/ If Intake→	Length(m)=		200.00			
			Height(m)=		0.60			
			Number of span =		1			
			Width/1span (m)=		1.20			
/ If Canal→	Length of main	1,000						
	Width(m) for typical	1.20						
	Height(m)=	0.60						
/ If Pond or lake→	Diameter of Pond(m) =	200 x 6						
	Depth(m)=							
	Number of Pond =							
8	Number of house hold in service area	17						
9	Actual irrigation area (ha)	9						
10	Original or planned irrigation area (ha)	12.5						
11	Original constructed year	Year's	2000s					
		Exact year						
		Rehabilitated year	2010					
12	Which type of the water source ?	Spring	✓	16 Opinion or request by interviewee - Farmers request the construction of Intake for second cropping.				
		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	✓					
	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		●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 * 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  				
		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						

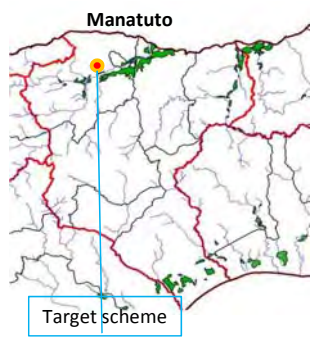

Remarks : describe supplemental and/or new information, if any

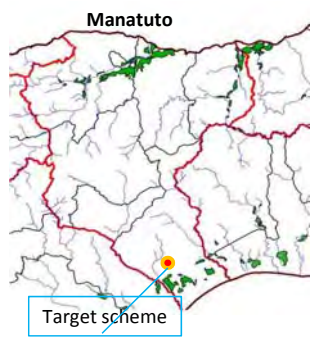

District : **MANATUTO**

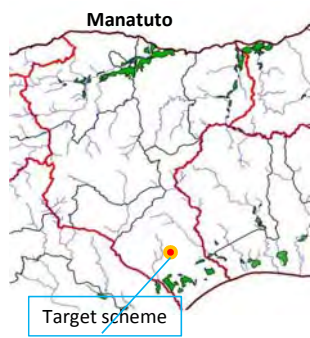

Irrigation scheme :

BILOU

3-a-15TR

1	No.	15	14				
2	Date of Survey	18/12/2013	Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others				
3	Name of Irrigation scheme	BILOU					
4	Name of District	MANATUTO					
	Name of Sub-district	LACLO					
5	Name of Suco	LACO MESAC					
	Name of Aldeia	TAHAGAMU					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	15 Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "Yes", which way do farmers pay the above 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 ? / if respondent select above "Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee				
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 819488 Y= 9051930					
	Grid reference in Irr. scheme except for above facility	X= 820221 Y= 9052409					
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	200					
9	Actual irrigation area (ha)	26					
10	Original or planned irrigation area (ha)	150.0					
11	Original constructed year	Year's Exact year Rehabilitated year					
		Before 1970 1988					
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			• 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 * 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.	16	14		
2	Date of Survey	12/2/2014			
3	Name of Irrigation scheme	LOWAI(LAWAI)			
4	Name of District	MANATUTO			
	Name of Sub-district	Barique			
5	Name of Suco	UMA BOCO			
	Name of Aldeia	FEHUK RIU			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates <input type="checkbox"/> Pond/Lake/Spring <input checked="" type="checkbox"/> Weir <input type="checkbox"/> Others <input type="checkbox"/>		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 175314 Y= 9004208			
	Grid reference in Irr. scheme except for above facility	X= 175321 Y= 9004228			
7	What kind of structure?	Weir <input type="checkbox"/> Intake <input checked="" type="checkbox"/> Canal <input checked="" type="checkbox"/> Pond/Lake <input checked="" type="checkbox"/> Others <input type="checkbox"/>		15 Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes <input type="checkbox"/> No <input type="checkbox"/>	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	
	/ If Intake →	Length(m)= 200.00 Height(m)= 1.50 Number of span = Width/1span (m)= 8.00 Number of gates=		a-1) What kind of the WG or WUAs ? WUAs <input type="checkbox"/> Traditional WG <input type="checkbox"/> Others <input type="checkbox"/>	
	/ If Canal →	Length of main 3,000 Width(m) for typical 1.00 Height(m)= 0.80		a-2) How many number of WG or WUAs in the irrigation scheme ?	
	/ If Pond or lake →	Diameter of Pond(m)= 200.0 Depth(m)= 8.00 Number of Pond =		a-3) Name of representative of WG or WUAs	
8	Number of house hold in service area	30		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs? Yes <input type="checkbox"/> No <input type="checkbox"/>	
9	Actual irrigation area (ha)	18		/ 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	
10	Original or planned irrigation area (ha)	50.0		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 <input type="checkbox"/> No <input type="checkbox"/> % <input type="checkbox"/> for years <input type="checkbox"/> Decrease % <input type="checkbox"/> for years <input type="checkbox"/>	
11	Original constructed year	Year's 1970s Exact year 1970 Rehabilitated year		a-6) What is Gate operation <input type="checkbox"/> Gate maintenance <input type="checkbox"/> Canal Cleaning <input type="checkbox"/> Canal Rehabilitation <input type="checkbox"/> Others <input type="checkbox"/>	
12	Which type of the water source ?	Spring <input type="checkbox"/> River Water <input type="checkbox"/> Under Ground Water <input type="checkbox"/> Others <input type="checkbox"/>		a-7) How often are the meeting held in a year?	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete) <input type="checkbox"/> Weir (Wooden) <input type="checkbox"/> Free intake <input type="checkbox"/> Intake with Gates <input type="checkbox"/> Pond/Lake <input type="checkbox"/> Canal <input type="checkbox"/> Others <input type="checkbox"/>		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	
	If respondent select above "☑ Canal", show the type of canal	Concrete <input type="checkbox"/> Wet Masonry <input type="checkbox"/> Earth/Soil <input type="checkbox"/> Others <input type="checkbox"/>		16 Opinion or request by interviewee - No agricultural activities since 2007 (7 years ago) due to shortage of tractors.	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input type="checkbox"/> Not functional by deterioration <input type="checkbox"/> Cannot operate the gate <input type="checkbox"/> Cannot keep the water level for some reasons (Details) <input type="checkbox"/> Obstruction of sand/stone (sedimentation) <input type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) <input type="checkbox"/> others <input type="checkbox"/> Problems on Canal Broken <input type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input type="checkbox"/> Cannot flow the water for some reasons (Details) <input type="checkbox"/> Obstruction of sand/Stone (sedimentation) <input type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) <input type="checkbox"/> Others <input type="checkbox"/> Problems on Pond/Lake Broken <input type="checkbox"/> Not functional by deterioration <input type="checkbox"/> Cannot operate the outlet gate <input type="checkbox"/> Cannot keep the water in pond for some reasons (Details) <input type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) <input type="checkbox"/> Others <input type="checkbox"/> Problems on the other facilities <input type="checkbox"/>		● Evaluation of Irrigation scheme Shortage of water / Obstruction of water pass(40pts) <input type="checkbox"/> Problem of intake and keeping water level(20pts) <input type="checkbox"/> Damage of structure(20pts) <input type="checkbox"/> Flood effect(10pts) <input type="checkbox"/> Size of area (10 pts, more than 100ha) <input type="checkbox"/> 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					

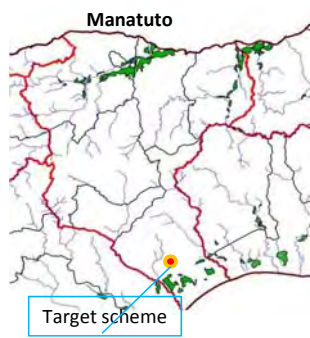

1	No.	17	14					
2	Date of Survey	11/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year			
3	Name of Irrigation scheme	WE ULUN			A few in 5 years			
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Barique			Not functional of irrigation structure			
5	Name of Suco	UMA BOCO			Climate change (decrease of river flow)			
5	Name of Aldeia	FEITUK RIN			Others			
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>					
		Intake with gates						
		Pond/Lake/Spring	<input checked="" type="checkbox"/>					
		Weir						
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	175927					
		Y=	9006090					
		X=	176013					
		Y=	9006092					
7	What kind of structure?	Weir						
		Intake	<input checked="" type="checkbox"/>					
		Canal	<input checked="" type="checkbox"/>					
		Pond/Lake	<input checked="" type="checkbox"/>					
	/ If Weir→	Length(m)=						
		Height(m)=						
		Width/1span (m)=						
		Number of span =						
/ If Intake→	Length(m)=	200.00						
	Height(m)=	0.50						
	Number of span =	1						
	Width/1span (m)=	6.00						
/ If Canal→	Length of main	2,000						
	Width(m) for typical	1.00						
	Height(m)=	0.50						
	/ If Pond or lake→	Diameter of Pond(m) =	200 x 6					
	Depth(m)=							
	Number of Pond =	1						
8	Number of house hold in service area	25						
9	Actual irrigation area (ha)	28						
10	Original or planned irrigation area (ha)	37.0						
11	Original constructed year	Year's	Before 1970					
		Exact year						
		Rehabilitated year						
12	Which type of the water source ?	Spring	<input checked="" type="checkbox"/>					
		River Water						
		Under Ground Water						
		Others	- Lake (for Keeping water)					
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)						
		Weir (Wooden)						
		Free intake	<input checked="" type="checkbox"/>					
		Intake with Gates						
		Pond/Lake	<input checked="" type="checkbox"/>					
		Canal	<input checked="" type="checkbox"/>					
If respondent select above "☑ Canal", show the type of canal	Concrete							
	Wet Masonry							
	Earth/Soil	<input checked="" type="checkbox"/>						
	Others							
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate		Size of area (10 pts, more than 100ha)		Total Points	20	
		Cannot keep the water level for some reasons (Details)		Evaluation of degree on immediate treatment				
		Obstruction of sand/stone (sedimentation)		* Evaluation criteria				
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		others		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Problems on Canal		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Broken		●Location of Irrigation Scheme				
		Not functional by deterioration	<input checked="" type="checkbox"/>					
		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								

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

District : **MANATUTO**

Irrigation scheme : **Laku wen 1**

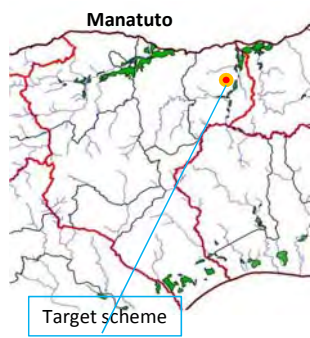

3-a-18TR

1	No.	18	14		Shortage of Irrigation Water (Frequency)	Every year													
2	Date of Survey	1/2/2014			(Cause or Reason)	A few in 5 years													
3	Name of Irrigation scheme	Laku wen 1				A few in 10 years													
4	Name of District	MANATUTO				Not functional of irrigation structure													
	Name of Sub-district	Barique				Climate change (decrease of river flow)													
5	Name of Suco	UMA BOCO				Others													
	Name of Aldeia	FETUK RIN																	
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years												
	Grid reference at Intake/Pond/Lake/Spring/pump	X= Y=	176808 9004240			(Contents of damage)	Wash out the land Damage to irrigation structure Others												
	Grid reference in Irr. scheme except for above facility	X= Y=	176987 9004083			Shortage of the workers (when plow, transplant, harvest ect) (Reason)													
7	What kind of structure?	Weir Intake Canal Pond/Lake Others	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No												
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>												
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=	200.00 1.50 1.50		a-1) What kind of the WG or WUAs ?														
	/ If Canal →	Length of main Width(m) for typical Height(m)=	2,000 1.30 1.30		a-2) How many number of WG or WUAs in the irrigation scheme ?														
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =	200.0 8.00		a-3) Name of representative of WG or WUAs														
8	Number of house hold in service area		30		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No													
9	Actual irrigation area (ha)		include "1"		/ 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													
10	Original or planned irrigation area (ha)		50.0		by Rice kg/HH as member ship fee kg/ha as water fee														
11	Original constructed year	Year's Exact year Rehabilitated year	1970s 2010		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 % % for years													
12	Which type of the water source ?	Spring River Water Under Ground Water Others			/ if respondent select above "☑ Yes", How change of fee?	Increase Decrease % % for years													
	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	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>												
	If respondent select above "☑ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		a-7) How often are the meeting held in a year?														
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			16	Opinion or request by interviewee	- Farmers would like to establish a water users group if irrigation schemes are constructed.												
		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	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																
		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	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																
		Problems on the other facilities																	
<p>Remarks : describe supplemental and/or new information, if any</p>																			
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>30</td> </tr> </table> <p>Evaluation of degree on immediate treatment</p> <p>* 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).</p> <p>● Location of Irrigation Scheme</p> <div style="display: flex; align-items: center;">   </div>				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
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																

District : **Manatuto**

Irrigation scheme : **WE LOLON WAI(META GADI)** 3-a-19TR

1	No.	19	14					
2	Date of Survey	15/1/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		✓	
3	Name of Irrigation scheme	WE LOLON WAI(META GADI)			A few in 5 years		✓	
4	Name of District	Manatuto			A few in 10 years			
5	Name of Sub-district	Laleia			Not functional of irrigation structure			
6	Name of Suco	LIFAU			Climate change (decrease of river flow)			
6	Name of Aldeia	LIFAU			Others			
6	Observing location of the Grid	Free Intake	✓					
		Intake with gates						
		Pond/Lake/Spring						
		Weir						
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	188034.66					
		Y=	9053657.84					
	Grid reference in Irr. scheme except for above facility	X=	188181					
		Y=	9053848					
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	6,000					
		Width(m) for typical	3.00					
		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	560						
9	Actual irrigation area (ha)	15						
10	Original or planned irrigation area (ha)	1,000.0						
11	Original constructed year	Before 1970						
		Exact year						
		Rehabilitated year	1990					
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	✓					
	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		15 Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "Yes", which way do farmers pay the above 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 ? / if respondent select above "Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee	Yes		✓	
		Broken				No		✓
		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							

1	No.	20	14							
2	Date of Survey	7/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓		
3	Name of Irrigation scheme	KAKO'O						A few in 5 years		✓
4	Name of District	Manatuto						A few in 10 years		
4	Name of Sub-district	Laleia						(Cause or Reason) Not functional of irrigation structure		✓
5	Name of Suco	Hatularan						Climate change (decrease of river flow)		
5	Name of Aldeia	Ralan						Others		
6	Observing location of the Grid	Free Intake	✓					Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates							A few in 5 years	
		Pond/Lake/Spring							A few in 10 years	
		Weir							(Contents of damage) Wash out the land	
		Others					Damage to irrigation structure		✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 187144 Y= 9048730				Others			
	Grid reference in Irr. scheme except for above facility	X= 187153 Y= 9048823				Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
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)=				by Rice	US\$/ha as water fee			
		Number of span =			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/1span (m)=				No				
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%			
	/ If Canal→	Length of main	3,000			Decrease	%			
		Width(m) for typical	1.20		a-6) What is					
		Height(m)=	1.50		Gate operation					
	/ If Pond or lake→	Diameter of Pond(m) =			Gate maintenance					
		Depth(m)=			Canal Cleaning					
		Number of Pond =			Canal Rehabilitation					
8	Number of house hold in service area	100			Others					
9	Actual irrigation area (ha)	101			a-7) How often are the meeting held in a year?					
10	Original or planned irrigation area (ha)	50.0			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)				
11	Original constructed year	Before 1970				The WG or WUAs is under establishment. (Expected establishment year)				
		Exact year				Not required to establish (Reason)		✓		
		Rehabilitated year				Already expired (Reason)				
12	Which type of the water source ?	Spring				Others				
		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	✓							
	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		✓	●Evaluation of Irrigation scheme					
		Broken	✓		Shortage of water / Obstruction of water pass(40pts)		Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration	✓		Size of area (10 pts, more than 100ha)			Total Points	60	
		Cannot operate the gate			Evaluation of degree on immediate treatment					
		Cannot keep the water level for some reasons (Details)			* Evaluation criteria					
		Obstruction of sand/stone (sedimentation)	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		High maintenance cost of structure (Annual Cost US\$)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		(Contents of maintenance with high cost)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		others			●Location of Irrigation Scheme					
		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									
Remarks : describe supplemental and/or new information, if any										

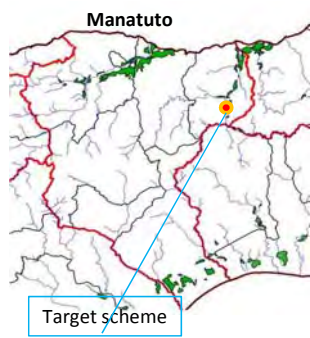

District :

Manatuto

Irrigation scheme :

COROHOCO

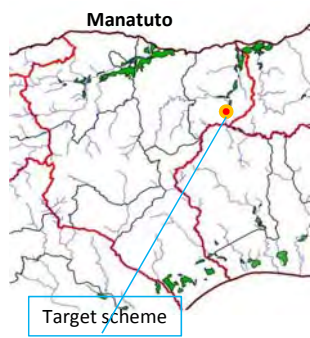

3-a-21TR

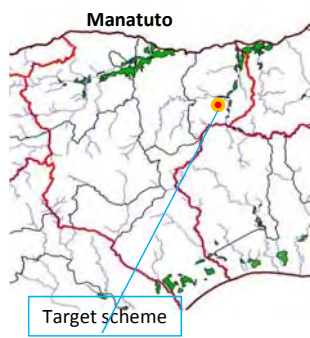

1	No.	21	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	18/2/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	COROHOCO				Not functional of irrigation structure Climate change (decrease of river flow) Others	✓
4	Name of District	Manatuto					
5	Name of Sub-district	Laleia					
6	Name of Suco	CAIRUI					
6	Name of Aldeia	COROHOCO					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	✓		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency) Every year A few in 5 years A few in 10 years	✓
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= Y=	186000 9039992			(Contents of damage) Wash out the land Damage to irrigation structure Others	✓ ✓
6	Grid reference in Irr. scheme except for above facility	X= Y=	186109 9040033			Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	
7	What kind of structure?	Weir			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
7		Intake	✓		a) In case of YES	WUAs	
7		Canal	✓		a-1) What kind of the WG or WUAs ?	Traditional WG Others	✓
7		Pond/Lake			a-2) How many number of WG or WUAs in the irrigation scheme ?		
7		Others			a-3) Name of representative of WG or WUAs		
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=	100.00 0.50 1 1.60		/ 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	
7	/ If Canal→	Length of main Width(m) for typical Height(m)=	2,000 0.70 0.50		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 % % for years % for years	
7	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
8	Number of house hold in service area		20		a-7) How often are the meeting held in a year?		
9	Actual irrigation area (ha)		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	emes are constructed
10	Original or planned irrigation area (ha)		40.0		16	Opinion or request by interviewee	- Structures are washed out in 1975 by flood. - Farmers would like to establish a water users group if irrigation schemes are constructed.
11	Original constructed year	Year's Exact year Rehabilitated year	Before 1970 2010				
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓				
12	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	✓				
12	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	✓ ✓ ✓ ✓ ✓		•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)	
13		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	✓ ✓ ✓ ✓		Size of area (10 pts, more than 100ha)	Total Points	50
13		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			Evaluation of degree on immediate treatment		B
13		Problems on the other facilities			* 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)		
Remarks : describe supplemental and/or new information, if any				•Location of Irrigation Scheme  			

District : **Manatuto**

Irrigation scheme : **MANULIHI LAI(RASPO)**

3-a-22TR

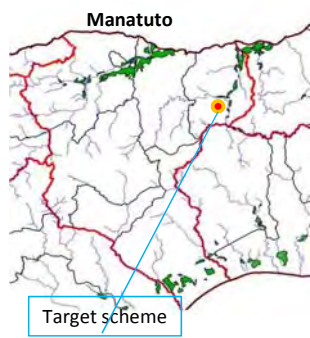

1	No.	22	14		
2	Date of Survey	18/2/2014			
3	Name of Irrigation scheme	MANULIHI LAI(RASPO)			
4	Name of District	Manatuto			
	Name of Sub-district	Laleia			
5	Name of Suco	CAIRUI			
	Name of Aldeia	WAI NUNU			
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>		
		Intake with gates			
		Pond/Lake/Spring			
		Weir			
		Others			
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 189035 Y= 9039070		
	Grid reference in Irr. scheme except for above facility	X= 187856 Y= 9039035			
7	What kind of structure?	Weir			
		Intake	<input checked="" type="checkbox"/>		
		Canal	<input checked="" type="checkbox"/>		
		Pond/Lake			
		Others			
	/ If Weir→	Length(m)=			
		Height(m)=			
		Width/1span (m)=			
		Number of span =			
		Number of gates=			
	/ If Intake→	Length(m)=	200.00		
		Height(m)=	1.00		
		Number of span =	1		
		Width/1span (m)=	1.30		
		Number of gates=			
	/ If Canal→	Length of main	4,000		
		Width(m) for typical	1.20		
		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	60			
9	Actual irrigation area (ha)	23			
10	Original or planned irrigation area (ha)	50.0			
11	Original constructed year	Year's Before 1970			
		Exact year			
		Rehabilitated year	2010		
12	Which type of the water source ?	Spring			
		River Water	<input checked="" type="checkbox"/>		
		Under Ground Water			
		Others			
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)			
		Weir (Wooden)			
		Free intake	<input checked="" type="checkbox"/>		
		Intake with Gates			
		Pond/Lake			
		Canal	<input checked="" type="checkbox"/>		
		Others			
	If respondent select above "☑ Canal", show the type of canal	Concrete			
		Wet Masonry			
		Earth/Soil	<input checked="" type="checkbox"/>		
		Others			
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		<input checked="" type="checkbox"/>	●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 * 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  
		Broken			
		Not functional by deterioration			
		Cannot operate the gate			
		Cannot keep the water level for some reasons (Details)			
		Obstruction of sand/stone (sedimentation)	<input checked="" type="checkbox"/>		
		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				
Remarks : describe supplemental and/or new information, if any					

1	No.	23	14				
2	Date of Survey	5/2/2014		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		
3	Name of Irrigation scheme	ILETI LE'EN					
4	Name of District	Manatuto					
4	Name of Sub-district	Laleia					
5	Name of Suco	CAIRUI					
5	Name of Aldeia	BIABAE					
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any Water Group (WG) or Water User Associations (WUAs) ?	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, transplant, harvest ect) (Reason) Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 185954 Y= 9042819					
	Grid reference in Irr. scheme except for above facility	X= 186090 Y= 9042774					
7	What kind of structure?	Weir <input checked="" type="checkbox"/> Intake <input checked="" type="checkbox"/> Canal <input checked="" type="checkbox"/> Pond/Lake Others					
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=					
	/ If Intake →	Length(m)= 100.00 Height(m)= 0.90 Number of span = 1 Width/1span (m)= 2.00 Number of gates=					
	/ If Canal →	Length of main 5,000 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	60		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
9	Actual irrigation area (ha)	18		a) In case of YES			
10	Original or planned irrigation area (ha)	35.0		a-1) What kind of the WG or WUAs ?			
11	Original constructed year	Before 1970		WUAs Traditional WG Others			
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		a-2) How many number of WG or WUAs in the irrigation scheme ?			
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		a-3) Name of representative of WG or WUAs			
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?			
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		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?			
				Yes No			
				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 % 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?			
				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			
				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.			
				Opinion or request by interviewee			
				- No agricultural activities from 2001 due to no structures.			
				● 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 * 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). C			
				● Location of Irrigation Scheme			
				 			
Remarks : describe supplemental and/or new information, if any							

District : **Manatuto**

Irrigation scheme : **LIA BATE(GOBAOLI)**

3-a-24TR

1	No.	24	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	5/2/2014			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	LIA BATE(GOBAOLI)				A few in 10 years		
4	Name of District	Manatuto				Not functional of irrigation structure		
	Name of Sub-district	Laleia				Climate change (decrease of river flow)		
5	Name of Suco	CAIRUI				Others		
	Name of Aldeia	HATUSILI						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Others					Others	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 185579 Y= 9042092			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
	Grid reference in Irr. scheme except for above facility	X= 186024 Y= 9042313			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	✓	
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Height(m)=			a-3) Name of representative of WG or WUAs			
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No			
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=	100.00			by Rice	US\$/ha as water fee	
		Height(m)=	1.00		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		
		Number of span =	1			No		
		Width/1span (m)=	2.00		/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
		Number of gates=				Decrease	%	
	/ If Canal→	Length of main	3,000		a-6) What is	Gate operation		
		Width(m) for typical	1.20			Gate maintenance		
		Height(m)=	0.70			Canal Cleaning	✓	
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Rehabilitation		
		Depth(m)=				Others		
		Number of Pond =			a-7) How often are the meeting held in a year?			
8	Number of house hold in service area	40			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)	✓	
9	Actual irrigation area (ha)	10				The WG or WUAs is under establishment. (Expected establishment year)	3mes are rehabilitated.	
10	Original or planned irrigation area (ha)	30.0				Not required to establish (Reason)		
11	Original constructed year	Before 1970				Already expired (Reason)		
		Exact year				Others		
		Rehabilitated year	2010		16	Opinion or request by interviewee		
12	Which type of the water source ?	Spring				- Intake is washed out by flood in 2004.		
		River Water	✓			- No agricultural activities because paddy field was washed out by the flood last year.		
		Under Ground Water				- Farmers move to another paddy field.		
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)				- Farmers would like to establish a water users group if irrigation schemes are rehabilitated.		
		Weir (Wooden)						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
	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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal			Evaluation of degree on immediate treatment			
		Broken			* Evaluation criteria			
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/stone (sedimentation)			●Location of Irrigation Scheme			
	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							

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

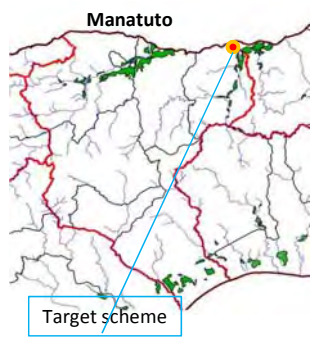

District :

Manatuto

Irrigation scheme :

SEGAT

3-a-26TR

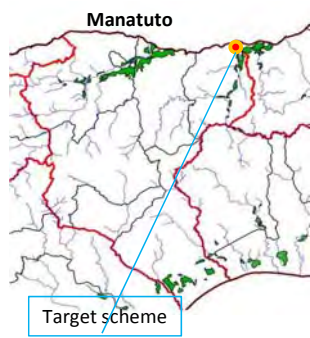

1	No.	26	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	13/1/2014				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	SEGAT					A few in 10 years	
4	Name of District	Manatuto					Not functional of irrigation structure	✓
	Name of Sub-district	Laleia					Climate change (decrease of river flow)	
5	Name of Suco	LIFAU					Others	
	Name of Aldeia	UMA RENTAU						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?		Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 188105 Y= 9054736					Others
	Grid reference in Irr. scheme except for above facility	X= 188109 Y= 9055092				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
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)=	100.00			/ 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				by Rice	US\$/ha as water fee
		Number of span =	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	
		Width/1span (m)=	1.00				No	✓
		Number of gates=	1			/ if respondent select above "✓" Yes", How change of fee?	Increase	%
	/ If Canal→	Length of main	3,000				Decrease	%
		Width(m) for typical	1.50			a-6) What is	Gate operation	
		Height(m)=	1.80				Gate maintenance	
	/ If Pond or lake→	Diameter of Pond(m) =					Canal Cleaning	
		Depth(m)=					Canal Rehabilitation	
		Number of Pond =					Others	
8	Number of house hold in service area	63				a-7) How often are the meeting held in a year?		
9	Actual irrigation area (ha)	79				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)	✓
10	Original or planned irrigation area (ha)	120.0					The WG or WUAs is under establishment. (Expected establishment year)	3mes are rehabilitated.
11	Original constructed year	Before 1970					Not required to establish (Reason)	
	Exact year						Already expired (Reason)	
	Rehabilitated year	2005-2013					Others	
12	Which type of the water source ?	Spring				16	Opinion or request by interviewee	- Farmers would like to establish a water users group if irrigation schemes are rehabilitated.
		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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate		✓				
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others						
		Problems on Canal			Evaluation of degree on immediate treatment			
		Broken			* Evaluation criteria			
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)			●Location of Irrigation Scheme			
		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							

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

District : **Manatuto**

Irrigation scheme : **WE MAMOUT(WE MOUT)**

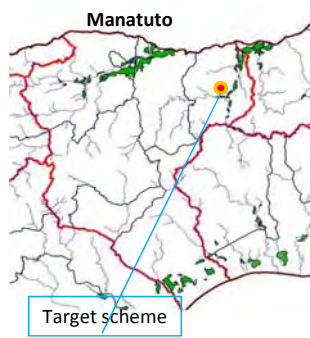
3-a-27TR

1	No.	27	14		
2	Date of Survey	20/2/2014			
3	Name of Irrigation scheme	WE MAMOUT(WE MOUT)			
4	Name of District	Manatuto			
	Name of Sub-district	Laleia			
5	Name of Suco	LIFAU			
	Name of Aldeia	LINAO			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		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
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 187940.17 Y= 9057165.98			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
	Grid reference in Irr. scheme except for above facility	X= 187845 Y= 9057716			Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others
7	What kind of structure?	Weir <input checked="" type="checkbox"/> Intake <input checked="" type="checkbox"/> Canal Pond/Lake Others	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others
	/ If Intake →	Length(m)= 10.00 Height(m)= 1.10 Number of span = 1 Width/1span (m)= 1.70 Number of gates=		a-1) What kind of the WG or WUAs ?	
	/ If Canal →	Length of main 2,000 Width(m) for typical 1.20 Height(m)= 0.50		a-2) How many number of WG or WUAs in the irrigation scheme ?	
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-3) Name of representative of WG or WUAs	
8	Number of house hold in service area	0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No
9	Actual irrigation area (ha)	40		/ 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
10	Original or planned irrigation area (ha)	0.0		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 No % for years Decrease % for years
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		a-7) How often are the meeting held in a year?	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		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
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others	16	Opinion or request by interviewee	- Scheme was washed out in 1974 by flood.
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					

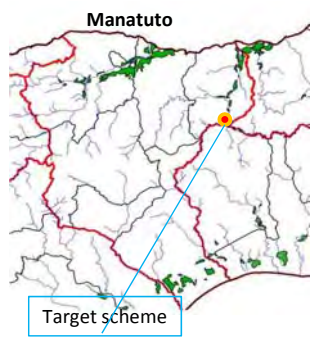

1	No.	28	14										
2	Date of Survey	7/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓					
3	Name of Irrigation scheme	HATOBU				Flood Damage to irrigation scheme (Frequency)	A few in 5 years						
4	Name of District	Manatuto					(Cause or Reason)	A few in 10 years					
	Name of Sub-district	Laleia						Not functional of irrigation structure			✓		
5	Name of Suco	CAIRUI						Climate change (decrease of river flow)					
	Name of Aldeia	RAI MEAN						Others					
6	Observing location of the Grid	Free Intake						(Contents of damage)	Wash out the land			✓	
		Intake with gates	✓						Damage to irrigation structure			✓	
		Pond/Lake/Spring							Others				
		Weir							Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
	Others		Others										
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 185649 Y= 9046969										
	Grid reference in Irr. scheme except for above facility	X= 185810 Y= 9047224											
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 ?									
		Others		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?									
	/ If Intake→	Length(m)=	5.00	Yes									
		Height(m)=	2.00	No									
		Number of span =	3	/ if respondent select above "✓" Yes", which way do farmers pay the above fee?									
		Width/1span (m)=	1.00										
		Number of gates=	1	by Cash									
	/ If Canal→	Length of main	200	US\$/HH as member ship fee									
		Width(m) for typical	1.00	US\$/ha as water fee									
		Height(m)=	2.00	by Rice									
	/ If Pond or lake→	Diameter of Pond(m) =		kg/HH as member ship fee									
		Depth(m)=		kg/ha as water fee									
		Number of Pond =		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?									
8	Number of house hold in service area	150		Yes									
9	Actual irrigation area (ha)	42		No									
10	Original or planned irrigation area (ha)	100.0		%									
11	Original constructed year	Year's	Before 1970	/ if respondent select above "✓" Yes", How change of fee?									
		Exact year											
		Rehabilitated year	2010-2013										
12	Which type of the water source ?	Spring		a-6) What is									
		River Water	✓										
		Under Ground Water											
		Others											
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			Gate operation								
		Weir (Wooden)											
		Free intake	✓		Gate maintenance								
		Intake with Gates	✓										
		Pond/Lake			Canal Cleaning								
		Canal	✓										
Others			Canal Rehabilitation										
Concrete	✓							Others					
Wet Masonry			a-7) How often are the meeting held in a year?										
Earth/Soil	✓							The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)					
Others			The WG or WUAs is under establishment. (Expected establishment year)										
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		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.									
		Broken		✓	Not required to establish (Reason)								
		Not functional by deterioration											
		Cannot operate the gate		✓	Already expired (Reason)								
		Cannot keep the water level for some reasons (Details)											
		Obstruction of sand/stone (sedimentation)		✓	Others								
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		✓									
		others			Opinion or request by interviewee								
		Problems on Canal		✓									
		Broken		✓	The WG or WUAs is under establishment. (Expected establishment year)								
Not functional by deterioration													
Cannot operate the gate			Not required to establish (Reason)										
Cannot flow the water for some reasons (Details)													
Obstruction of sand/Stone (sedimentation)			Already expired (Reason)										
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)													
Others			Others										
Problems on Pond/Lake													
Broken			Opinion or request by interviewee										
Not functional by deterioration													
Cannot operate the outlet gate			The WG or WUAs is under establishment. (Expected establishment year)										
Cannot keep the water in pond for some reasons (Details)													
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Not required to establish (Reason)										
Others													
Problems on the other facilities			Already expired (Reason)										

●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

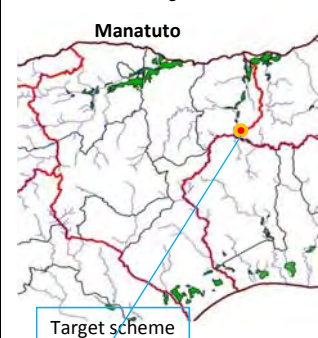

1	No.	30	14							
2	Date of Survey	18/2/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year	✓			
3	Name of Irrigation scheme	HATUMADA					A few in 5 years			
4	Name of District	Manatuto					(Cause or Reason)	Not functional of irrigation structure	✓	
4	Name of Sub-district	Laleia					Climate change (decrease of river flow)			
5	Name of Suco	CAIRUI					Others			
5	Name of Aldeia	RAI MEAN					Flood Damage to irrigation scheme (Frequency)	Every year	✓	
6	Observing location of the Grid	Free Intake	✓					A few in 5 years		
		Intake with gates						A few in 10 years		
		Pond/Lake/Spring						(Contents of damage)	Wash out the land	✓
		Weir						Damage to irrigation structure	✓	
		Others				Others				
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 186000 Y= 9039992			Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
	Grid reference in Irr. scheme except for above facility	X= 186109 Y= 9040033			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)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Others					
		/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?					
		/ If Canal→	Length of main Width(m) for typical Height(m)=		a-3) Name of representative of WG or WUAs					
		/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No				
8	Number of house hold in service area	0			/ 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				
9	Actual irrigation area (ha)	2			by Rice kg/HH as member ship fee kg/ha as water fee					
10	Original or planned irrigation area (ha)	0.0			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 No				
11	Original constructed year	Before 1970			/ if respondent select above "✓ Yes", How change of fee?	Increase % for years Decrease % for years				
12	Which type of the water source ?	Spring			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others				
		River Water	✓		a-7) How often are the meeting held in a year?					
		Under Ground Water				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			
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			16	Opinion or request by interviewee	- Scheme was washed out in 1975 by flood.			
		Weir (Wooden)								
		Free intake								
		Intake with Gates								
		Pond/Lake								
	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		✓	●Evaluation of Irrigation scheme					
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration							Size of area (10 pts, more than 100ha)	Total Points
		Cannot operate the gate			Evaluation of degree on immediate treatment					
		Cannot keep the water level for some reasons (Details)			* Evaluation criteria					
		Obstruction of sand/stone (sedimentation)			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		High maintenance cost of structure (Annual Cost US\$)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		others (Contents of maintenance with high cost)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Problems on Canal		✓	●Location of Irrigation Scheme					
		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\$)								
		others (Contents of maintenance with high cost)								
		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\$)									
	others (Contents of maintenance with high cost)									
	Problems on the other facilities									
Remarks : describe supplemental and/or new information, if any										

1	No.	31	14					
2	Date of Survey	18/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		✓	
3	Name of Irrigation scheme	BOBOSU'U			A few in 5 years			✓
4	Name of District	MANATUTO			A few in 10 years			
4	Name of Sub-district	Laleia			Not functional of irrigation structure			✓
5	Name of Suco	CAIRUI			Climate change (decrease of river flow)			
5	Name of Aldeia	BIABAE			Others			
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= 187681 Y= 9039517					
	Grid reference in Irr. scheme except for above facility	X= 187413 Y= 9039589						
7	What kind of structure?	Weir			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		
		Intake	✓	Yes				
		Canal	✓	No				
		Pond/Lake						
		Others						
	/ If Weir→	Length(m)=		a) In case of YES				
		Height(m)=		a-1) What kind of the WG or WUAs ?				
		Width/1span (m)=		WUAs				
		Number of span =		Traditional WG				
		Number of gates=		Others				
	/ If Intake→	Length(m)=	100.00	a-2) How many number of WG or WUAs in the irrigation scheme ?				
		Height(m)=	1.10	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?				
		Width/1span (m)=	1.50	Yes				
		Number of gates=		No				
	/ If Canal→	Length of main	2,000	/ if respondent select above "✓" Yes", which way do farmers pay the above fee?				
		Width(m) for typical	1.00	by Cash				
		Height(m)=	1.00	US\$/HH as member ship fee				
	/ If Pond or lake→	Diameter of Pond(m) =		by Rice				
		Depth(m)=		kg/HH as member ship fee				
		Number of Pond =		kg/ha as water fee				
8	Number of house hold in service area	40		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?				
9	Actual irrigation area (ha)	11		Yes				
10	Original or planned irrigation area (ha)	60.0		No				
11	Original constructed year	Before 1970		/ if respondent select above "✓" Yes", How change of fee?				
		Exact year		Increase				
		Rehabilitated year	2010	% for years				
				Decrease				
				% for years				
12	Which type of the water source ?	Spring		a-6) What is				
		River Water	✓	Gate operation				
		Under Ground Water		Gate maintenance				
		Others		Canal Cleaning				
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)		Canal Rehabilitation				
		Weir (Wooden)		Others				
		Free intake	✓	a-7) How often are the meeting held in a year?				
		Intake with Gates		The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)				
		Pond/Lake		The WG or WUAs is under establishment.				
		Canal	✓	(Expected establishment year)				
		Others		Not required to establish (Reason)				
	If respondent select above "✓ Canal", show the type of canal	Concrete		Already expired (Reason)				
		Wet Masonry		Others				
		Earth/Soil	✓					
		Others						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		16				Opinion or request by interviewee - Farmers request the construction of Irrigation facilities - Farmers would like to establish a water users group if irrigation schemes are constructed.
		Broken		Opinion or request by interviewee				
		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							

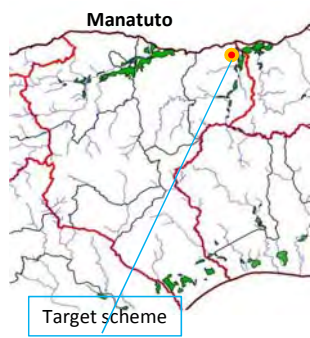

●Evaluation of Irrigation scheme

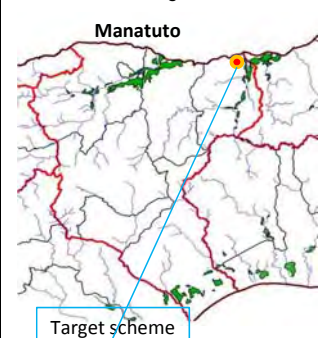

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	0
Evaluation of degree on immediate treatment			C
* Evaluation criteria A: 100 pt to 70 pt (Scheme 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

1	No.	32	14						
2	Date of Survey	16/1/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year				
3	Name of Irrigation scheme	SANTO			A few in 5 years				
4	Name of District	MANATUTO			A few in 10 years				
4	Name of Sub-district	Laleia			Not functional of irrigation structure				
5	Name of Suco	LIFAU			Climate change (decrease of river flow)				
5	Name of Aldeia	UMA RENTAU			Others				
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=		188090.03				
	Y=	9054780.34							
	Grid reference in Irr. scheme except for above facility	X=	187941						
	Y=	9056590							
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	1.00						
		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	30							
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	1980						
12	Which type of the water source ?	Spring							
		River Water	✓						
		Under Ground Water							
		Others	- Water is supplied from Segat						
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)							
		Weir (Wooden)							
		Free intake							
		Intake with Gates							
		Pond/Lake							
		Canal	✓						
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		✓	● Evaluation of Irrigation scheme				
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration		✓					
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	40	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		✓	Evaluation of degree on immediate treatment				
		others			* 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)				
		Problems on Canal			● Location of Irrigation Scheme				
		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									
Remarks : describe supplemental and/or new information, if any									

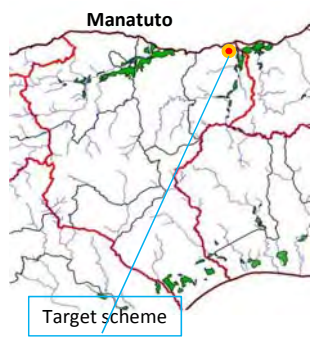

1	No.	33	14											
2	Date of Survey	14/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓						
3	Name of Irrigation scheme	MAU RAIN				Flood Damage to irrigation scheme (Frequency)	A few in 5 years							
4	Name of District	MANATUTO					(Cause or Reason)	A few in 10 years						
4	Name of Sub-district	Laleia						Not functional of irrigation structure			✓			
5	Name of Suco	LIFAU						Climate change (decrease of river flow)						
5	Name of Aldeia	UMA RENTAU						Others						
6	Observing location of the Grid	Free Intake						(Contents of damage)	Wash out the land			✓		
		Intake with gates							Damage to irrigation structure			✓		
		Pond/Lake/Spring							Others					
		Weir							Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 187959 Y= 9057245		Others										
	Grid reference in Irr. scheme except for above facility	X= 187941 Y= 9057291												
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 ?										
		Others		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?										
	/ If Intake→	Length(m)=		Yes										
		Height(m)=		No										
		Number of span =		/ if respondent select above "✓ Yes", which way do farmers pay the above fee?										
		Width/1span (m)=		by Cash										
		Number of gates=		US\$/HH as member ship fee										
	/ If Canal→	Length of main	3,000	US\$/ha as water fee										
		Width(m) for typical	1.80	by Rice										
		Height(m)=	0.50	kg/HH as member ship fee										
	/ If Pond or lake→	Diameter of Pond(m) =		kg/ha as water fee										
		Depth(m)=		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?										
		Number of Pond =		Yes										
				No										
				/ if respondent select above "✓ Yes", How change of fee?										
				Increase										
				% for years										
				Decrease										
				% for years										
8	Number of house hold in service area	150		a-6) What is										
9	Actual irrigation area (ha)	include*27		Gate operation										
10	Original or planned irrigation area (ha)	100.0		Gate maintenance										
11	Original constructed year	Year's	Before 1970	Canal Cleaning										
		Exact year		Canal Rehabilitation										
		Rehabilitated year	2003	Others										
12	Which type of the water source ?	Spring		a-7) How often are the meeting held in a year?										
		River Water	✓	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)										
		Under Ground Water		The WG or WUAs is under establishment.										
		Others		(Expected establishment year)										
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			Not required to establish (Reason)									
		Weir (Wooden)			Already expired (Reason)									
		Free intake	✓		Others									
		Intake with Gates			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.									
		Pond/Lake			- Scheme is destroyed in 1975 and there are no agricultural activities for 30 years.									
		Canal	✓		- Farmers claim to the GOV. to make them do the agriculture activity again.									
If respondent select above "✓ Canal", show the type of canal	Concrete			- Farmers would like to establish a water users group if irrigation schemes are constructed.										
	Wet Masonry			Opinion or request by interviewee										
	Earth/Soil	✓												
	Others													
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	●Evaluation of Irrigation scheme									
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)									
		Not functional by deterioration		✓	Problem of intake and keeping water level(20pts)		Damage of structure(20pts)		Flood effect(10pts)					
		Cannot operate the gate			●		●		●					
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points		60					
		Obstruction of sand/stone (sedimentation)		✓	Evaluation of degree on immediate treatment									
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		✓	* Evaluation criteria									
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)									
		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)									
		Broken		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)									
		Not functional by deterioration		✓	●Location of Irrigation Scheme									
		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														
Remarks : describe supplemental and/or new information, if any														

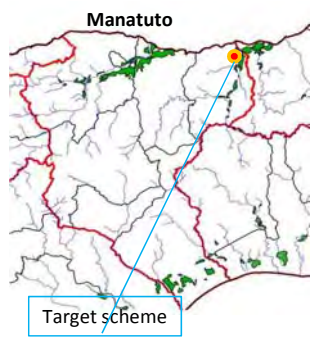

District : **MANATUTO**

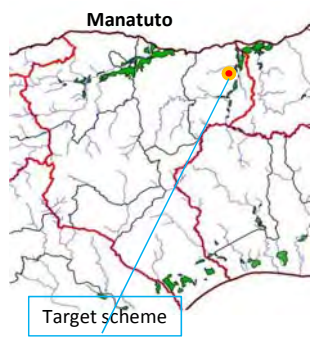

Irrigation scheme : **WE TIRAN**

WE TIRAN

3-a-34TR

1	No.	34	14					
2	Date of Survey	20/2/2014		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			
3	Name of Irrigation scheme	WE TIRAN						
4	Name of District	MANATUTO						
4	Name of Sub-district	Laleia						
5	Name of Suco	HATURALAN						
5	Name of Aldeia	BEBORO						
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	<input checked="" type="checkbox"/>	
		Intake with gates				No		
		Pond/Lake/Spring				a) In case of YES		
		Weir				a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	
		Others				a-2) How many number of WG or WUAs in the irrigation scheme ?		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 187958.47 Y= 9057197.69			a-3) Name of representative of WG or WUAs		
	Grid reference in Irr. scheme except for above facility	X= 187538 Y= 9058073	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No				
7	What kind of structure?	Weir	<input checked="" type="checkbox"/>					
		Intake	<input checked="" type="checkbox"/>					
		Canal	<input checked="" type="checkbox"/>					
		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)=	0.30					
		Number of span =	1					
		Width/1span (m)=	1.20					
		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	0						
9	Actual irrigation area (ha)	include*27						
10	Original or planned irrigation area (ha)	0.0						
11	Original constructed year	Year's Before 1970						
		Exact year						
		Rehabilitated year						
12	Which type of the water source ?	Spring						
		River Water	<input checked="" type="checkbox"/>					
		Under Ground Water						
		Others						
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)						
		Weir (Wooden)						
		Free intake	<input checked="" type="checkbox"/>					
		Intake with Gates						
		Pond/Lake						
		Canal						
	If respondent select above "☑ Canal", show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	<input checked="" type="checkbox"/>					
		Others						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		<input checked="" type="checkbox"/>	●Evaluation of Irrigation scheme			
		Broken		<input checked="" type="checkbox"/>	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	40
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal		<input checked="" type="checkbox"/>	* 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)			
		Broken		<input checked="" type="checkbox"/>	●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

1	No.	35	14				
2	Date of Survey	6/2/2014		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		
3	Name of Irrigation scheme	ALE'EN					
4	Name of District	MANATUTO					
4	Name of Sub-district	Laleia					
5	Name of Suco	HATULARAN					
5	Name of Aldeia	UMA IUKWE BORO					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any Water Group (WG) or Water User Associations (WUAs) ?	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, transplant, harvest ect) (Reason) Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 188251 Y= 9054373					
	Grid reference in Irr. scheme except for above facility	X= 188870 Y= 9056174					
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 1.70 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		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	
9	Actual irrigation area (ha)	199		a) In case of YES			
10	Original or planned irrigation area (ha)	100.0		a-1) What kind of the WG or WUAs ?			
11	Original constructed year	Year's	Before 1970	WUAs			
		Exact year		Traditional WG			
		Rehabilitated year		Others			
12	Which type of the water source ?	Spring		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		River Water		a-3) Name of representative of WG or WUAs			
		Under Ground Water		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?			
		Others		Yes No			
12	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)		/ if respondent select above "Yes", which way do farmers pay the above fee?			
		Weir (Wooden)		by Cash US\$/HH as member ship fee US\$/ha as water fee			
		Free intake		by Rice kg/HH as member ship fee kg/ha as water fee			
		Intake with 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 ?			
12	If respondent select above "Canal", show the type of canal	Pond/Lake		/ if respondent select above "Yes", How change of fee?			
		Canal		Increase % for years			
		Others		Decrease % for years			
13	What's kind of problem for the structure or facility, and reason of problem ?	Concrete		a-6) What is			
		Wet Masonry		Gate operation			
		Earth/Soil		Gate maintenance			
		Others		Canal Cleaning			
13	Problems on Weir or Intake	Broken		Canal Rehabilitation			
		Not functional by deterioration		Others			
		Cannot operate the gate		a-7) How often are the meeting held in a year?			
		Cannot keep the water level for some reasons (Details)		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			
13	Problems on Canal	Obstruction of sand/stone (sedimentation)		Opinion or request by interviewee			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		- Paddy field was destroyed 6 years ago by flood and heavy rain. - Farmers move to other irrigation scheme.			
		others					
13	Problems on Pond/Lake	Broken		● Evaluation of Irrigation scheme			
		Not functional by deterioration		Shortage of water / Obstruction of water pass(40pts)			
		Cannot operate the outlet gate		Problem of intake and keeping water level(20pts)			
		Cannot keep the water in pond for some reasons (Details)		Damage of structure(20pts)			
13	Problems on the other facilities	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		Flood effect(10pts)			
		others		Size of area (10 pts, more than 100ha)			
				Total Points			
				60			
Remarks : describe supplemental and/or new information, if any				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			
				 			

1	No.	36	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	WE NOREN UBUS				A few in 10 years		
4	Name of District	MANATUTO				Not functional of irrigation structure	✓	
	Name of Sub-district	MANATUTO				Climate change (decrease of river flow)	✓	
5	Name of Suco	HATURALAN				Others		
	Name of Aldeia	UMA FUK						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 188164 Y= 9051505				Others	
	Grid reference in Irr. scheme except for above facility	X= 188064 Y= 9051784			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		✓	
					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		
						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	
						by Rice	US\$/ha as water fee	
						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	%	
						Decrease	%	
						for years		
						for years		
8	Number of house hold in service area	50			a-6) What is	Gate operation		
9	Actual irrigation area (ha)	2				Gate maintenance		
10	Original or planned irrigation area (ha)	60.0				Canal Cleaning		
						Canal Rehabilitation		
11	Original constructed year	Before 1970				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year	2010					
12	Which type of the water source ?	Spring		16	Opinion or request by interviewee	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			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.	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)			- Facility was washed out in 2010. - Farmers would like to establish a water users group if irrigation schemes are rehabilitated. - Farmers need guidances to establish a water users group again.		
			Free intake	✓				
			Intake with Gates					
			Pond/Lake					
		Canal	✓					
	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		✓	●Evaluation of Irrigation scheme			
			Broken	✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
			Not functional by deterioration					
			Cannot operate the gate					
			Cannot keep the water level for some reasons (Details)					
			Obstruction of sand/stone (sedimentation)	✓	Size of area (10 pts, more than 100ha)		Total Points	50
			High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					
			others		Evaluation of degree on immediate treatment			
			Problems on Canal	✓	* Evaluation criteria			
			Broken	✓	A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
			Not functional by deterioration		B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
			Cannot operate the gate		C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
			Cannot flow the water for some reasons (Details)		●Location of Irrigation Scheme			
			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						
Remarks : describe supplemental and/or new information, if any								

District : **MANATUTO**

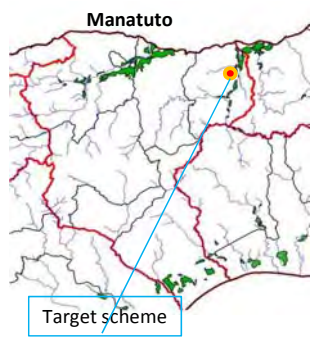

Irrigation scheme :

WE NOREN AHAK

3-a-37TR

1	No.	37	14				
2	Date of Survey	5/2/2014		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		
3	Name of Irrigation scheme	WE NOREN AHAK			A few in 5 years		
4	Name of District	MANATUTO			A few in 10 years		
5	Name of Sub-district	LALEIA			Not functional of irrigation structure		
6	Name of Suco	HATURALAN			Climate change (decrease of river flow)		
6	Name of Aldeia	UMA KLALANUMA IUK			Others		
6	Observing location of the Grid	Free Intake			✓		
6		Intake with gates					
6		Pond/Lake/Spring					
6		Weir					
6	Grid reference at Intake/Pond/Lake/Spring/pump	X=	187771.72				
6		Y=	9052649.22				
6	Grid reference in Irr. scheme except for above facility	X=	187685				
6		Y=	9053356				
7	What kind of structure?	Weir					
7	/ If Weir→	Intake		✓			
7		Canal		✓			
7		Pond/Lake					
7		Others					
7	/ If Intake→	Length(m)=					
7		Height(m)=					
7		Width/1span (m)=					
7		Number of span =					
7	/ If Canal→	Number of gates=					
7		Length of main	2,000				
7		Width(m) for typical	1.40				
7		Height(m)=	0.70				
7	/ If Pond or lake→	Diameter of Pond(m) =					
7		Depth(m)=					
7	Number of Pond =						
8	Number of house hold in service area	100					
9	Actual irrigation area (ha)	38					
10	Original or planned irrigation area (ha)	150.0					
11	Original constructed year	Before 1970					
11	Exact year	Year's					
11		Rehabilitated year					
11							
12	Which type of the water source ?	Spring					
12	If respondent select above "river water", show the type of irrigation facility	River Water		✓			
12		Under Ground Water					
12		Others					
12		Weir (concrete)					
12	If respondent select above "Canal", show the type of canal	Weir (Wooden)					
12		Free intake		✓			
12		Intake with Gates					
12		Pond/Lake					
12	Concrete	Canal		✓			
12		Others					
12		Earth/Soil					
12		Others					
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓				
13	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	Broken		✓			
13		Not functional by deterioration					
13		Cannot operate the gate					
13		Cannot keep the water level for some reasons (Details)					
13		Obstruction of sand/stone (sedimentation)		✓			
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					
13		others					
13		Broken					
13		Not functional by deterioration					
13		Cannot operate the gate					
13		Cannot flow the water for some reasons (Details)					
13		Obstruction of sand/Stone (sedimentation)					
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					
13		Others					
13	Broken						
13	Not functional by deterioration						
13	Cannot operate the outlet gate						
13	Cannot keep the water in pond for some reasons (Details)						
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13	Others						
13	Problems on the other facilities						
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes		✓			
15	No						
15	a) In case of YES	WUAs					
15	a-1) What kind of the WG or WUAs ?	Traditional WG		✓			
15	Others						
15	a-2) How many number of WG or WUAs in the irrigation scheme ?						
15	a-3) Name of representative of WG or WUAs						
15	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes					
15	No						
15	/ if respondent select above "Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee				
15		by Rice	US\$/ha as water fee				
15	/ if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/HH as member ship fee					
15		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					
15	No						
15	/ if respondent select above "Yes", How change of fee?	Increase	%				
15		Decrease	%				
15	for years						
15							
15	a-6) What is	Gate operation					
15	Gate maintenance						
15	Canal Cleaning					✓	
15	Canal Rehabilitation						
15	Others						
15	a-7) How often are the meeting held in a year?						
15	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)				✓	
15	The WG or WUAs is under establishment. (Expected establishment year)					emes are constructed	
15	Not required to establish (Reason)						
15	Already expired (Reason)						
15	Others						
16	Opinion or request by interviewee	- Paddy field and intake were washed out by flood in 2004. - Farmers would like to establish a water users group if irrigation schemes are constructed. - Farmers move to other irrigation scheme.					
16	•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)		
16	Size of area (10 pts, more than 100ha)						
16	Total Points					50	
16	Evaluation of degree on immediate treatment					B	
16	* Evaluation criteria						
16	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
16	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
16	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
16	●Location of Irrigation Scheme						
16	Manatuto						
16	Target scheme						
16							

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

1	No.	38	14								
2	Date of Survey	15/1/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	BOLUTO				(Cause or Reason)	Not functional of irrigation structure				
4	Name of District	MANATUTO					Climate change (decrease of river flow)				
4	Name of Sub-district	LALEIA					Others				
5	Name of Suco	Hatularan				Flood Damage to irrigation scheme (Frequency)	Every year		✓		
5	Name of Aldeia	Ralan						A few in 5 years			
6	Observing location of the Grid	Free Intake	✓					A few in 10 years			
		Intake with gates						(Contents of damage)	Wash out the land		✓
		Pond/Lake/Spring							Damage to irrigation structure		✓
		Weir							Others		
		Others					Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 188257 Y= 9052078			Others						
	Grid reference in Irr. scheme except for above facility	X= 188486 Y= 9052902									
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		✓			
						Others					
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1			
		Height(m)=			a-3) Name of representative of WG or WUAs			Same as contact person			
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes					
		Number of span =			No			✓			
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee				
	/ If Intake→	Length(m)=	3,000.00			by Rice	US\$/ha as water fee				
		Height(m)=	1.00		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					
		Number of span =	1			No					
		Width/1span (m)=	0.90		/ if respondent select above "✓" Yes", How change of fee?	Increase	%				
		Number of gates=	0			Decrease	%				
	/ If Canal→	Length of main	3,000		a-6) What is						
		Width(m) for typical	1.50		Gate operation						
		Height(m)=	1.00		Gate maintenance						
	/ If Pond or lake→	Diameter of Pond(m) =			Canal Cleaning			✓			
		Depth(m)=			Canal Rehabilitation						
		Number of Pond =			Others						
8	Number of house hold in service area	13			a-7) How often are the meeting held in a year?						
9	Actual irrigation area (ha)	include*35*			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)					
10	Original or planned irrigation area (ha)	50.0				The WG or WUAs is under establishment. (Expected establishment year)					
11	Original constructed year	Before 1970				Not required to establish (Reason)					
		Exact year				Already expired (Reason)					
		Rehabilitated year				Others					
12	Which type of the water source ?	Spring			16	Opinion or request by interviewee					
		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		✓	●Evaluation of Irrigation scheme						
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
		Not functional by deterioration									
		Cannot operate the gate									
		Cannot keep the water level for some reasons (Details)									
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	60			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)									
		others			Evaluation of degree on immediate treatment						
		Problems on Canal			* Evaluation criteria						
		Broken			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
		Not functional by deterioration			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
		Cannot operate the gate			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
		Cannot flow the water for some reasons (Details)			●Location of Irrigation Scheme						
		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										

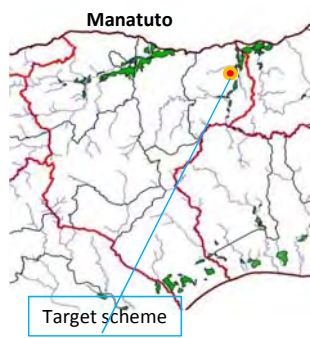

Remarks : describe supplemental and/or new information, if any

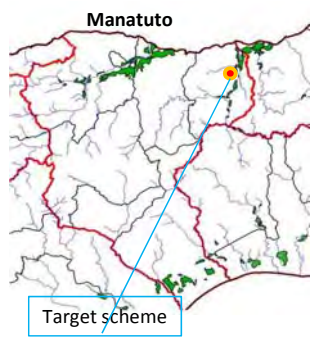

District : **MANATUTO**

Irrigation scheme :

MATO

3-a-39TR

1	No.	39	14						
2	Date of Survey	20/1/2014		Is there any major problems in the scheme ? Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "☑ Yes", which way do farmers pay the above 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 ? / if respondent select above "☑ Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee	Shortage of Irrigation Water (Frequency)	Every year A few in 5 years A few in 10 years	✓ ✓		
3	Name of Irrigation scheme	MATO			(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others			
4	Name of District	MANATUTO			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	✓ ✓		
5	Name of Suco	LIFAU			(Contents of damage)	Wash out the land Damage to irrigation structure Others	✓ ✓		
6	Name of Aldeia	UMA KLALAN			Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
6	Observing location of the Grid	Free Intake	✓		15 a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "☑ Yes", which way do farmers pay the above 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 ? / if respondent select above "☑ Yes", How change of fee? a-6) What is 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. 16 Opinion or request by interviewee				
		Intake with gates							
		Pond/Lake/Spring							
		Weir							
		Others							
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	188296.45						
		Y=	905205.64						
	Grid reference in Irr. scheme except for above facility	X=	188982						
		Y=	9055010						
	7	What kind of structure?	Weir						
8	Number of house hold in service area	Intake	✓						
		Canal	✓						
		Pond/Lake							
		Others							
		/ If Weir→	Length(m)=						
			Height(m)=						
			Width/1span (m)=						
			Number of span =						
			Number of gates=						
		/ If Intake→	Length(m)=	200.00					
	Height(m)=	1.00							
	Number of span =	1							
	Width/1span (m)=	1.60							
	Number of gates=	0							
/ If Canal→	Length of main	4,000							
	Width(m) for typical	1.50							
	Height(m)=	1.00							
/ If Pond or lake→	Diameter of Pond(m) =								
	Depth(m)=								
	Number of Pond =								
9	Actual irrigation area (ha)	include 35'							
10	Original or planned irrigation area (ha)	150.0							
11	Original constructed year	Year's	Before 1970						
		Exact year							
		Rehabilitated year	1994						
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	✓						
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		✓	● Evaluation of Irrigation scheme				
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	60	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
		others							
		Problems on Canal			Evaluation of degree on immediate treatment				
		Broken			* Evaluation criteria				
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Obstruction of sand/Stone (sedimentation)			● Location of Irrigation Scheme				
		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									
Remarks : describe supplemental and/or new information, if any									

1	No.	40	14								
2	Date of Survey	20/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	LALOSAN					(Cause or Reason)	A few in 5 years		✓	
4	Name of District	MANATUTO						A few in 10 years			
4	Name of Sub-district	LALEIA						Not functional of irrigation structure			
5	Name of Suco	HATULARAN						Climate change (decrease of river flow)			
5	Name of Aldeia	RALAN						Others			
6	Observing location of the Grid	Free Intake	✓				Flood Damage to irrigation scheme (Frequency)	Every year		✓	
		Intake with gates						A few in 5 years		✓	
		Pond/Lake/Spring						A few in 10 years			
		Weir									
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	188306.8					(Contents of damage)	Wash out the land		✓
		Y=	9052149.25						Damage to irrigation structure		✓
Grid reference in Irr. scheme except for above facility	X=	188585					Others				
	Y=	9053499					Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
6	Others				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						
		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)=	7.00		/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee				
		Height(m)=	0.70			by Rice	US\$/ha as water fee				
		Number of span =	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					
		Width/1span (m)=	4.00		No			✓			
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%				
	/ If Canal→	Length of main	2,000			Decrease	%				
		Width(m) for typical	1.00		a-6) What is	Gate operation					
		Height(m)=	0.90			Gate maintenance					
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Cleaning		✓			
		Depth(m)=				Canal Rehabilitation					
		Number of Pond =				Others					
8	Number of house hold in service area	21			a-7) How often are the meeting held in a year?						
9	Actual irrigation area (ha)	include* 35'			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)		✓			
10	Original or planned irrigation area (ha)	24.0				The WG or WUAs is under establishment. (Expected establishment year)		emes are constructed.			
11	Original constructed year	Before 1970				Not required to establish (Reason)					
		Exact year				Already expired (Reason)					
		Rehabilitated year				Others					
12	Which type of the water source ?	Spring			16	Opinion or request by interviewee		- Farmers would like to establish a water users group if irrigation schemes are constructed.			
		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		✓	●Evaluation of Irrigation scheme						
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
		Not functional by deterioration									
		Cannot operate the gate									
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points	60			
		Obstruction of sand/stone (sedimentation)		✓							
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Evaluation of degree on immediate treatment						
		others			* Evaluation criteria						
		Problems on Canal			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
		Broken			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
		Not functional by deterioration			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
		Cannot operate the gate			●Location of Irrigation Scheme						
		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											

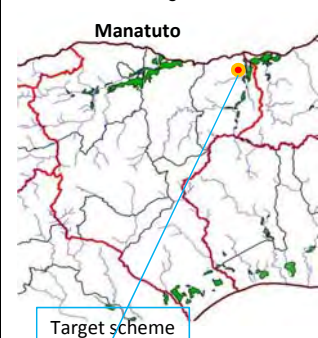
Remarks : describe supplemental and/or new information, if any

District : **MANATUTO**

Irrigation scheme :

ANA KIAK

3-a-41TR

1	No.	41	14							
2	Date of Survey	4/2/2014		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓		
3	Name of Irrigation scheme	ANA KIAK				(Cause or Reason)	A few in 5 years			
4	Name of District	MANATUTO				Not functional of irrigation structure	A few in 10 years		✓	
	Name of Sub-district	LALEIA				Climate change (decrease of river flow)				
5	Name of Suco	LIFAU				Others				
	Name of Aldeia	LINAO								
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year		✓	
		Intake with gates					A few in 5 years			
		Pond/Lake/Spring					A few in 10 years			
		Weir					(Contents of damage)	Wash out the land		✓
		Others		Damage to irrigation structure				✓		
		Others		Others						
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 188092.51 Y= 9054812.15		Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others					
	Grid reference in Irr. scheme except for above facility	X= 188151 Y= 9055245								
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			✓			
		Others		Others						
	/ If Weir→	Length(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?						
		Height(m)=		a-3) Name of representative of WG or WUAs						
		Width/1span (m)=		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes					
		Number of span =		No						
		Number of gates=		/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee				
	/ If Intake→	Length(m)=		by Rice	US\$/ha as water fee					
		Height(m)=			kg/HH as member ship fee					
		Number of span =		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/1span (m)=		No						
		Number of gates=		Increase	%					
	/ If Canal→	Length of main	2,000	/ if respondent select above "✓" Yes", How change of fee?	for years					
		Width(m) for typical	1.00	Decrease	%					
		Height(m)=	0.90		for years					
	/ If Pond or lake→	Diameter of Pond(m) =		a-6) What is	Gate operation					
		Depth(m)=		Gate maintenance						
		Number of Pond =		Canal Cleaning			✓			
8	Number of house hold in service area	27		Canal Rehabilitation						
9	Actual irrigation area (ha)	include* 26'		Others						
10	Original or planned irrigation area (ha)	50.0		a-7) How often are the meeting held in a year?						
11	Original constructed year	1970s		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)		✓ emes are constructed.			
		Exact year			The WG or WUAs is under establishment. (Expected establishment year)					
		Rehabilitated year			Not required to establish (Reason)					
12	Which type of the water source ?	Spring			Already expired (Reason)					
		River Water	✓		Others					
		Under Ground Water								
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)		16	Opinion or request by interviewee	- Farmers have not cultivated the paddy field for 5 years.				
		Weir (Wooden)				- Intake was destroyed and water is supplied from Segat Irrigation Scheme.				
		Free intake	✓			- Farmers would like to establish a water users group if irrigation schemes are constructed.				
		Intake with Gates								
		Pond/Lake								
		Canal	✓							
	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		✓	●Evaluation of Irrigation scheme					
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration							Size of area (10 pts, more than 100ha)	Total Points
		Cannot operate the gate			Evaluation of degree on immediate treatment					
		Cannot keep the water level for some reasons (Details)			* Evaluation criteria					
		Obstruction of sand/stone (sedimentation)		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		High maintenance cost of structure (Annual Cost US\$)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		(Contents of maintenance with high cost)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		others			●Location of Irrigation Scheme					
		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									
Remarks : describe supplemental and/or new information, if any										

1	No.	42	14				
2	Date of Survey	17/12/2013		Is there any major problems in the scheme ? Shortage of Irrigation Water (Frequency) (Cause or Reason) Flood Damage to irrigation scheme (Frequency) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Every year		
3	Name of Irrigation scheme	MABELEN			A few in 5 years		
4	Name of District	MANATUTO			A few in 10 years		
4	Name of Sub-district	LACLO			Not functional of irrigation structure		
5	Name of Suco	LACO MESAC			Climate change (decrease of river flow)		
5	Name of Aldeia	NAKALEU			Others		
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= 820812 Y= 9052045				
	Grid reference in Irr. scheme except for above facility	X= 821067 Y= 9051443					
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 ?		
		Others			WUAs Traditional WG Others		
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Intake →	Length(m)= 7.00 Height(m)= 1.80 Number of span = 1 Width/1span (m)= 2.50 Number of gates= 4			a-3) Name of representative of WG or WUAs		
	/ If Canal →	Length of main 200 Width(m) for typical 1.20 Height(m)= 1.00			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		
	/ If Pond or lake →	Diameter of Pond(m)= Depth(m)= Number of Pond =			Yes No		
8	Number of house hold in service area	100			by Cash US\$/HH as member ship fee US\$/ha as water fee		
9	Actual irrigation area (ha)	113			by Rice kg/HH as member ship fee kg/ha as water fee		
10	Original or planned irrigation area (ha)	350.0			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year 2012			Yes No		
12	Which type of the water source ?	Spring			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?		
		River Water	✓		a-6) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		
		Under Ground Water			Increase % for years		
		Others			Decrease % for years		
		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		a-7) What is		
		If respondent select above "☑ Canal", show the type of canal	Concrete ✓ Wet Masonry ✓ Earth/Soil ✓ Others		Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake			a-7) How often are the meeting held in a year?		
		Broken			The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		Not functional by deterioration			The WG or WUAs is under establishment.		
		Cannot operate the gate			(Expected establishment year)		
		Cannot keep the water level for some reasons (Details)			Not required to establish (Reason)		
		Obstruction of sand/stone (sedimentation)			Already expired (Reason)		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others			Others		
		Problems on Canal			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.		
		Broken			Opinion or request by interviewee		
		Not functional by deterioration		✓	- Farmers need guidances to establish a water users group again .		
		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						

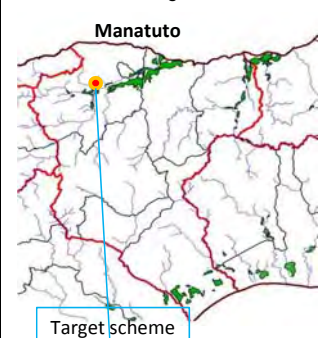

● Evaluation of Irrigation scheme

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

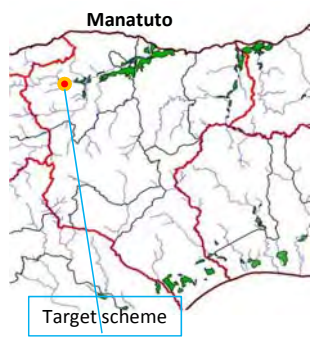

Evaluation of degree on immediate treatment

* 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

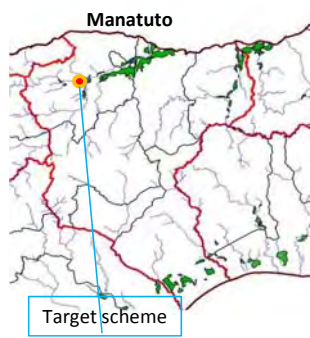




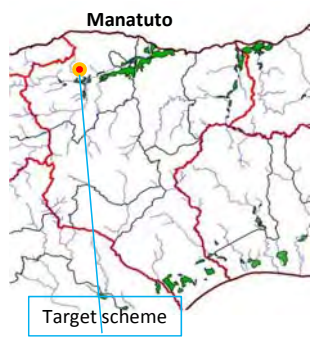

Remarks : describe supplemental and/or new information, if any

1	No.	43	14						
2	Date of Survey	16/12/2013		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				
3	Name of Irrigation scheme	REBUTIKEO							
4	Name of District	MANATUTO							
4	Name of Sub-district	LACLO							
5	Name of Suco	UMA KADUAK							
5	Name of Aldeia	REBUTIKEO							
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>						
		Intake with gates							
		Pond/Lake/Spring							
		Weir							
		Others							
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 812413 Y= 9049441						
6	Grid reference in Irr. scheme except for above facility	X= 812435 Y= 9049517							
		What kind of structure?	Weir						
		/ If Weir→	Length(m)=						
			Height(m)=						
			Width/1span (m)=						
			Number of span =						
/ If Intake→	Number of gates=								
	Length(m)=								
	Height(m)=								
	Number of span =								
/ If Canal→	Length of main	1,500							
	Width(m) for typical	1.39							
	Height(m)=	0.30							
	Number of Pond =								
/ 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)	20							
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	<input checked="" type="checkbox"/>						
		River Water	<input checked="" type="checkbox"/>						
		Under Ground Water							
		Others							
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)							
		Weir (Wooden)							
		Free intake	<input checked="" type="checkbox"/>						
		Intake with Gates							
		Pond/Lake							
		Canal	<input checked="" type="checkbox"/>						
If respondent select above "☑ Canal", show the type of canal	Concrete								
	Wet Masonry								
	Earth/Soil	<input checked="" type="checkbox"/>							
	Others								
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		<input checked="" type="checkbox"/>	●Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate			Size of area (10 pts, more than 100ha)	Total Points	90	A	
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)	<input checked="" type="checkbox"/>		Evaluation of degree on immediate treatment				
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			* Evaluation criteria				
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Problems on Canal		<input checked="" type="checkbox"/>	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Broken			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Not functional by deterioration	<input checked="" type="checkbox"/>		●Location of Irrigation Scheme				
		Cannot operate the gate							
		Cannot flow the water for some reasons (Details)	<input checked="" type="checkbox"/>						
		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									
Remarks : describe supplemental and/or new information, if any									

District : **MANATUTO**

Irrigation scheme : **MALOROK(Wer Merak + Bereolou) 3-a-44TR**

1	No.	44	14		
2	Date of Survey	16/12/2013			
3	Name of Irrigation scheme	MALOROK(Wer Merak + Bereolou)			
4	Name of District	MANATUTO			
	Name of Sub-district	LACLO			
5	Name of Suco	LACO MESAC			
	Name of Aldeia	LAKALEU			
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 817073 Y= 9049468			
	Grid reference in Irr. scheme except for above facility	X= 816688 Y= 9049841			
7	What kind of structure?	Weir <input checked="" type="checkbox"/> Intake <input checked="" type="checkbox"/> Canal Pond/Lake Others		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a) In case of YES	
	/ If Canal→	Length of main 4,000 Width(m) for typical 1.20 Height(m)= 0.70		a-1) What kind of the WG or WUAs ?	
	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		WUAs Traditional WG Others	
8	Number of house hold in service area	70		a-2) How many number of WG or WUAs in the irrigation scheme ?	
9	Actual irrigation area (ha)	51		a-3) Name of representative of WG or WUAs	
10	Original or planned irrigation area (ha)	200.0		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year		Yes <input type="checkbox"/> No <input type="checkbox"/>	
12	Which type of the water source ?	Spring River Water <input checked="" type="checkbox"/> Under Ground Water Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		by Cash US\$/HH as member ship fee US\$/ha as water fee	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		by Rice kg/HH as member ship fee kg/ha as water fee	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> 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		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
		Problems on Canal Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> 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		Yes <input type="checkbox"/> No <input type="checkbox"/> % for years Decrease % for years	
		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		a-6) What is	
		Problems on the other facilities		Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
Remarks : describe supplemental and/or new information, if any				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) <input checked="" type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>	
				Opinion or request by interviewee	
				No agricultural activities for 6 years due to non functional facilities. - Farmers would like to establish a water users group if irrigation schemes are constructed. - Some farmers already moved to other paddy field. * 2 irrigation schemes 3-a-44TR WER MERAK and 3-a-50TR EREOLOK were convined as one scheme MALOROK.	
				● 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	
				 Target scheme	
					

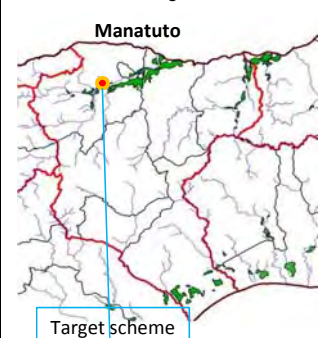

1	No.	45	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	16/12/2013				(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	KILAUN					A few in 10 years		
4	Name of District	MANATUTO					Not functional of irrigation structure		
	Name of Sub-district	LACLO					Climate change (decrease of river flow)		
5	Name of Suco	UMA NARUK					Others		
	Name of Aldeia	UMA NARUK							
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					Wash out the land	✓	
		Others					Damage to irrigation structure	✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 817370 Y= 9051271					Others	
	Grid reference in Irr. scheme except for above facility	X= 817612 Y= 9051538				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
7	What kind of structure?	Weir				Others			
		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)=	1.00						
	/ 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)	8							
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	✓						
	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	✓			●Evaluation of Irrigation scheme			
		Broken	✓			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration	✓						
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)	✓			Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
		others							
		Problems on Canal	✓			Evaluation of degree on immediate treatment			
		Broken	✓			* Evaluation criteria			
		Not functional by deterioration				A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate				B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)				C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)	✓			●Location of Irrigation Scheme			
		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								
Remarks : describe supplemental and/or new information, if any									

District : **MANATUTO**

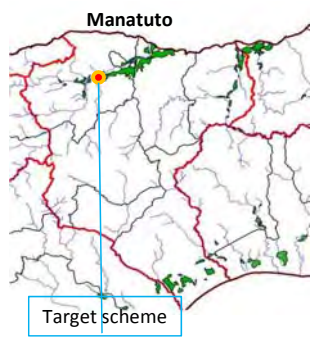

Irrigation scheme :

LAUTA

3-a-46TR

1	No.	46	14								
2	Date of Survey	17/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		✓			
3	Name of Irrigation scheme	LAUTA				(Cause or Reason)	Not functional of irrigation structure				
4	Name of District	MANATUTO					Climate change (decrease of river flow)		✓		
5	Name of Sub-district	LACLO					Others				
6	Name of Suco	UMA NARUK				Flood Damage to irrigation scheme (Frequency)	Every year				
6	Name of Aldeia	UMA SURAI					(Contents of damage)	Wash out the land		✓	
6	Observing location of the Grid	Free Intake	✓					Damage to irrigation structure		✓	
		Intake with gates						Others			
		Pond/Lake/Spring						Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
		Weir									
		Others									
		Grid reference at Intake/Pond/Lake/Spring/pump		X=	819931						
Grid reference in Irr. scheme except for above facility		Y=	9050265								
		X=	820321								
		Y=	9051062								
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 ?							
		Others		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?							
		/ If Intake →	Length(m)=	Yes							
			Height(m)=	No							
			Number of span =	/ if respondent select above "✓" Yes", which way do farmers pay the above fee?							
			Width/1span (m)=								
			Number of gates =	by Cash							
		/ If Canal →	Length of main	US\$/HH as member ship fee							
			4,000	US\$/ha as water fee							
			Width(m) for typical	kg/HH as member ship fee							
			2,00	kg/ha as water fee							
			Height(m)=	a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?							
			0,30	Yes							
		/ If Pond or lake →	Diameter of Pond(m) =	No							
				Increase							
			Depth(m)=	%							
				for years							
			Number of Pond =	Decrease							
				%							
				for years							
8	Number of house hold in service area	100		a-6) What is							
9	Actual irrigation area (ha)	44		Gate operation							
10	Original or planned irrigation area (ha)	120.0		Gate maintenance							
11	Original constructed year	Year's	Before 1970	Canal Cleaning							
		Exact year		Canal Rehabilitation							
		Rehabilitated year		Others							
12	Which type of the water source ?	Spring		a-7) How often are the meeting held in a year?							
		River Water	✓	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)							
		Under Ground Water		The WG or WUAs is under establishment.							
		Others		(Expected establishment year)							
		If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			Not required to establish (Reason)					
			Weir (Wooden)			Already expired (Reason)					
			Free intake	✓		Others					
			Intake with Gates			Opinion or request by interviewee					
			Pond/Lake								
			Canal	✓							
Others											
If respondent select above "✓ Canal", show the type of canal	Concrete			- Farmers do second cropping but it depends on the weather condition. - Farmers would like to establish a water users group if irrigation schemes are rehabilitated.							
	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		✓	● Evaluation of Irrigation scheme						
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)						
		Not functional by deterioration		✓	Problem of intake and keeping water level(20pts)						
		Cannot operate the gate			Damage of structure(20pts)						
		Cannot keep the water level for some reasons (Details)			Flood effect(10pts)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)						
		High maintenance cost of structure (Annual Cost US\$)			Total Points						
		(Contents of maintenance with high cost)			50						
		others			Evaluation of degree on immediate treatment						
		Problems on Canal			* Evaluation criteria						
		Broken			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
		Not functional by deterioration			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
		Cannot operate the gate			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
		Cannot flow the water for some reasons (Details)			● Location of Irrigation Scheme						
		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											

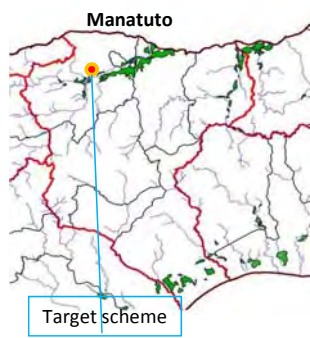

Remarks : describe supplemental and/or new information, if any

1	No.	47	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	BISOROK				A few in 10 years		
4	Name of District	MANATUTO				Not functional of irrigation structure		
	Name of Sub-district	LACLO				Climate change (decrease of river flow)		
5	Name of Suco	LACO MESAC				Others		
	Name of Aldeia	TAHAGAMU						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 817268 Y= 9050042				Others	
	Grid reference in Irr. scheme except for above facility	X= 817661 Y= 9050284			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
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)=				by Rice	US\$/ha as water fee	
		Number of span =			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/1span (m)=				No		
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
	/ If Canal→	Length of main	3,000			Decrease	%	
		Width(m) for typical	3.00		a-6) What is		for years	
		Height(m)=	0.50		Gate operation		for years	
	/ If Pond or lake→	Diameter of Pond(m) =			Gate maintenance			
		Depth(m)=			Canal Cleaning			
		Number of Pond =			Canal Rehabilitation			
8	Number of house hold in service area	150			Others			
9	Actual irrigation area (ha)	55			a-7) How often are the meeting held in a year?			
10	Original or planned irrigation area (ha)	200.0			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)	✓ ≥ schemes are offered.	
11	Original constructed year	Before 1970				The WG or WUAs is under establishment. (Expected establishment year)		
	Exact year					Not required to establish (Reason)		
	Rehabilitated year					Already expired (Reason)		
12	Which type of the water source ?	Spring				Others		
		River Water	✓		16	Opinion or request by interviewee	- Farmers would like to establish a water users group if some support to construct the schemes are offered.	
		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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal		✓	Evaluation of degree on immediate treatment			
		Broken		✓	* Evaluation criteria			
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)		✓	●Location of Irrigation Scheme			
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		Others						
		Problems on Pond/Lake						
		Broken			Target scheme			
	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							

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

1	No.	48	14				
2	Date of Survey	18/12/2013		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		✓ ✓
3	Name of Irrigation scheme	IBABAK RALAN					
4	Name of District	MANATUTO					
5	Name of Sub-district	MANATUTO					
6	Name of Suco	ILIHEU					
6	Name of Aldeia	TUN					
6	Observing location of the Grid	Free Intake	✓				
6		Intake with gates					
6		Pond/Lake/Spring					
6		Weir					
6	Grid reference at Intake/Pond/Lake/Spring/pump	X=	824200				
6		Y=	9053790				
6	Grid reference in Irr. scheme except for above facility	X=	824405				
6		Y=	9053887				
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes No		✓
7		Intake	✓				
7		Canal	✓				
7		Pond/Lake					
7		Others					
7	/ If Weir→	Length(m)=					
7		Height(m)=					
7		Width/1span (m)=					
7		Number of span =					
7	/ If Intake→	Number of gates=					
7		Length(m)=	20.00				
7		Height(m)=	1.00				
7		Number of span =	1				
7		Width/1span (m)=	0.80				
7		Number of gates=	0				
7	/ If Canal→	Length of main	2,000				
7		Width(m) for typical	2.50				
7		Height(m)=	1.00				
7	/ If Pond or lake→	Diameter of Pond(m) =					
7		Depth(m)=					
7		Number of Pond =					
8	Number of house hold in service area	200					
9	Actual irrigation area (ha)	121					
10	Original or planned irrigation area (ha)	150.0					
11	Original constructed year	Year's	Before 1970				
11		Exact year					
11		Rehabilitated year	1992				
12	Which type of the water source ?	Spring					
12		River Water	✓				
12		Under Ground Water					
12		Others					
12	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)					
12		Weir (Wooden)					
12		Free intake	✓				
12		Intake with Gates					
12		Pond/Lake					
12		Canal	✓				
12	If respondent select above "Canal", show the type of canal	Others					
12		Concrete	✓				
12		Wet Masonry					
12		Earth/Soil	✓				
12		Others					
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓	16	Opinion or request by interviewee		- Farmers would like to establish a water users group if irrigation schemes are rehabilitated.
13		Broken	✓				
13		Not functional by deterioration					
13		Cannot operate the gate					
13		Cannot keep the water level for some reasons (Details)					
13		Obstruction of sand/stone (sedimentation)	✓				
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					
13		others					
13		Problems on Canal	✓				
13		Broken	✓				
13	Not functional by deterioration						
13	Cannot operate the gate						
13	Cannot flow the water for some reasons (Details)						
13	Obstruction of sand/Stone (sedimentation)	✓					
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13	Others						
13	Problems on Pond/Lake						
13	Broken						
13	Not functional by deterioration						
13	Cannot operate the outlet gate						
13	Cannot keep the water in pond for some reasons (Details)						
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
13	Others						
13	Problems on the other facilities						
13							
<p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>							

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


1	No.	49	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	16/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	BUBRAMOS				A few in 10 years		
4	Name of District	MANATUTO				Not functional of irrigation structure		
	Name of Sub-district	LACLO				Climate change (decrease of river flow)		
5	Name of Suco	LACO MESAC				Others		
	Name of Aldeia	TAHAGAMU						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring	✓				A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 814695 Y= 9050805				Others	
	Grid reference in Irr. scheme except for above facility	X= 815284 Y= 9051087			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		✓	
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)=				by Rice	US\$/ha as water fee	
		Number of span =			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/1span (m)=				No		
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
	/ If Canal→	Length of main	5,000			Decrease	%	
		Width(m) for typical	1.10		a-6) What is		for years	
		Height(m)=	0.30		Gate operation		for years	
	/ If Pond or lake→	Diameter of Pond(m) =			Gate maintenance			
		Depth(m)=			Canal Cleaning			
		Number of Pond =			Canal Rehabilitation			
8	Number of house hold in service area	6			Others			
9	Actual irrigation area (ha)	6			a-7) How often are the meeting held in a year?			
10	Original or planned irrigation area (ha)	15.0			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)		
11	Original constructed year	Before 1970				The WG or WUAs is under establishment. (Expected establishment year) to establish a group if new irrigation schemes are constructed.	✓	
	Rehabilitated year					Not required to establish (Reason)		
12	Which type of the water source ?	Spring				Already expired (Reason)		
		River Water	✓			Others		
		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		✓	● Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration		✓				
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others						
		Problems on Canal		✓	Evaluation of degree on immediate treatment			
		Broken		✓	* Evaluation criteria			
		Not functional by deterioration		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)		✓	● Location of Irrigation Scheme			
		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							

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

District : 0

Irrigation scheme : Bereolok

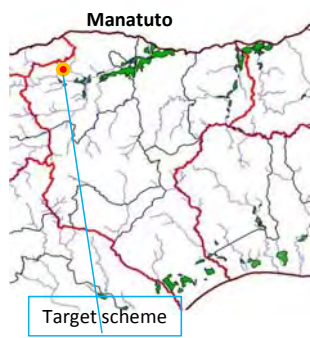

3-a-50TR

1	No.	50	14		
2	Date of Survey			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
3	Name of Irrigation scheme	Bereolok			
4	Name of District				
5	Name of Sub-district				
6	Name of Suco				
6	Name of Aldeia				
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir 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	
	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	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 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? 16 Opinion or request by interviewee * A part of 3-a-44TR MALOROK.		
			• 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 : **MANATUTO**

Irrigation scheme : **HATUKONAN(Lai Teri)**

3-a-52TR

1	No.	52	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	15/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	HATUKONAN(Lai Teri)				A few in 10 years		
4	Name of District	MANATUTO				Not functional of irrigation structure		
	Name of Sub-district	LACLO				Climate change (decrease of river flow)	✓	
5	Name of Suco	LACO MESAK				Others		
	Name of Aldeia	HATUKONAN						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 811312 Y= 9051291				Others	
	Grid reference in Irr. scheme except for above facility	X= 811798 Y= 9050682			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
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)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?	Others		
		/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-3) Name of representative of WG or WUAs			
		/ If Canal→	Length of main 3,000 Width(m) for typical 2,70 Height(m)= 0,60		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓	
		/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		/ 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		
8	Number of house hold in service area	40			by Rice kg/HH as member ship fee kg/ha as water fee			
9	Actual irrigation area (ha)	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		
10	Original or planned irrigation area (ha)	100.0			/ if respondent select above "☑ Yes", How change of fee?	Increase % for years Decrease % for years		
11	Original constructed year	Before 1970			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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) The WG or WUAs is under establishment. (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others	✓ - Irrigation scheme is	
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		16	Opinion or request by interviewee	- There are no water users groups due to non functional irrigation scheme.	
	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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	90
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal		✓	* Evaluation criteria			
		Broken		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)		✓	●Location of Irrigation Scheme			
		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							

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

District : **MANATUTO**

Irrigation scheme : **ARADU**

ARADU

3-a-53TR

1	No.	53	14		
2	Date of Survey	16/12/2013			
3	Name of Irrigation scheme	ARADU			
4	Name of District	MANATUTO			
	Name of Sub-district	LACLO			
5	Name of Suco	LACO MESAC			
	Name of Aldeia	TAHAGAMU			
6	Observing location of the Grid	Free Intake	<input checked="" type="checkbox"/>		
		Intake with gates			
		Pond/Lake/Spring	<input checked="" type="checkbox"/>		
		Weir			
		Others			
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 815901 Y= 9050522		
	Grid reference in Irr. scheme except for above facility	X= 815962 Y= 9050492			
7	What kind of structure?	Weir			
		Intake			
		Canal	<input checked="" type="checkbox"/>		
		Pond/Lake	<input checked="" type="checkbox"/>		
		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	4.00		
		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)	80			
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	<input checked="" type="checkbox"/>		
		River Water			
		Under Ground Water	<input checked="" type="checkbox"/>		
		Others			
	If respondent select above "river water", show the type of irrigation facility	Weir (concrete)			
		Weir (Wooden)			
		Free intake			
		Intake with Gates			
		Pond/Lake	<input checked="" type="checkbox"/>		
		Canal	<input checked="" type="checkbox"/>		
		Others			
	If respondent select above "Canal", show the type of canal	Concrete			
		Wet Masonry			
		Earth/Soil	<input checked="" type="checkbox"/>		
		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	<input checked="" type="checkbox"/>		
		Not functional by deterioration	<input checked="" type="checkbox"/>		
		Cannot operate the gate			
		Cannot flow the water for some reasons (Details)			
		Obstruction of sand/Stone (sedimentation)	<input checked="" type="checkbox"/>		
		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)	<input checked="" type="checkbox"/>	- Water level is not		
	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)				
	Others				
	Problems on the other facilities				
Remarks : describe supplemental and/or new information, if any					

14 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

15 Is there any major problems in the scheme ? 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, transplant, harvest ect) (Reason) Others **- The Pond doesn't**

16 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?

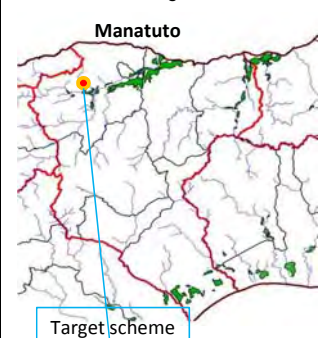

b) In case of Not respondent select "No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) ", answer the question below. The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) emes are constructed. The WG or WUAs is under establishment. (Expected establishment year) Not required to establish (Reason) Already expired (Reason) Others

16 Opinion or request by interviewee **- Farmers would like to establish a water users group if irrigation schemes are constructed.**

●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

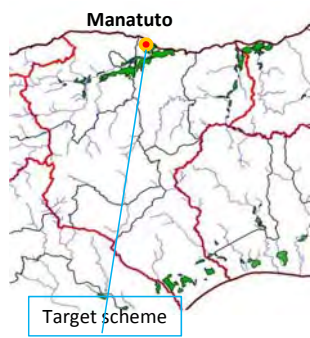




District : 0

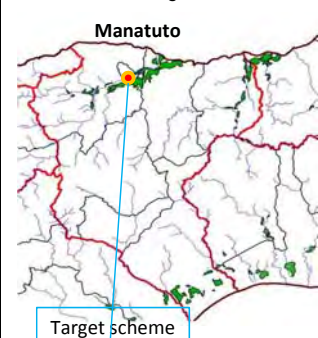

Irrigation scheme : Laclo

3-a-54TR

1	No.	54	14				
2	Date of Survey			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	
3	Name of Irrigation scheme	Laclou			(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District				Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	
5	Name of Sub-district				(Contents of damage)	Wash out the land Damage to irrigation structure Others	
6	Name of Suco				Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
6	Name of Aldeia				Others		
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	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No		
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others		
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-1) What kind of the WG or WUAs ?			
	/ If Canal →	Length of main Width(m) for typical Height(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?			
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-3) Name of representative of WG or WUAs			
8	Number of house hold in service area			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		
9	Actual irrigation area (ha)	expired		/ 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		
10	Original or planned irrigation area (ha)			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 % % % % % % % % % % % % %		
11	Original constructed year	Year's Exact year Rehabilitated year		/ if respondent select above "Yes", How change of fee?	Increase Decrease		
12	Which type of the water source ?	Spring River Water Under Ground Water Others		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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		a-7) How often are the meeting held in a year?			
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others		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		
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	16	Opinion or request by interviewee	* A part of 3-a-5S Laclou.		
				● 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.	55	14		Shortage of Irrigation Water (Frequency)	Every year	✓				
2	Date of Survey	13/12/2013			(Cause or Reason)	A few in 5 years	✓				
3	Name of Irrigation scheme	PONTE OKOSSAU				A few in 10 years					
4	Name of District	MANATUTO				Not functional of irrigation structure	✓				
	Name of Sub-district	MANATUTO				Climate change (decrease of river flow)	✓				
5	Name of Suco	SAU				Others	- The location of				
	Name of Aldeia	SAU									
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓			
		Intake with gates	✓				A few in 5 years				
		Pond/Lake/Spring					A few in 10 years				
		Weir					(Contents of damage)	Wash out the land	✓		
		Others						Damage to irrigation structure	✓		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 169977 Y= 9057269					Others			
	Grid reference in Irr. scheme except for above facility	X= 170035 Y= 9057391				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	✓				
						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	WUAs					
		Pond/Lake			a-1) What kind of the WG or WUAs ?	Traditional WG	✓				
		Others				Others					
	/ If Weir →	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?						
		Height(m)=			a-3) Name of representative of WG or WUAs						
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓				
		Number of span =			No						
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee				
	/ If Intake →	Length(m)=	200.00			by Rice	US\$/ha as water fee				
		Height(m)=	1.00				kg/HH as member ship fee				
		Number of span =	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 ?		kg/ha as water fee				
		Width/1span (m)=	1.20			Yes					
		Number of gates=	1			No	✓				
	/ If Canal →	Length of main	2,000			%					
		Width(m) for typical	1.20			for years					
		Height(m)=	1.00			%					
	/ If Pond or lake →	Diameter of Pond(m) =			a-6) What is	Decrease	%				
		Depth(m)=				for years					
		Number of Pond =									
8	Number of house hold in service area	70				Gate operation	✓				
9	Actual irrigation area (ha)	120				Gate maintenance					
10	Original or planned irrigation area (ha)	50.0				Canal Cleaning	✓				
11	Original constructed year	Year's	Before 1970			Canal Rehabilitation	✓				
		Exact year				Others					
		Rehabilitated year	2004			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 establishment year)				
		Under Ground Water					Not required to establish (Reason)	✓			
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)				Already expired (Reason)					
		Weir (Wooden)				Others					
		Free intake									
		Intake with Gates	✓								
		Pond/Lake									
		Canal	✓								
	If respondent select above "✓ Canal", show the type of canal	Concrete	✓		16	Opinion or request by interviewee					
		Wet Masonry	✓				- There are no water users groups due to no motivation.				
		Earth/Soil					- The location of facility is much higher than paddy field.				
		Others									
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	● Evaluation of Irrigation scheme						
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
		Not functional by deterioration		✓					Size of area (10 pts, more than 100ha)	Total Points	100
		Cannot operate the gate		✓							
		Cannot keep the water level for some reasons (Details)		✓	* Evaluation criteria						
		Obstruction of sand/stone (sedimentation)			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)						
		High maintenance cost of structure (Annual Cost US\$)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)						
		others (Contents of maintenance with high cost)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)						
		Problems on Canal		✓	● Location of Irrigation Scheme						
		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\$)									
	others (Contents of maintenance with high cost)										
	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\$)										
	others (Contents of maintenance with high cost)										
	Problems on the other facilities										
	Others										

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

1	No.	56	14							
2	Date of Survey	17/12/2013		Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year	✓			
3	Name of Irrigation scheme	LABAUN WAI				(Cause or Reason)	Not functional of irrigation structure	✓		
4	Name of District	MANATUTO					Climate change (decrease of river flow)			
5	Name of Sub-district	LACLO					Others			
6	Name of Suco	LACO MESAC				Flood Damage to irrigation scheme (Frequency)	Every year	✓		
6	Name of Aldeia	NARALEU						A few in 5 years		
6	Observing location of the Grid	Free Intake	✓					A few in 10 years		
6		Intake with gates	✓					(Contents of damage)	Wash out the land	✓
6		Pond/Lake/Spring	✓						Damage to irrigation structure	✓
6		Weir							Others	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 821297 Y= 9052183			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
6	Grid reference in Irr. scheme except for above facility	X= 821529 Y= 9052137			Others					
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes			
7		Intake	✓		No		✓			
7		Canal	✓		a) In case of YES					
7		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	WUAs				
7		Others			Traditional WG					
7		/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Others					
7		/ If Intake →	Length(m)= 286.00 Height(m)= 1.00 Number of span = 2 Width/1span (m)= 1.00 Number of gates= 1		a-2) How many number of WG or WUAs in the irrigation scheme ?					
7		/ If Canal →	Length of main 5,000 Width(m) for typical 1.20 Height(m)= 1.00		a-3) Name of representative of WG or WUAs					
7		/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓			
8	Number of house hold in service area	50			/ 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				
9	Actual irrigation area (ha)	723			by Rice kg/HH as member ship fee kg/ha as water fee					
10	Original or planned irrigation area (ha)	450.0			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 No % % for years				
11	Original constructed year	Before 1970			/ if respondent select above "✓ Yes", How change of fee?	Increase Decrease % % for years				
11	Rehabilitated year	2010			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others				
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓ ✓ ✓ - Water is supplied from MABELEN		a-7) How often are the meeting held in a year?					
12	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			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		Weir (Wooden)				The WG or WUAs is under establishment. (Expected establishment year)				
12		Free intake	✓			Not required to establish (Reason)				
12		Intake with Gates				Already expired (Reason)				
12	Pond/Lake			Others						
12	Canal	✓								
12	Others									
12	If respondent select above "✓ Canal", show the type of canal	Concrete	✓			16	Opinion or request by interviewee	- Water is supplied from MABELEN scheme		
12		Wet Masonry								
12		Earth/Soil								
12		Others								
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	● Evaluation of Irrigation scheme					
13		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
13		Not functional by deterioration								
13		Cannot operate the gate		✓	Size of area (10 pts, more than 100ha)	Total Points	60	B		
13		Cannot keep the water level for some reasons (Details)								
13		Obstruction of sand/stone (sedimentation)		✓	Evaluation of degree on immediate treatment					
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			* Evaluation criteria					
13		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
13		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
13		Broken		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
13		Not functional by deterioration			● Location of Irrigation Scheme					
13		Cannot operate the gate		✓	 					
13		Cannot flow the water for some reasons (Details)								
13		Obstruction of sand/stone (sedimentation)		✓						
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)								
13	Others									
13	Problems on Pond/Lake									
13	Broken									
13	Not functional by deterioration									
13	Cannot operate the outlet gate									
13	Cannot keep the water in pond for some reasons (Details)									
13	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)									
13	Others									
13	Problems on the other facilities									

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

11. Manufahi

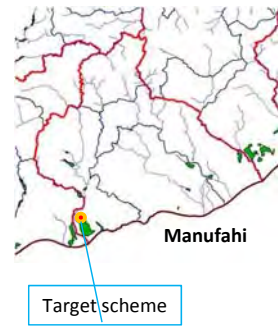

District :

Manufahi

Irrigation scheme :

CARA-ULUN

2-a-1TC

1	No.	1	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	CARA-ULUN				A few in 10 years		
4	Name of District	Manufahi				Not functional of irrigation structure	✓	
	Name of Sub-district	Same				Climate change (decrease of river flow)	✓	
5	Name of Suco	BETANO				Others		
	Name of Aldeia	LEOAI						
6	Observing location of the Grid	Free Intake		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir	✓				Wash out the land	
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 794416 Y= 8990693				Others	
	Grid reference in Irr. scheme except for above facility	X= 795223 Y= 8988085			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
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	WUAs	✓	
		Pond/Lake			a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Height(m)=			a-3) Name of representative of WG or WUAs			
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No			
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=				by Rice	US\$/ha as water fee	
		Height(m)=			a-5) if respondent select above "✓" Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		kg/HH as member ship fee	
		Number of span =					kg/ha as water fee	
		Width/1span (m)=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
		Number of gates=				Decrease	%	
	/ If Canal→	Length of main	2,226		a-6) What is	Gate operation		
		Width(m) for typical	2.60			Gate maintenance		
		Height(m)=	1.80			Canal Cleaning	✓	
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Rehabilitation		
		Depth(m)=				Others		
		Number of Pond =			a-7) How often are the meeting held in a year?			
8	Number of house hold in service area	1,500			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)		
9	Actual irrigation area (ha)	850				The WG or WUAs is under establishment. (Expected establishment year)		
10	Original or planned irrigation area (ha)	2,196.0				Not required to establish (Reason)		
11	Original constructed year	2010s				Already expired (Reason)		
		Exact year				Others		
		Rehabilitated year	2013		16	Opinion or request by interviewee	- Scheme is under construction.	
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						
	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		✓	●Evaluation of Irrigation scheme			
		Broken	✓		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)	✓		Size of area (10 pts, more than 100ha)		Total Points	50
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others						
		Problems on Canal		✓	Evaluation of degree on immediate treatment			
		Broken	✓		* Evaluation criteria			
		Not functional by deterioration	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/Stone (sedimentation)	✓		●Location of Irrigation Scheme			
		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							

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

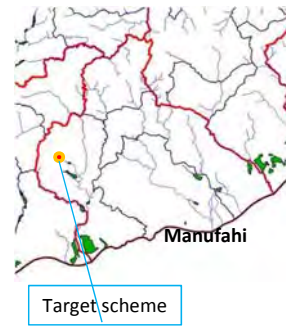

District :

Manufahi

Irrigation scheme :

COLOKO

2-a-3S

1	No.	3	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓			
3	Name of Irrigation scheme	COLOKO				A few in 10 years				
4	Name of District	Manufahi				Not functional of irrigation structure	✓			
	Name of Sub-district	Same				Climate change (decrease of river flow)	✓			
5	Name of Suco	LEKFOHO				Others				
	Name of Aldeia	REALAU								
6	Observing location of the Grid	Free Intake		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓			
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓		
		Pond/Lake/Spring					A few in 10 years			
		Weir					Wash out the land			
		Others					Damage to irrigation structure	✓		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 790605 Y= 9002648				Others			
	Grid reference in Irr. scheme except for above facility	X= 791042 Y= 9002597			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
					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	WUAs	✓			
		Pond/Lake			a-1) What kind of the WG or WUAs ?	Traditional WG				
		Others				Others				
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?					
		Height(m)=			a-3) Name of representative of WG or WUAs					
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes				
		Number of span =			No					
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee			
	/ If Intake→	Length(m)=				by Rice	kg/HH as member ship fee			
		Height(m)=	0.80		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		kg/ha as water fee			
		Number of span =				Yes				
		Width/1span (m)=	1.00		/ if respondent select above "✓" Yes", How change of fee?	No				
		Number of gates=	1			Increase	%			
	/ If Canal→	Length of main	1,200		a-6) What is	Decrease	%			
		Width(m) for typical	0.40				for years			
		Height(m)=	0.40				for years			
	/ If Pond or lake→	Diameter of Pond(m) =			a-7) How often are the meeting held in a year?					
		Depth(m)=								
		Number of Pond =								
8	Number of house hold in service area	1,500								
9	Actual irrigation area (ha)	122								
10	Original or planned irrigation area (ha)	2,196.0								
11	Original constructed year	2010s								
		Exact year								
		Rehabilitated year	2013							
12	Which type of the water source ?	Spring		16	Opinion or request by interviewee					
		River Water	✓							
		Under Ground Water								
		Others								
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			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)			
		Weir (Wooden)						Not required to establish (Reason)		
		Free intake							Already expired (Reason)	
		Intake with Gates	✓							Others
		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		● Evaluation of Irrigation scheme						
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)			
		Not functional by deterioration								
		Cannot operate the gate								
		Cannot keep the water level for some reasons (Details)								
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	50			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)								
		others			Evaluation of degree on immediate treatment					
		Problems on Canal	✓		* Evaluation criteria					
		Broken	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		Not functional by deterioration	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		Cannot operate the gate	✓		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Cannot flow the water for some reasons (Details)			● Location of Irrigation Scheme					
		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			Target scheme					
		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									

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

District :

Manufahi

Irrigation scheme :

SAHEN

2-a-4S

1	No.	4	14					
2	Date of Survey	18/12/2013						
3	Name of Irrigation scheme	SAHEN						
4	Name of District	Manufahi						
	Name of Sub-district	Fatuberlio						
5	Name of Suco	CLOCUC						
	Name of Aldeia	TIRO						
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= 170892 Y= 9004819						
	Grid reference in Irr. scheme except for above facility	X= 171444 Y= 9004413						
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)= 1.40 Number of span = 1 Width/1span (m)= 1.00 Number of gates= 1						
	/ If Canal →	Length of main 1,500 Width(m) for typical 1.20 Height(m)= 1.00						
	/ If Pond or lake →	Diameter of Pond(m)= 30.0 Depth(m)= 1.60 Number of Pond = 1						
8	Number of house hold in service area	500						
9	Actual irrigation area (ha)	166						
10	Original or planned irrigation area (ha)	300.0						
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						
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						
	Remarks : describe supplemental and/or new information, if any							

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	<input checked="" type="checkbox"/>
	(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	(Contents of damage)	Wash out the land Damage to irrigation structure Others	<input checked="" type="checkbox"/>
	Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
	Others		

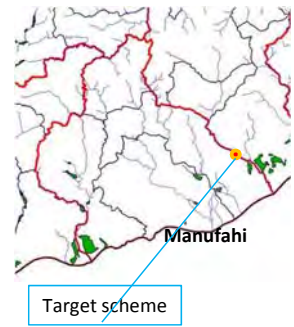

15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	<input checked="" type="checkbox"/>
a) In case of YES			
a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others		<input checked="" type="checkbox"/>
a-2) How many number of WG or WUAs in the irrigation scheme ?			
a-3) 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 % % % % for years % % for years		
a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		<input checked="" type="checkbox"/>
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
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16	Opinion or request by interviewee	
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●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

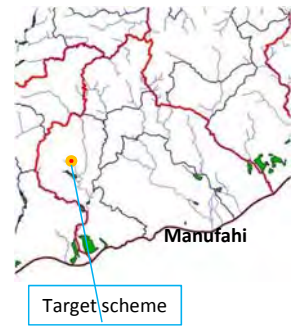

District :

Manufahi

Irrigation scheme :

AKADIRUHUN

2-a-5S

1	No.	5	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	AKADIRUHUN				A few in 10 years			
4	Name of District	Manufahi				Not functional of irrigation structure	✓		
	Name of Sub-district	Same				Climate change (decrease of river flow)	✓		
5	Name of Suco	LEKFOHO				Others			
	Name of Aldeia	REALAU							
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates	✓				A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					(Contents of damage)	Wash out the land	
		Others						Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 790605 Y= 9002648					Others	
	Grid reference in Irr. scheme except for above facility	X= 791042 Y= 9002597				Shortage of the workers (when plow, transplant, harvest ect) (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	WUAs	✓		
		Others			a-1) What kind of the WG or WUAs ?	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)=	0.80			by Rice	US\$/ha as water fee		
		Number of span =			a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		kg/HH as member ship fee		
		Width/1span (m)=	1.00				kg/ha as water fee		
		Number of gates=	1		/ if respondent select above "✓ Yes", How change of fee?	Increase	%		
	/ If Canal→	Length of main	1,200			Decrease	%		
		Width(m) for typical	0.40		a-6) What is		for years		
		Height(m)=	0.40			Gate operation			
	/ If Pond or lake→	Diameter of Pond(m) =				Gate maintenance			
		Depth(m)=				Canal Cleaning	✓		
		Number of Pond =				Canal Rehabilitation			
8	Number of house hold in service area	1,500				Others			
9	Actual irrigation area (ha)	include "3"			a-7) How often are the meeting held in a year?				
10	Original or planned irrigation area (ha)	2,196.0			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)			
11	Original constructed year	2010s				The WG or WUAs is under establishment. (Expected establishment year)			
	Exact year					Not required to establish (Reason)			
	Rehabilitated year	2013				Already expired (Reason)			
12	Which type of the water source ?	Spring				Others			
		River Water	✓						
		Under Ground Water							
	If respondent select above "✓ river water", show the type of irrigation facility	Others							
		Weir (concrete)							
		Weir (Wooden)							
		Free intake							
		Intake with Gates	✓						
		Pond/Lake							
	If respondent select above "✓ Canal", show the type of canal	Canal	✓						
		Others							
		Concrete							
		Wet Masonry	✓						
	What's kind of problem for the structure or facility, and reason of problem ?	Earth/Soil	✓						
		Others	✓						
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake			●Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	50	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
		others			Evaluation of degree on immediate treatment				
		Problems on Canal	✓		* Evaluation criteria				
		Broken	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Not functional by deterioration	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate	✓		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Cannot flow the water for some reasons (Details)			●Location of Irrigation Scheme				
		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								

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

District :

Manufahi

Irrigation scheme :

KAKEU LULIK

2-a-6TR

1	No.	6	14					
2	Date of Survey	18/12/2013						
3	Name of Irrigation scheme	KAKEU LULIK						
4	Name of District	Manufahi						
	Name of Sub-district	Same						
5	Name of Suco	BETANO						
	Name of Aldeia	LORO						
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= 798635.32 Y= 8987816.81					
	Grid reference in Irr. scheme except for above facility	X= 798834 Y= 8987358						
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)= 300.00 Height(m)= 1.80 Number of span = Width/1span (m)= 2.00 Number of gates=						
	/ If Canal→	Length of main Width(m) for typical Height(m)=						
	/ If Pond or lake→	Diameter of Pond(m) = 30.0 Depth(m)= 1.60 Number of Pond = 1						
8	Number of house hold in service area	65						
9	Actual irrigation area (ha)	91						
10	Original or planned irrigation area (ha)	60.0						
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							
Remarks : describe supplemental and/or new information, if any								

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, transplant, harvest ect) (Reason)		
Others		

15 Is there any Water Group (WG) or Water User Associations (WUAs) ?

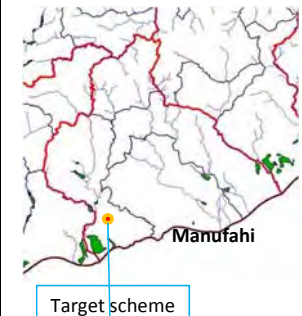

Yes	✓
No	
a) In case of YES	
a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others
a-2) How many number of WG or WUAs in the irrigation scheme ?	
a-3) Name of representative of WG or WUAs	
a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No
/ if respondent select 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 % 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

● 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

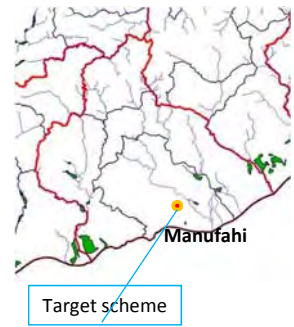

District :

Manufahi

Irrigation scheme :

BESUSU

2-a-7TR

1	No.	7	14						
2	Date of Survey	17/12/2013							
3	Name of Irrigation scheme	BESUSU							
4	Name of District	Manufahi							
	Name of Sub-district	Alas							
5	Name of Suco	MOUBERLOIK							
	Name of Aldeia	UMAFERIK							
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= 817505 Y= 8991429							
	Grid reference in Irr. scheme except for above facility	X= 817385 Y= 8990989							
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 0.50 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	200							
9	Actual irrigation area (ha)	13							
10	Original or planned irrigation area (ha)	20.0							
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							
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							
	Opinion or request by interviewee								
	Is there any major problems in the scheme ?								
	Is there any Water Group (WG) or Water User Associations (WUAs) ?								
	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								MATEUS GONCALVES
	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 % % for years % 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							
	●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								

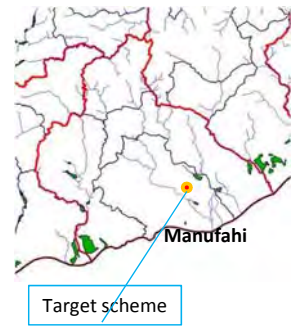

District :

Manufahi

Irrigation scheme :

LAFAEK HASAN

2-a-8TR

1	No.	8	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	LAFAEK HASAN				A few in 10 years		
4	Name of District	Manufahi				Not functional of irrigation structure		
	Name of Sub-district	Alas				Climate change (decrease of river flow)	✓	
5	Name of Suco	DOFIK				Others		
	Name of Aldeia	LAFAEK HASAN						
6	Observing location of the Grid	Free Intake		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year		
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring	✓				A few in 10 years	
		Weir					Wash out the land	
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 818088 Y= 8996448				Others	
	Grid reference in Irr. scheme except for above facility	X= 818319 Y= 8996257			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
					Others			
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓	
		Intake			No	No		
		Canal	✓		a) In case of YES	WUAs	✓	
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Height(m)=			a-3) Name of representative of WG or WUAs			
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No	No		
		Number of gates=			/ if respondent select above "✓ Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=			by Rice	US\$/ha as water fee		
		Height(m)=				kg/HH as member ship fee		
		Number of span =			a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/ha as water fee		
		Width/1span (m)=			Yes	Yes		
		Number of gates=			No	No		
	/ If Canal→	Length of main	1,000		/ if respondent select above "✓ Yes", How change of fee?	Increase	%	
		Width(m) for typical	2.00			Decrease	%	
		Height(m)=	1.00		a-6) What is	for years		
	/ If Pond or lake→	Diameter of Pond(m) =			Gate operation	for years		
		Depth(m)=			Gate maintenance			
		Number of Pond =			Canal Cleaning		✓	
8	Number of house hold in service area	97			Canal Rehabilitation			
9	Actual irrigation area (ha)	35			Others			
10	Original or planned irrigation area (ha)	500.0			a-7) How often are the meeting held in a year?			
11	Original constructed year	Year's			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)		
		Exact year				The WG or WUAs is under establishment. (Expected establishment year)		
		Rehabilitated year				Not required to establish (Reason)		
12	Which type of the water source ?	Spring	✓			Already expired (Reason)		
		River Water				Others		
		Under Ground Water						
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)						
		Weir (Wooden)						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
	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		●Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points	20
		Obstruction of sand/stone (sedimentation)						
		High maintenance cost of structure (Annual Cost US\$)			Evaluation of degree on immediate treatment			C
		(Contents of maintenance with high cost)			* Evaluation criteria			
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Broken		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Not functional by deterioration			●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

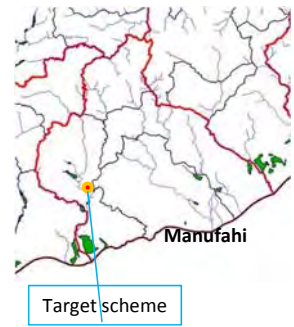

District :

Manufahi

Irrigation scheme :

SENT BOOT

2-a-9TR

1	No.	9	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years	✓			
3	Name of Irrigation scheme	SENT BOOT				A few in 10 years				
4	Name of District	Manufahi				Not functional of irrigation structure	✓			
	Name of Sub-district	Same				Climate change (decrease of river flow)	✓			
5	Name of Suco	DAISNA				Others				
	Name of Aldeia	LOTI								
6	Observing location of the Grid	Free Intake		15	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓		
		Intake with gates						A few in 5 years	✓	
		Pond/Lake/Spring	✓					A few in 10 years		
		Weir						(Contents of damage)	Wash out the land	
		Others						Damage to irrigation structure	✓	
		Others						Others		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 796018 Y= 8997864			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
	Grid reference in Irr. scheme except for above facility	X= 795858 Y= 8996761			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	✓			
						Others				
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?					
		Height(m)=			a-3) Name of representative of WG or WUAs					
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes				
		Number of span =			No					
		Number of gates=			/ if respondent select above "✓ Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee			
	/ If Intake→	Length(m)=				by Rice	kg/HH as member ship fee			
		Height(m)=			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				
		Number of span =			Increase	%				
		Width/1span (m)=			/ if respondent select above "✓ Yes", How change of fee?	Decrease	%			
		Number of gates=				for years				
	/ If Canal→	Length of main	2,000		a-6) What is	Gate operation				
		Width(m) for typical	1.00			Gate maintenance				
		Height(m)=	0.35			Canal Cleaning	✓			
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Rehabilitation				
		Depth(m)=				Others				
		Number of Pond =			a-7) How often are the meeting held in a year?					
8	Number of house hold in service area	250			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)				
9	Actual irrigation area (ha)	25				The WG or WUAs is under establishment. (Expected establishment year)				
10	Original or planned irrigation area (ha)	200.0				Not required to establish (Reason)				
11	Original constructed year	2000s				Already expired (Reason)				
		Exact year				Others				
		Rehabilitated year			16	Opinion or request by interviewee				
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		✓	●Evaluation of Irrigation scheme					
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration		✓						
		Cannot operate the gate								
		Cannot keep the water level for some reasons (Details)								
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	40		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)								
		others			Evaluation of degree on immediate treatment					
		Problems on Canal		✓	* Evaluation criteria					
		Broken		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		Not functional by deterioration		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		Cannot operate the gate		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Cannot flow the water for some reasons (Details)			●Location of Irrigation Scheme					
		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			Target scheme					
		Not functional by deterioration								
		Cannot operate the outlet gate			17/12/2013 10:55					
	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									

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

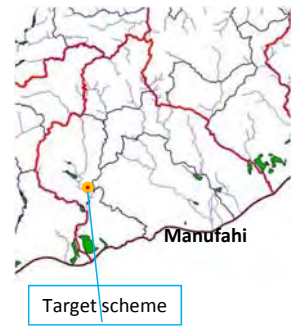

District :

Manufahi

Irrigation scheme :

WELOLO

2-a-10TR

1	No.	10	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	WELOLO				A few in 10 years		
4	Name of District	Manufahi				Not functional of irrigation structure	✓	
	Name of Sub-district	Alas				Climate change (decrease of river flow)	✓	
5	Name of Suco	WEBEREK				Others		
	Name of Aldeia	WELOLO						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Others					Others	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 816832 Y= 9003794			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
	Grid reference in Irr. scheme except for above facility	X= 817500 Y= 9003229			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	✓	
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Height(m)=			a-3) Name of representative of WG or WUAs			
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No			
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=				by Rice	US\$/ha as water fee	
		Height(m)=					kg/HH as member ship fee	
		Number of span =			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/1span (m)=				No		
		Number of gates=				Increase	%	
	/ If Canal→	Length of main	1,000		/ if respondent select above "✓" Yes", How change of fee?	Decrease	%	
		Width(m) for typical	1.50				for years	
		Height(m)=	0.50		a-6) What is	Gate operation		
	/ If Pond or lake→	Diameter of Pond(m) =				Gate maintenance		
		Depth(m)=				Canal Cleaning	✓	
		Number of Pond =				Canal Rehabilitation		
8	Number of house hold in service area	125				Others		
9	Actual irrigation area (ha)	140			a-7) How often are the meeting held in a year?			
10	Original or planned irrigation area (ha)	300.0			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)		
11	Original constructed year	Before 1970				The WG or WUAs is under establishment. (Expected establishment year)		
		Exact year				Not required to establish (Reason)		
		Rehabilitated year				Already expired (Reason)		
12	Which type of the water source ?	Spring				Others		
		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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration		✓				
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)		Total Points	40
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others			Evaluation of degree on immediate treatment			
		Problems on Canal		✓	* Evaluation criteria			
		Broken		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)			●Location of Irrigation Scheme			
		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							

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

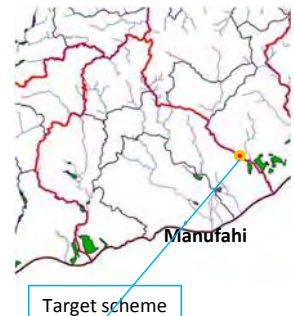

District :

Manufahi

Irrigation scheme :

CLERE

2-a-12TR

1	No.	12	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	CLERE				A few in 10 years			
4	Name of District	Manufahi				Not functional of irrigation structure			
	Name of Sub-district	Fatuberlio				Climate change (decrease of river flow)	✓		
5	Name of Suco	CAICASA				Others			
	Name of Aldeia	CAICASA							
6	Observing location of the Grid	Free Intake		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓		
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					Wash out the land		
		Others					Damage to irrigation structure	✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 823672 Y= 8998654				Others		
	Grid reference in Irr. scheme except for above facility	X= 824010 Y= 8998587			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)				
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)= Height(m)= Width/1span (m)= Number of span = Number of gates=			Others			
		/ If Intake→	Length(m)= Height(m)= 1.00 Number of span = 1 Width/1span (m)= 2.00 Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?				
		/ If Canal→	Length of main 850 Width(m) for typical 0.80 Height(m)= 0.60		a-3) Name of representative of WG or WUAs				
		/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No			
8	Number of house hold in service area	200			/ 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			
9	Actual irrigation area (ha)	73			by Rice kg/HH as member ship fee kg/ha as water fee				
10	Original or planned irrigation area (ha)	200.0			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 No			
11	Original constructed year	Year's 2010s Exact year Rehabilitated year			/ if respondent select above "✓" Yes", How change of fee?	Increase % for years Decrease % for years			
12	Which type of the water source ?	Spring		16	a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others			
		River Water	✓			a-7) How often are the meeting held in a year?			
		Under Ground Water							
		Others							
		If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)				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)	
			Weir (Wooden)						The WG or WUAs is under establishment. (Expected establishment year)
	Free intake					Not required to establish (Reason)			
	Intake with Gates		✓			Already expired (Reason)			
	Pond/Lake					Others			
	If respondent select above "✓ Canal", show the type of canal	Canal	✓						
		Others							
		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		●Evaluation of Irrigation scheme					
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	50		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Evaluation of degree on immediate treatment				
		others			* Evaluation criteria				
		Problems on Canal	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Broken	✓		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Not functional by deterioration	✓		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Cannot operate the gate			●Location of Irrigation Scheme				
		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								

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

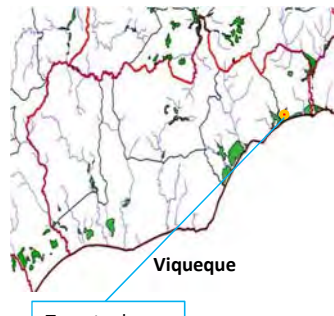

12. Viqueque

District : **Viqueque**

Irrigation scheme :

KOMOLI

5-a-1TC

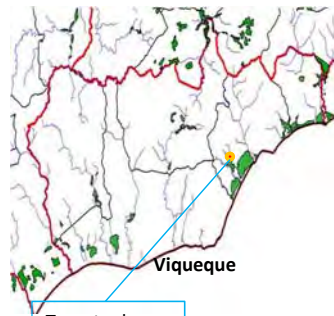

1	No.	1	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	10/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	KOMOLI			(Contents of damage)	Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	
5	Name of Sub-district	Uatucarbau				(Frequency)	Every year A few in 5 years A few in 10 years
6	Name of Suco	WANIUMA				(Contents of damage)	Wash out the land Damage to irrigation structure Others
6	Name of Aldeia	ALAOLI				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir ✓ Others				Others	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 243704.32 Y= 9032389.58					
6	Grid reference in Irr. scheme except for above facility	X= 243089 Y= 9030860					
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No
7	/ If Weir→	Length(m)= 10.0 Height(m)= 3.00 Width/1span (m)= 12.00 Number of span = 1 Number of gates= 2			a) In case of YES		
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?	WUAs ✓ Traditional WG Others	
7	/ If Canal→	Length of main 1.000 Width(m) for typical 0.60 Height(m)= 0.90			a-2) How many number of WG or WUAs in the irrigation scheme ?		
7	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		- ORLANDO DA COSTA
8	Number of house hold in service area	404			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No ✓	
9	Actual irrigation area (ha)	347			/ 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	
10	Original or planned irrigation area (ha)	300.0			by Rice kg/HH as member ship fee kg/ha as water fee		
11	Original constructed year	Year's 2000s Exact year 2002 Rehabilitated year			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	
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years	
12	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			a-6) What is	Gate operation ✓ Gate maintenance ✓ Canal Cleaning ✓ Canal Rehabilitation Others	
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?		3
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			16	Opinion or request by interviewee	
13						● Evaluation of Irrigation scheme	
13						Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)
13						Damage of structure(20pts)	Flood effect(10pts)
13						Size of area (10 pts, more than 100ha)	Total Points
13							30
13						Evaluation of degree on immediate treatment	C
13						* Evaluation criteria	
13						A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)	
13						B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)	
13						C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)	
13						● Location of Irrigation Scheme	
13							
Remarks : describe supplemental and/or new information, if any							

District : **Viqueque**

Irrigation scheme :

UATOLARI II

5-a-3TC


1	No.	3	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	11/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	UATOLARI II			(Contents of damage)	Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year
5	Name of Sub-district	Wattari				(Contents of damage)	A few in 5 years A few in 10 years Wash out the land Damage to irrigation structure Others
6	Name of Suco	MATAHOI				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
7	Name of Aldeia	AIELE				Others	
8	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir ✓ Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
9	Grid reference at intake/Pond/lake/spring/pump	X= 228266 Y= 9023689			a) In case of YES	WUAs Traditional WG Others	✓
10	Grid reference in Irr. scheme except for above facility	X= 229181 Y= 9023706			a-1) What kind of the WG or WUAs ?		
11	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others			a-2) How many number of WG or WUAs in the irrigation scheme ?		
12	Number of house hold in service area	65			a-3) Name of representative of WG or WUAs		
13	Actual irrigation area (ha)	Include*2			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
14	Original or planned irrigation area (ha)	51.0			/ 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	
15	Original constructed year	Year's 1990s Exact year 1992 Rehabilitated year			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	
16	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years	
17	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
18	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?		
19	Opinion or request by interviewee				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	
20	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			16	Opinion or request by interviewee	
21	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			● 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)	
22	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			Size of area (10 pts, more than 100ha)		
23	Problems on the other facilities				Total Points	90	
24	What's kind of problem for the structure or facility, and reason of problem ?				Evaluation of degree on immediate treatment	A/A100	
25	Remarks : describe supplemental and/or new information, if any				* 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)		
26					● Location of Irrigation Scheme		
27							
28							

District : **Viqueque**

Irrigation scheme :

WAI EULAI

5-a-5TC

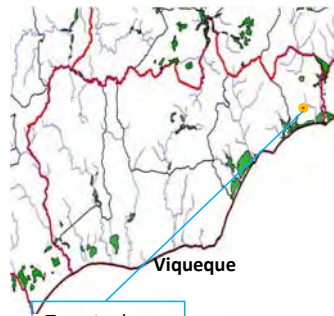

1	No.	5	14		Shortage of Irrigation Water (Frequency)	Every year	✓																
2	Date of Survey	11/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓																
3	Name of Irrigation scheme	WAI EULAI				Not functional of irrigation structure Climate change (decrease of river flow) Others	✓																
4	Name of District	Viqueque																					
5	Name of Sub-district	Ossu																					
6	Name of Suco	OSSU DE CIMA																					
6	Name of Aldeia	BELAS																					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring ✓ Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years																
6	Grid reference at intake/Pond/lake/spring/pump	X= 211734 Y= 9032517				(Contents of damage)	Wash out the land Damage to irrigation structure Others																
6	Grid reference in Irr. scheme except for above facility	X= 212154 Y= 9032523				Shortage of the workers (when plow, transplant, harvest ect) (Reason)																	
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake ✓ Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓																
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others	✓																
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?																		
7	/ If Canal→	Length of main 3.000 Width(m) for typical 0.85 Height(m)= 0.90 Diameter of Pond(m) = 60.0 Depth(m)= 15.00 Number of Pond = 1			a-2) How many number of WG or WUAs in the irrigation scheme ?																		
8	Number of house hold in service area	32			a-3) Name of representative of WG or WUAs																		
9	Actual irrigation area (ha)	82			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No																	
10	Original or planned irrigation area (ha)	380.0			/ 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																	
11	Original constructed year	Year's 1980s Exact year 1988 Rehabilitated year			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																	
12	Which type of the water source ?	Spring ✓ River Water Under Ground Water Others			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years																	
12	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others																	
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?																		
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		16	Opinion or request by interviewee																		
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>40</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>C</td> </tr> </table> <p>* 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)</p> <p>● Location of Irrigation Scheme</p> 				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
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																				
Remarks : describe supplemental and/or new information, if any																							

District : **Viqueque**

Irrigation scheme :

BAIDUBU

5-a-6S

1	No.	6	14				
2	Date of Survey	10/1/2014	Is there any major problems in the scheme ? (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, transplant, harvest ect) (Reason) Others				
3	Name of Irrigation scheme	BAIDUBU					
4	Name of District	Viqueque					
4	Name of Sub-district	Utucarbau					
5	Name of Suco	IRABIN DETAZO					
5	Name of Aldeia	TARADIGA					
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=		249947.11			
		Y=		9035867.14			
	Grid reference in Irr. scheme except for above facility	X=		249569			
		Y=	9032379				
	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)=	1.80			
			Number of span =	1			
	Width/1span (m)=	8.00					
	Number of gates=	4					
/ If Canal→	Length of main	900					
	Width(m) for typical	3.00					
	Height(m)=	1.80					
/ If Pond or lake→	Diameter of Pond(m) =						
	Depth(m)=						
	Number of Pond =						
8	Number of house hold in service area	400					
9	Actual irrigation area (ha)	240					
10	Original or planned irrigation area (ha)	500.0					
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	✓				
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		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			
		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							
17 •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)							
18 •Location of Irrigation Scheme  							

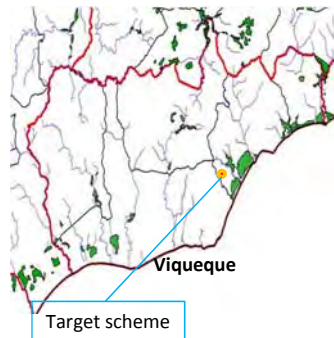

Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

SAKETO

5-a-7TC

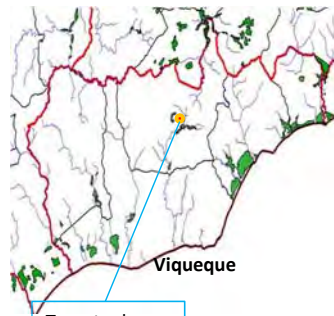

1	No.	7	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	11/1/2014			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	SAKETO				A few in 10 years			
4	Name of District	Viqueque				Not functional of irrigation structure			
4	Name of Sub-district	Wattari				Climate change (decrease of river flow)			
5	Name of Suco	MATAHOI				Others			
5	Name of Aldeia	WANIUMA							
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
6		Intake with gates	✓				A few in 5 years	✓	
6		Pond/Lake/Spring					A few in 10 years		
6		Weir	✓				(Contents of damage)	Wash out the land	
6		Others						Damage to irrigation structure	✓
6		Grid reference at Intake/Pond/Lake/Spring/pump	X= 228266 Y= 9023689					Others	
6	Grid reference in Irr. scheme except for above facility	X= 227918 Y= 9020269				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
7	What kind of structure?	Weir	✓		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓	
7		Intake	✓			No			
7		Canal	✓			a) In case of YES			
7		Pond/Lake				a-1) What kind of the WG or WUAs ?	WUAs	✓	
7		Others					Traditional WG		
7		/ If Weir→	Length(m)=				Others		
7			Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
7			Width/1span (m)=			a-3) Name of representative of WG or WUAs			
7			Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
7		/ If Intake→	Length(m)=				No		
7			Height(m)=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
7			Number of span =				by Rice	US\$/ha as water fee	
7		Width/1span (m)=			a-5) if respondent select above "✓" Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/HH as member ship fee			
7		Number of gates=				kg/ha as water fee			
7	/ If Canal→	Length of main	2,500			Yes			
7		Width(m) for typical	1.50		/ if respondent select above "✓" Yes", How change of fee?	No			
7		Height(m)=	1.25			Increase	%		
7	/ If Pond or lake→	Diameter of Pond(m) =			a-6) What is	Decrease	%		
7		Depth(m)=					for years		
7		Number of Pond =					for years		
8	Number of house hold in service area	112				Gate operation			
9	Actual irrigation area (ha)	412				Gate maintenance			
10	Original or planned irrigation area (ha)	86.2				Canal Cleaning	✓		
11	Original constructed year	Year's	1990s			Canal Rehabilitation			
11		Exact year	1992			Others			
11		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)			
12		River Water	✓				The WG or WUAs is under establishment. (Expected establishment year)		
12		Under Ground Water					Not required to establish (Reason)		
12	If respondent select above "✓ river water" , show the type of irrigation facility	Weir (concrete)					Already expired (Reason)		
12		Weir (Wooden)	✓				Others		
12		Free intake							
12		Intake with Gates	✓						
12		Pond/Lake							
12		Canal	✓						
12	If respondent select above "✓ Canal" , show the type of canal	Concrete				16	Opinion or request by interviewee		
12		Wet Masonry	✓						
12		Earth/Soil	✓						
12		Others							
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	●Evaluation of Irrigation scheme				
13		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
13		Not functional by deterioration							
13		Cannot operate the gate							
13		Cannot keep the water level for some reasons (Details)							
13		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)	Total Points	90	
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)				Evaluation of degree on immediate treatment		A/A100	
13		others				* Evaluation criteria			
13		Problems on Canal		✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
13		Broken		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
13		Not functional by deterioration		✓	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
13		Cannot operate the gate			●Location of Irrigation Scheme				
13		Cannot flow the water for some reasons (Details)		✓	 				
13		Obstruction of sand/stone (sedimentation)		✓					
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13		Others							
13		Problems on Pond/Lake							
13		Broken							
13		Not functional by deterioration							
13		Cannot operate the outlet gate							
13		Cannot keep the water in pond for some reasons (Details)							
13		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
13		Others							
13		Problems on the other facilities							
Remarks : describe supplemental and/or new information, if any									

District : **Viqueque**

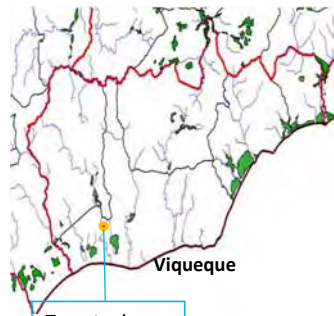

Irrigation scheme :

BIKALIU

5-a-8S

1	No.	8	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	13/1/2014			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	BIKALIU				A few in 10 years		
4	Name of District	Viqueque				Not functional of irrigation structure	✓	
	Name of Sub-district	Ossu				Climate change (decrease of river flow)		
5	Name of Suco	UAGEIA				Others		
	Name of Aldeia	DOLIBUTI						
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates	✓			(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir	✓				Wash out the land	
		Others					Damage to irrigation structure	✓
	Grid reference at intake/Pond/lake/spring/pump	X= 215890					Others	
		Y= 9030669						
	Grid reference in Irr. scheme except for above facility	X= 215825						
		Y= 9030615						
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	✓
							Others	
	/ If Weir→	Length(m)= 10.0				a-2) How many number of WG or WUAs in the irrigation scheme ?		
		Height(m)= 1.50				a-3) Name of representative of WG or WUAs		
		Width/1span (m)= 60.00				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		Number of span = 1					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)= 0.70					by Rice	US\$/ha as water fee
		Number of span = 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 ?		kg/HH as member ship fee
		Width/1span (m)= 0.90						kg/ha as water fee
		Number of gates= 1				/ if respondent select above "✓" Yes", How change of fee?	Increase	%
	/ If Canal→	Length of main 1.200					Decrease	%
		Width(m) for typical 0.45				a-6) What is		for years
		Height(m)= 0.50					Gate operation	
	/ If Pond or lake→	Diameter of Pond(m) =					Gate maintenance	
		Depth(m)=					Canal Cleaning	✓
		Number of Pond =					Canal Rehabilitation	
8	Number of house hold in service area	396					Others	
9	Actual irrigation area (ha)	50				a-7) How often are the meeting held in a year?		2
10	Original or planned irrigation area (ha)	109.0						
11	Original constructed year	2000s				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.		
		Exact year					The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		Rehabilitated year					The WG or WUAs is under establishment. (Expected establishment year)	
12	Which type of the water source ?	Spring	✓				Not required to establish (Reason)	
		River Water	✓				Already expired (Reason)	
		Under Ground Water					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	✓			● Evaluation of Irrigation scheme		
		Broken	✓			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)
		Not functional by deterioration						Flood effect(10pts)
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)	✓					
		Obstruction of sand/stone (sedimentation)	✓			Size of area (10 pts, more than 100ha)	Total Points	90
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal	✓			Evaluation of degree on immediate treatment		
		Broken	✓			* Evaluation criteria		
		Not functional by deterioration				A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
		Cannot operate the gate				B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)		
		Cannot flow the water for some reasons (Details)				C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)		
		Obstruction of sand/stone (sedimentation)	✓			● Location of Irrigation Scheme		
		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						

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

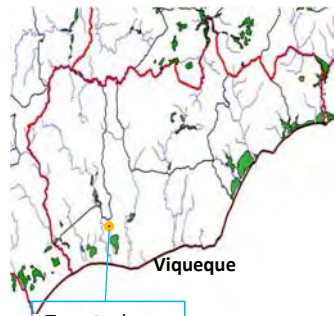

1	No.	9	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	24/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	WETODO				Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	
5	Name of Sub-district	Viqueque			(Contents of damage)	Wash out the land Damage to irrigation structure Others	
6	Name of Suco	LUCA			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
6	Name of Aldeia	KUMALOR			Others		
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	✓	14	Is there any major problems in the scheme ?		
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 198373 Y= 9010923					
6	Grid reference in Irr. scheme except for above facility	X= 196394 Y= 9010888					
7	What kind of structure?	Weir Intake Canal Pond/Lake Others	✓ ✓ ✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES		
7	/ If Intake→	Length(m)= 10.00 Height(m)= 2.00 Number of span = 1 Width/1span (m)= 6.00 Number of gates= 1			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	✓
7	/ If Canal→	Length of main 2,000 Width(m) for typical 1.10 Height(m)= 1.60			a-2) How many number of WG or WUAs in the irrigation scheme ?		1
7	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		EVARISTO AMARAL
8	Number of house hold in service area	42			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
9	Actual irrigation area (ha)	412			/ 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	
10	Original or planned irrigation area (ha)	425.0			by Rice kg/HH as member ship fee kg/ha as water fee		
11	Original constructed year	Year's 2010s Exact year Rehabilitated year 2013			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	
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓ ✓		/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease %	
12	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	✓ ✓ ✓ ✓		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	✓ ✓		a-7) How often are the meeting held in a year?		3
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		16	Opinion or request by interviewee		
13		Problems on Canal Broken Not functional by deterioration Cannot operate the gate Cannot keep 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	✓				
13		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					
13		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 : **Viqueque**

Irrigation scheme :

CAELARAN

5-a-10S

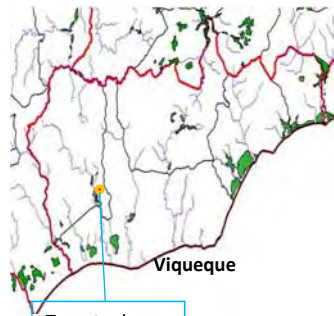

1	No.	10	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	24/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	CAELARAN				A few in 10 years	
4	Name of District	Viqueque				Not functional of irrigation structure	
	Name of Sub-district	Viqueque				Climate change (decrease of river flow)	
5	Name of Suco	BAHALARAWAIN				Others	
	Name of Aldeia	WELALEO					
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 198373 Y= 9010923				(Contents of damage)	Wash out the land Damage to irrigation structure Others
	Grid reference in Irr. scheme except for above facility	X= 196394 Y= 9010888				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG ✓ Others	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?		
	/ If Canal →	Length of main 1.000 Width(m) for typical 1.00 Height(m)= 1.20			a-2) How many number of WG or WUAs in the irrigation scheme ?		3
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		- JACINTO VIANA
8	Number of house hold in service area	150			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No ✓	
9	Actual irrigation area (ha)	include*9*			/ 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	
10	Original or planned irrigation area (ha)	106.0			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 ✓ No Increase % for years 10 Decrease % for years 5	
11	Original constructed year	Year's 2010s Exact year Rehabilitated year 2012			a-6) What is	Gate operation ✓ Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			a-7) How often are the meeting held in a year?		2
	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			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	
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ 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 : **Viqueque**

Irrigation scheme :

HAETALAS

5-a-11TR

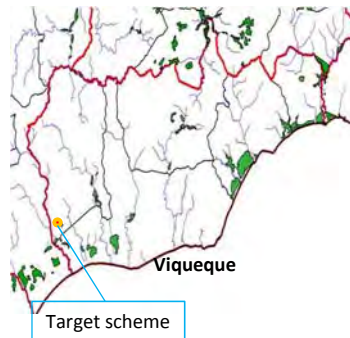

1	No.	11	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	12/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	HAETALAS				Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque					
5	Name of Sub-district	Lacluta					
6	Name of Suco	DILOR					
7	Name of Aldeia	AIDAK LARAN					
8	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		15	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years
9	Grid reference at intake/Pond/lake/spring/pump	X= 193007.19 Y= 9018148.15				(Contents of damage)	Wash out the land Damage to irrigation structure Others
10	Grid reference in Irr. scheme except for above facility	X= 195131 Y= 9018485				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others
11	What kind of structure?	Weir Intake Canal Pond/Lake Others			Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
12	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES		
13	/ If Intake→	Length(m)= 5.00 Height(m)= 1.20 Number of span = 1 Width/1span (m)= 3.00 Number of gates= 1			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	✓
14	/ If Canal→	Length of main 457 Width(m) for typical 1.00 Height(m)= 1.25			a-2) How many number of WG or WUAs in the irrigation scheme ?		
15	/ If Pond or lake→	Diameter of Pond(m) = Depth(m) = Number of Pond =			a-3) Name of representative of WG or WUAs		
16	Number of house hold in service area	200			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
17	Actual irrigation area (ha)	60			/ 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	
18	Original or planned irrigation area (ha)	127.0			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 No % for years % for years	
19	Original constructed year	Year's 2010s Exact year Rehabilitated year			/ if respondent select above "✓" Yes", How change of fee?	Increase Decrease % for years	
20	Which type of the water source ?	Spring River Water Under Ground Water Others			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
21	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			a-7) How often are the meeting held in a year?		
22	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others			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	
23	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			16	Opinion or request by interviewee	
24					● 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)		
25					● Location of Irrigation Scheme  		
Remarks : describe supplemental and/or new information, if any							

District : **Viqueque**

Irrigation scheme :

AETARA

5-a-13TR



1	No.	13	14		
2	Date of Survey	12/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	
3	Name of Irrigation scheme	AETARA		(Cause or Reason)	
4	Name of District	Viqueque		Flood Damage to irrigation scheme (Frequency)	
5	Name of Sub-district	Lacluta		(Contents of damage)	
6	Name of Suco	AHAI		Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
6	Name of Aldeia	TALI UAN		Others	
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= 181406.19 Y= 9012162.2 Grid reference in Irr. scheme except for above facility X= 182358 Y= 9010744	
7	What kind of structure?	Weir Intake ✓ Canal ✓ Pond/Lake Others	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	
8	Number of house hold in service area	97	a) In case of YES		
9	Actual irrigation area (ha)	61	a-1) What kind of the WG or WUAs ?		
10	Original or planned irrigation area (ha)	200.0	a-2) How many number of WG or WUAs in the irrigation scheme ?		
11	Original constructed year	Year's 2010s Exact year 2011 Rehabilitated year	a-3) Name of representative of WG or WUAs		
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		
12	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 "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		
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others	a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ? Increase % for years Decrease % for 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	16	Opinion or request by interviewee	
			a-6) What is Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others		
			a-7) How often are the meeting held in a year? 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		
			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.		
			• 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 : **Viqueque**

Irrigation scheme :

TAHUKMER

5-a-14TR

1	No.	14	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	12/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	TAHUKMER				Not functional of irrigation structure	✓
4	Name of District	Viqueque				Climate change (decrease of river flow)	
5	Name of Sub-district	Lacluta				Others	
6	Name of Suco	DILOR			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year
6	Name of Aldeia	RADIUMA				(Contents of damage)	A few in 5 years A few in 10 years
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others					Wash out the land Damage to irrigation structure Others
6	Grid reference at intake/Pond/lake/spring/pump	X= 192993 Y= 9022600					Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others
6	Grid reference in Irr. scheme except for above facility	X= 192968 Y= 9022520					
7	What kind of structure?	Weir ✓ Intake Canal Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?	a-3) Name of representative of WG or WUAs	
7	/ If Canal →	Length of main 1.000 Width(m) for typical 1.00 Height(m)= 0.70			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			/ 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	
8	Number of house hold in service area	34			/ if respondent select above "✓" Yes", How change of fee?	by Rice kg/HH as member ship fee kg/ha as water fee	
9	Actual irrigation area (ha)	7			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	
10	Original or planned irrigation area (ha)	27.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years	
11	Original constructed year	Year's Exact year Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-7) How often are the meeting held in a year?		
12	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			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	
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ 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)	
13						Size of area (10 pts, more than 100ha)	Total Points
13							50
13						Evaluation of degree on immediate treatment	
13						B	
13						* 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)	
13						● Location of Irrigation Scheme	
13						 	
Remarks : describe supplemental and/or new information, if any							

District : **Viqueque**

Irrigation scheme :

WELAFUA


5-a-15TR

1	No.	15	14			
2	Date of Survey	12/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)		
3	Name of Irrigation scheme	WELAFUA		(Cause or Reason)		
4	Name of District	Viqueque		Flood Damage to irrigation scheme (Frequency)		
5	Name of Sub-district	Lacluta		(Contents of damage)		
6	Name of Suco	DILOR		Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
6	Name of Aldeia	AKADIRUHUN		Others		
7	Observing location of the Grid Grid reference at intake/Pond/lake/spring/pump Grid reference in Irr. scheme except for above facility	Free Intake		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		Intake with gates			No	
		Pond/Lake/Spring			a) In case of YES	
		Weir			a-1) What kind of the WG or WUAs ?	
		Others			a-2) How many number of WG or WUAs in the irrigation scheme ?	
		X=	183423		a-3) Name of representative of WG or WUAs	
		Y=	9014316		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
		X=	183601		/ if respondent select above "Yes", which way do farmers pay the above fee?	
		Y=	9013868		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
					/ if respondent select above "Yes", How change of fee?	
8	What kind of structure?	Weir		a-6) What is		
		Intake		Gate operation		
		Canal		Gate maintenance		
		Pond/Lake		Canal Cleaning		
		Others		Canal Rehabilitation		
		/ If Weir→	Length(m)=		a-7) How often are the meeting held in a year?	
			Height(m)=		The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
			Width/1span (m)=		The WG or WUAs is under establishment. (Expected establishment year)	
			Number of span =		Not required to establish (Reason)	
			Number of gates=		Already expired (Reason)	
	/ If Intake→	Length(m)=		Others		
		Height(m)=		Others		
		Number of span =		Others		
		Width/1span (m)=		Others		
		Number of gates=		Others		
	/ If Canal→	Length of main	2,500	Opinion or request by interviewee		
		Width(m) for typical	0.50	Others		
		Height(m)=	0.40	Others		
	/ If Pond or lake→	Diameter of Pond(m) =		Others		
		Depth(m)=		Others		
		Number of Pond =		Others		
9	Number of house hold in service area	50	16			
10	Actual irrigation area (ha)	29	16			
10	Original or planned irrigation area (ha)	140.0	16			
11	Original constructed year	Year's		16		
		Exact year		16		
		Rehabilitated year		16		
12	Which type of the water source ? If respondent select above "river water", show the type of irrigation facility If respondent select above "Canal", show the type of canal	Spring		16		
		River Water		16		
		Under Ground Water		16		
		Others		16		
		Weir (concrete)		16		
		Weir (Wooden)		16		
		Free intake		16		
		Intake with Gates		16		
		Pond/Lake		16		
		Canal		16		
Others		16				
Concrete		16				
Wet Masonry		16				
Earth/Soil		16				
Others		16				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		● Evaluation of Irrigation scheme		
		Broken		Shortage of water / Obstruction of water pass(40pts)		
		Not functional by deterioration		Problem of intake and keeping water level(20pts)		
		Cannot operate the gate		Damage of structure(20pts)		
		Cannot keep the water level for some reasons (Details)		Flood effect(10pts)		
		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		Total Points		
		others		Evaluation of degree on immediate treatment		
		Problems on Canal		* Evaluation criteria		
		Broken		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
Not functional by deterioration		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
Cannot operate the gate		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
Cannot keep the water level for some reasons (Details)		● Location of Irrigation Scheme				
Obstruction of sand/stone (sedimentation)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on Pond/Lake		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
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Others		(Image showing irrigation map and field)				
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Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
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Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
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Others		(Image showing irrigation map and field)				
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Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
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Not functional by deterioration		(Image showing irrigation map and field)				
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Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
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Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
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Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
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Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
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Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
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Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
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Cannot operate the outlet gate		(Image showing irrigation map and field)				
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High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
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Problems on the other facilities		(Image showing irrigation map and field)				
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Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken		(Image showing irrigation map and field)				
Not functional by deterioration		(Image showing irrigation map and field)				
Cannot operate the outlet gate		(Image showing irrigation map and field)				
Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)				
High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)				
Others		(Image showing irrigation map and field)				
Problems on the other facilities		(Image showing irrigation map and field)				
Broken						

District : 0

Irrigation scheme : 0

5-a-16TR

1	No.	16	14		
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		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
		Intake with gates			
		Pond/Lake/Spring			
		Weir			
		Others			
	Grid reference at intake/Pond/lake/spring/pump	X=			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
	Y=				
	Grid reference in Irr. scheme except for above facility	X=			
	Y=				
7	What kind of structure?	Weir		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 Increase % for years / if respondent select above "Yes", How change of fee? 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? 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	
		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				
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		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 
		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					

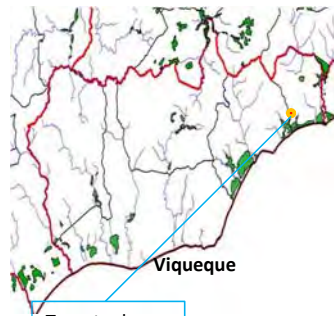

Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

WATUCUSI

5-a-17TR

1	No.	17	14			
2	Date of Survey	10/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)		
3	Name of Irrigation scheme	WATUCUSI		(Cause or Reason)		
4	Name of District	Viqueque		Flood Damage to irrigation scheme (Frequency)		
5	Name of Suco	WANIUMA		(Contents of damage)		
6	Name of Aldeia	WATULILOLI		Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
6	Observing location of the Grid	Free Intake				
		Intake with gates		✓		
6	Grid reference at intake/Pond/lake/spring/pump	X=	243741.75			
		Y=	9032420.91			
6	Grid reference in Irr. scheme except for above facility	X=	244729			
		Y=	9030851			
7	What kind of structure?	Weir		Is there any Water Group (WG) or Water User Associations (WUAs) ?		
8	Number of house hold in service area	Intake	✓	a) In case of YES		
		Canal	✓	a-1) What kind of the WG or WUAs ?		
		Pond/Lake		WUAs		
		Others		Traditional WG		
		/ If Weir→	Length(m)=	10.0	Others	
			Height(m)=	3.00		
			Width/1span (m)=	12.00		
			Number of span =	1		
			Number of gates=	2		
			/ If Intake→	Length(m)=		
9	Actual irrigation area (ha)			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?		
				/ if respondent select above "✓" Yes", which way do farmers pay the above 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 ?		
				/ if respondent select above "✓" Yes", How change of fee?		
				a-6) What is		
				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.		
				Opinion or request by interviewee		
10	Original or planned irrigation area (ha)	100.0				
11	Original constructed year	2000s				
12	Which type of the water source ?	Exact year	2002			
		Rehabilitated year				
		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	✓					
If respondent select above "✓ Canal" , show the type of canal	Others					
	Concrete					
	Wet Masonry	✓				
	Earth/Soil	✓				
	Others					
13	What's kind of problem for the structure or facility, and reason of problem ?					
13	Problems on Weir or Intake	Broken	✓	● Evaluation of Irrigation scheme		
		Not functional by deterioration	✓	Shortage of water / Obstruction of water pass(40pts)		
		Cannot operate the gate		Problem of intake and keeping water level(20pts)		
		Cannot keep the water level for some reasons (Details)		Damage of structure(20pts)		
		Obstruction of sand/stone (sedimentation)		Flood effect(10pts)		
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		Size of area (10 pts, more than 100ha)		
		others		Total Points		
		Problems on Canal	✓	Evaluation of degree on immediate treatment		
		Broken	✓	* Evaluation criteria		
		Not functional by deterioration	✓	A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
Cannot operate the gate		B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
Cannot keep the water level for some reasons (Details)		C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
Obstruction of sand/stone (sedimentation)		● Location of Irrigation Scheme				
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						
Remarks : describe supplemental and/or new information, if any						

District : **Viqueque**

Irrigation scheme : **IRABERE MANUKALA**

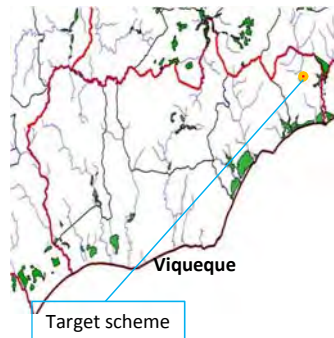

5-a-18TR

1	No.	18	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	10/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	IRABERE MANUKALA			(Contents of damage)	Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	✓
5	Name of Sub-district	Utucurubau			(Reason)	Wash out the land Damage to irrigation structure Others	
6	Name of Suco	IRABIN DESIMA			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	Name of Aldeia	TARADIGA			Others		
8	Observing location of the Grid	Free Intake ✓ Intake with gates ✓ Pond/Lake/Spring Weir Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
9	Grid reference at intake/Pond/lake/spring/pump	X= 247990.29 Y= 9037969.82			a) In case of YES		
10	Grid reference in Irr. scheme except for above facility	X= 248748 Y= 9038048			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	✓
11	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others			a-2) How many number of WG or WUAs in the irrigation scheme ?		
12	Number of house hold in service area	218			a-3) Name of representative of WG or WUAs		
13	Actual irrigation area (ha)	98			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
14	Original or planned irrigation area (ha)	364.0			/ 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	
15	Original constructed year	Year's 2000s Exact year Rehabilitated year			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 % % % for years	
16	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			/ if respondent select above "Yes", How change of fee?	Increase Decrease % % for years	
17	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓
18	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?		
19	Opinion or request by interviewee				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	
20	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			16	Opinion or request by interviewee	
21	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			17	Opinion or request by interviewee	
22	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			18	Opinion or request by interviewee	
23	Problems on the other facilities				19	Opinion or request by interviewee	
24	What's kind of problem for the structure or facility, and reason of problem ?				20	Opinion or request by interviewee	
25	Remarks : describe supplemental and/or new information, if any				21	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	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

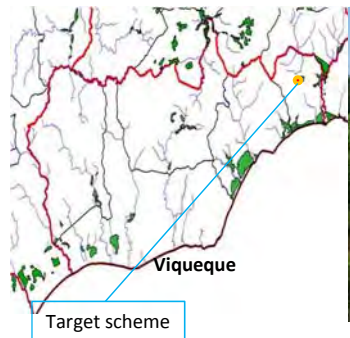




District : **Viqueque**

Irrigation scheme :

IRABERE QUIACAI

5-a-19TR

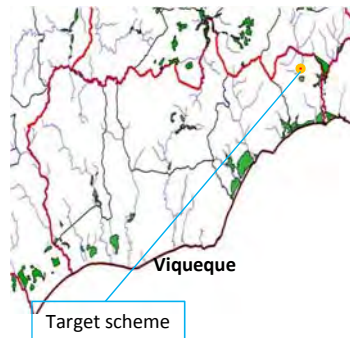

1	No.	19	14		Shortage of Irrigation Water (Frequency)	Every year	✓																
2	Date of Survey	10/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓																
3	Name of Irrigation scheme	IRABERE QUIACAI				Not functional of irrigation structure Climate change (decrease of river flow) Others																	
4	Name of District	Viqueque																					
5	Name of Sub-district	Uatucarbau																					
6	Name of Suco	IRABIN DESIMA																					
6	Name of Aldeia	TARADIGA																					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years																
6	Grid reference at intake/Pond/lake/spring/pump	X= 248138.33 Y= 9037769.98				(Contents of damage)	Wash out the land Damage to irrigation structure Others																
6	Grid reference in Irr. scheme except for above facility	X= 248145 Y= 9038003				Shortage of the workers (when plow, transplant, harvest ect) (Reason)																	
7	What kind of structure?	Weir ✓ Intake Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓																
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others	✓																
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?																		
7	/ If Canal →	Length of main 1.000 Width(m) for typical 0.50 Height(m)= 0.20 Diameter of Pond(m) = Depth(m)= Number of Pond =			a-2) How many number of WG or WUAs in the irrigation scheme ?																		
8	Number of house hold in service area	15			a-3) Name of representative of WG or WUAs																		
9	Actual irrigation area (ha)	8			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No																	
10	Original or planned irrigation area (ha)	20.0			/ 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																	
11	Original constructed year	Year's Exact year Rehabilitated year			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 % % for years % for years																	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			/ if respondent select above "✓ Yes", How change of fee?	Increase Decrease % for years																	
12	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others																	
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?																		
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		16	Opinion or request by interviewee																		
				<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>50</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>B</td> </tr> </table> <p>* 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)</p> <p>● Location of Irrigation Scheme</p>  				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
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																				
Remarks : describe supplemental and/or new information, if any																							

District : **Viqueque**

Irrigation scheme :

WAIDASU

5-a-20TR

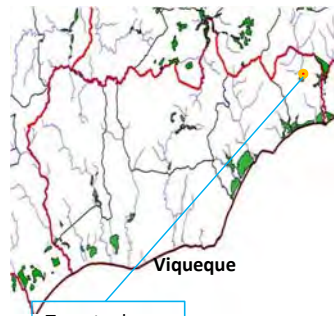

1	No.	20	14			
2	Date of Survey	10/1/2014	Is there any major problems in the scheme ? (Frequency) Every year <input checked="" type="checkbox"/> A few in 5 years <input type="checkbox"/> A few in 10 years <input type="checkbox"/> (Cause or Reason) Not functional of irrigation structure <input type="checkbox"/> Climate change (decrease of river flow) <input type="checkbox"/> Others <input type="checkbox"/> Flood Damage to irrigation scheme (Frequency) Every year <input type="checkbox"/> A few in 5 years <input type="checkbox"/> A few in 10 years <input type="checkbox"/> (Contents of damage) Wash out the land <input type="checkbox"/> Damage to irrigation structure <input type="checkbox"/> Others <input type="checkbox"/> Shortage of the workers (when plow, transplant, harvest ect) (Reason) <input type="checkbox"/> Others <input type="checkbox"/>			
3	Name of Irrigation scheme	WAIDASU				
4	Name of District	Viqueque				
5	Name of Sub-district	Uatucarbau				
6	Name of Suco	BATATA				
6	Name of Aldeia	LAVABA				
6	Observing location of the Grid	Free Intake <input checked="" type="checkbox"/> Intake with gates <input type="checkbox"/> Pond/Lake/Spring <input type="checkbox"/> Weir <input type="checkbox"/> Others <input type="checkbox"/>				
	Grid reference at intake/Pond/lake/spring/pump	X= 248251 Y= 9039833				
	Grid reference in Irr. scheme except for above facility	X= 249048 Y= 9039715				
7	What kind of structure?	Weir <input type="checkbox"/> Intake <input type="checkbox"/> Canal <input checked="" type="checkbox"/> Pond/Lake <input type="checkbox"/> Others <input type="checkbox"/>	15 Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> a) In case of YES a-1) What kind of the WG or WUAs ? WUAs <input type="checkbox"/> Traditional WG <input checked="" type="checkbox"/> Others <input type="checkbox"/> 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 <input type="checkbox"/> No <input type="checkbox"/> / if respondent select above " <input checked="" type="checkbox"/> Yes", which way do farmers pay the above fee? by Cash US\$/HH as member ship fee <input type="checkbox"/> US\$/ha as water fee <input type="checkbox"/> by Rice kg/HH as member ship fee <input type="checkbox"/> kg/ha as water fee <input type="checkbox"/> a-5) if respondent select above " <input checked="" type="checkbox"/> Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ? Yes <input type="checkbox"/> No <input type="checkbox"/> / if respondent select above " <input checked="" type="checkbox"/> Yes", How change of fee? Increase % <input type="checkbox"/> for years <input type="checkbox"/> Decrease % <input type="checkbox"/> for years <input type="checkbox"/> a-6) What is Gate operation <input type="checkbox"/> Gate maintenance <input type="checkbox"/> Canal Cleaning <input checked="" type="checkbox"/> Canal Rehabilitation <input type="checkbox"/> Others <input type="checkbox"/> a-7) How often are the meeting held in a year? The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason) <input type="checkbox"/> The WG or WUAs is under establishment. (Expected establishment year) <input type="checkbox"/> Not required to establish (Reason) <input type="checkbox"/> Already expired (Reason) <input type="checkbox"/> Others <input type="checkbox"/>			
8	Number of house hold in service area	77				
9	Actual irrigation area (ha)	31				
10	Original or planned irrigation area (ha)	76.0				
11	Original constructed year	Year's <input type="checkbox"/> Exact year <input type="checkbox"/> Rehabilitated year <input type="checkbox"/>				
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water <input type="checkbox"/> Under Ground Water <input type="checkbox"/> Others <input type="checkbox"/>				
	If respondent select above " <input checked="" type="checkbox"/> river water", show the type of irrigation facility	Weir (concrete) <input type="checkbox"/> Weir (Wooden) <input type="checkbox"/> Free intake <input type="checkbox"/> Intake with Gates <input type="checkbox"/> Pond/Lake <input type="checkbox"/> Canal <input checked="" type="checkbox"/> Others <input type="checkbox"/>				
	If respondent select above " <input checked="" type="checkbox"/> Canal", show the type of canal	Concrete <input type="checkbox"/> Wet Masonry <input type="checkbox"/> Earth/Soil <input checked="" type="checkbox"/> Others <input type="checkbox"/>				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input type="checkbox"/> Not functional by deterioration <input type="checkbox"/> Cannot operate the gate <input type="checkbox"/> Cannot keep the water level for some reasons (Details) <input type="checkbox"/> Obstruction of sand/stone (sedimentation) <input type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) <input type="checkbox"/> (Contents of maintenance with high cost) <input type="checkbox"/> others <input type="checkbox"/> Problems on Canal <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate <input type="checkbox"/> Cannot flow the water for some reasons (Details) <input type="checkbox"/> Obstruction of sand/stone (sedimentation) <input checked="" type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) <input type="checkbox"/> (Contents of maintenance with high cost) <input type="checkbox"/> Others <input type="checkbox"/> Problems on Pond/Lake <input type="checkbox"/> Broken <input type="checkbox"/> Not functional by deterioration <input type="checkbox"/> Cannot operate the outlet gate <input type="checkbox"/> Cannot keep the water in pond for some reasons (Details) <input type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) <input type="checkbox"/> (Contents of maintenance with high cost) <input type="checkbox"/> Others <input type="checkbox"/> Problems on the other facilities <input type="checkbox"/>		16 Opinion or request by interviewee 16 Evaluation of Irrigation scheme Shortage of water / Obstruction of water pass(40pts) <input type="checkbox"/> Problem of intake and keeping water level(20pts) <input checked="" type="checkbox"/> Damage of structure(20pts) <input checked="" type="checkbox"/> Flood effect(10pts) <input type="checkbox"/> Size of area (10 pts, more than 100ha) <input type="checkbox"/> 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 : **Viqueque**

Irrigation scheme :

IRABERE NABO

5-a-21TR

1	No.	21	14		Shortage of Irrigation Water (Frequency)	Every year	✓															
2	Date of Survey	10/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓															
3	Name of Irrigation scheme	IRABERE NABO				Not functional of irrigation structure Climate change (decrease of river flow Others																
4	Name of District	Viqueque			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	✓															
5	Name of Sub-district	Utucurubau			(Contents of damage)	Wash out the land Damage to irrigation structure Others																
6	Name of Suco	IRABIN DESIMA			Shortage of the workers (when plow, transplant, harvest ect) (Reason)																	
6	Name of Aldeia	TARADIGA			Others																	
6	Observing location of the Grid	Free Intake ✓ Intake with gates ✓ Pond/Lake/Spring Weir Others		15	Is there any major problems in the scheme ?																	
6	Grid reference at intake/Pond/lake/spring/pump	X= 248004.65 Y= 9037978.42			Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓															
6	Grid reference in Irr. scheme except for above facility	X= 249315 Y= 9038197			a) In case of YES																	
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	✓															
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?																	
7	/ If Intake →	Length(m)= 20.00 Height(m)= 1.20 Number of span = 1 Width/1span (m)= 6.00 Number of gates= 1			a-3) Name of representative of WG or WUAs																	
7	/ If Canal →	Length of main 3.000 Width(m) for typical 1.00 Height(m)= 1.00			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No																
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			/ 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																
8	Number of house hold in service area	218			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 % % for years % for years																
9	Actual irrigation area (ha)	include "21"			/ if respondent select above "✓" Yes", How change of fee?	Increase Decrease % for years																
10	Original or planned irrigation area (ha)	364.0			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓															
11	Original constructed year	Year's 2000s Exact year Rehabilitated year			a-7) How often are the meeting held in a year?																	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			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																
12	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			16	Opinion or request by interviewee																
12	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			<p>● Evaluation of Irrigation scheme</p> <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>50</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>B</td> </tr> </table> <p>* 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)</p> <p>● Location of Irrigation Scheme</p>  	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	
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																			
Remarks : describe supplemental and/or new information, if any																						

District : **Viqueque**

Irrigation scheme :

NUBERE

5-a-22TR

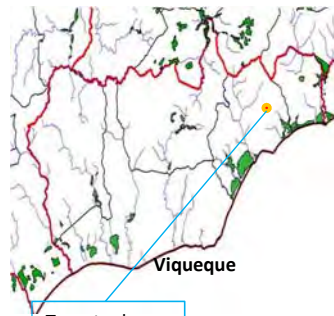

1	No.	22	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	10/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	NUBERE				A few in 10 years	
4	Name of District	Viqueque				Not functional of irrigation structure	
5	Name of Sub-district	Uatucarbau				Climate change (decrease of river flow)	
6	Name of Suco	LUIULU				Others	
6	Name of Aldeia	DIHIHARI			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year
6	Observing location of the Grid	Free Intake				A few in 5 years	
6		Intake with gates	✓			A few in 10 years	
6		Pond/Lake/Spring				(Contents of damage)	Wash out the land
6		Weir					Damage to irrigation structure
6		Others					Others
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 245628.8					Shortage of the workers (when plow, transplant, harvest ect) (Reason)
6		Y= 9039300.8					Others
6	Grid reference in Irr. scheme except for above facility	X= 245332					
6		Y= 9038545					
7	What kind of structure?	Weir			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes
7		Intake	✓				No
7		Canal	✓			a) In case of YES	
7		Pond/Lake				a-1) What kind of the WG or WUAs ?	WUAs
7		Others					Traditional WG
7	/ If Weir→	Length(m)=					Others
7		Height(m)=				a-2) How many number of WG or WUAs in the irrigation scheme ?	
7		Width/1span (m)=				a-3) Name of representative of WG or WUAs	
7		Number of span =				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes
7		Number of gates=					No
7	/ If Intake→	Length(m)=				/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash
7		Height(m)=					US\$/HH as member ship fee
7		Number of span =					US\$/ha as water fee
7		Width/1span (m)=					by Rice
7		Number of gates=					kg/HH as member ship fee
7	/ If Canal→	Length of main	3,000			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
7		Width(m) for typical					No
7		Height(m)=				/ if respondent select above "✓" Yes", How change of fee?	Increase
7	/ If Pond or lake→	Diameter of Pond(m) =					%
7		Depth(m)=					for years
7		Number of Pond =					Decrease
7							%
7							for years
8	Number of house hold in service area	779				a-6) What is	Gate operation
9	Actual irrigation area (ha)	92					Gate maintenance
10	Original or planned irrigation area (ha)	95.0					Canal Cleaning
11	Original constructed year	Year's					Canal Rehabilitation
11		Exact year					Others
11		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)
12		River Water	✓				The WG or WUAs is under establishment. (Expected establishment year)
12		Under Ground Water					Not required to establish (Reason)
12		Others					Already expired (Reason)
12	If respondent select above "✓ river water" , show the type of irrigation facility	Weir (concrete)					Others
12		Weir (Wooden)					
12		Free intake					
12		Intake with Gates	✓				
12		Pond/Lake					
12		Canal					
12		Others					
12	If respondent select above "✓ Canal" , show the type of canal	Concrete				16	Opinion or request by interviewee
12		Wet Masonry	✓				
12		Earth/Soil	✓				
12		Others					
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake				●Evaluation of Irrigation scheme	
13		Broken				Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)
13		Not functional by deterioration					Damage of structure(20pts)
13		Cannot operate the gate					Flood effect(10pts)
13		Cannot keep the water level for some reasons (Details)					
13		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)	Total Points
13		High maintenance cost of structure (Annual Cost US\$)					40
13		(Contents of maintenance with high cost)					
13		others					
13		Problems on Canal	✓			Evaluation of degree on immediate treatment	
13		Broken	✓			C	
13		Not functional by deterioration				* Evaluation criteria	
13		Cannot operate the gate				A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)	
13		Cannot flow the water for some reasons (Details)				B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)	
13		Obstruction of sand/stone (sedimentation)	✓			C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)	
13		High maintenance cost of structure (Annual Cost US\$)				●Location of Irrigation Scheme	
13		(Contents of maintenance with high cost)					
13		Others					
13		Problems on Pond/Lake					
13		Broken					
13		Not functional by deterioration					
13		Cannot operate the outlet gate					
13		Cannot keep the water in pond for some reasons (Details)					
13		High maintenance cost of structure (Annual Cost US\$)					
13		(Contents of maintenance with high cost)					
13		Others					
13		Problems on the other facilities					
13							
Remarks : describe supplemental and/or new information, if any							

District : **Viqueque**

Irrigation scheme :

OUTOKU

5-a-23TR

1	No.	23	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	12/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	OUTOKU				A few in 10 years	
4	Name of District	Viqueque				Not functional of irrigation structure	✓
	Name of Sub-district	Wattari				Climate change (decrease of river flow)	
5	Name of Suco	VESSORU				Others	
	Name of Aldeia	VANIUMA			Is there any major problems in the scheme ?		
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others			(Frequency)	Every year	✓
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 239346 Y= 9032777			(Contents of damage)	A few in 5 years	
	Grid reference in Irr. scheme except for above facility	X= 239705 Y= 9032101				A few in 10 years	
7	What kind of structure?	Weir Intake Canal ✓ Pond/Lake Others			Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Wash out the land	✓
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			Others	Damage to irrigation structure	✓
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=				Others	
	/ If Canal→	Length of main 1.200 Width(m) for typical 1.50 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	1,783			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No
9	Actual irrigation area (ha)	282			a) In case of YES		
10	Original or planned irrigation area (ha)	367.0			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG ✓ Others	
11	Original constructed year	Year's Before 1970 Exact year Rehabilitated year			a-2) How many number of WG or WUAs in the irrigation scheme ?		
	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			a-3) Name of representative of WG or WUAs		
	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			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			/ 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	
12	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			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	
		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			/ if respondent select above "Yes", How change of fee?	Increase % Decrease % for years	
		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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
		Problems on the other facilities			a-7) How often are the meeting held in a year?		
13					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	
					● 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 : **Viqueque**

Irrigation scheme :

SURILALE

5-a-24TR

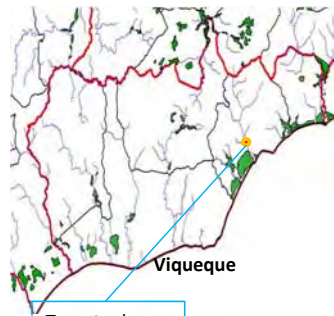

1	No.	24	14				
2	Date of Survey	12/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)			
3	Name of Irrigation scheme	SURILALE		(Cause or Reason)			
4	Name of District	Viqueque		Flood Damage to irrigation scheme (Frequency)			
5	Name of Suco	VESSURO		(Contents of damage)			
6	Name of Aldeia	VANIUMA		Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
6	Observing location of the Grid	Free Intake		✓			
		Intake with gates					
6	Grid reference at intake/Pond/lake/spring/pump	X=	239346				
		Y=	9032777				
6	Grid reference in Irr. scheme except for above facility	X=	239705				
		Y=	9032101				
7	What kind of structure?	Weir		15 Is there any Water Group (WG) or Water User Associations (WUAs) ?			
8	Number of house hold in service area	Intake		a) In case of YES			
		Canal	✓	a-1) What kind of the WG or WUAs ?			
		Pond/Lake		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Others		a-3) Name of representative of WG or WUAs			
		/ If Weir→	Length(m)=		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		
			Height(m)=		/ if respondent select above "✓" Yes", which way do farmers pay the above fee?		
			Width/1span (m)=		by Cash		
			Number of span =		by Rice		
			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 ?		
		/ If Intake→	Length(m)=		/ if respondent select above "✓" Yes", How change of fee?		
			Height(m)=		a-6) What is		
			Number of span =		Gate operation		
	Width/1span (m)=		Gate maintenance				
	Number of gates=		Canal Cleaning				
	/ If Canal→	Length of main	1.200	Canal Rehabilitation			
		Width(m) for typical	1.50	Others			
		Height(m)=	1.20	a-7) How often are the meeting held in a year?			
	/ If Pond or lake→	Diameter of Pond(m) =		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.			
		Depth(m)=		The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)			
		Number of Pond =		The WG or WUAs is under establishment. (Expected establishment year)			
8	Number of house hold in service area	1,783	Not required to establish (Reason)				
9	Actual irrigation area (ha)	Include "23"	Already expired (Reason)				
10	Original or planned irrigation area (ha)	367.0	Others				
11	Original constructed year	Year's	Before 1970	Opinion or request by interviewee			
		Exact year					
		Rehabilitated year					
12	Which type of the water source ?	Spring	✓				
		River Water	✓				
		Under Ground Water					
		Others					
		12	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)			
				Weir (Wooden)			
				Free intake			
				Intake with Gates			
				Pond/Lake			
				Canal	✓		
		12	If respondent select above "✓ Canal", show the type of canal	Concrete			
				Wet Masonry			
Earth/Soil	✓						
Others							
13				Problems on Weir or Intake	✓	● Evaluation of Irrigation scheme	
				Broken	✓	Shortage of water / Obstruction of water pass(40pts)	
		Not functional by deterioration	✓	Problem of intake and keeping water level(20pts)			
		Cannot operate the gate		Damage of structure(20pts)			
		Cannot keep the water level for some reasons (Details)		Flood effect(10pts)			
		Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		Total Points			
		others		Evaluation of degree on immediate treatment			
		Problems on Canal	✓	* Evaluation criteria			
		Broken	✓	A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Not functional by deterioration	✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Cannot flow the water for some reasons (Details)		● Location of Irrigation Scheme			
		Obstruction of sand/stone (sedimentation)	✓	(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on Pond/Lake		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
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		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Cannot operate the outlet gate		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
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		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
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		Broken		(Image showing irrigation map and field)			
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		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			
		Problems on the other facilities		(Image showing irrigation map and field)			
		Broken		(Image showing irrigation map and field)			
		Not functional by deterioration		(Image showing irrigation map and field)			
		Cannot operate the outlet gate		(Image showing irrigation map and field)			
		Cannot keep the water in pond for some reasons (Details)		(Image showing irrigation map and field)			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)		(Image showing irrigation map and field)			
		Others		(Image showing irrigation map and field)			

District : **Viqueque**

Irrigation scheme :

IRATOKORO

5-a-25TR

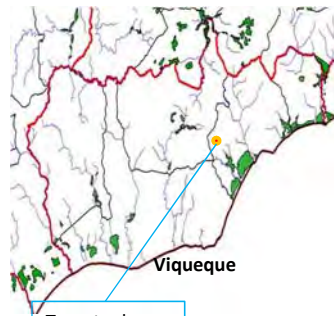

1	No.	25	14			
2	Date of Survey	11/1/2014	Is there any major problems in the scheme ? (Frequency) (Cause or Reason) (Contents of damage) Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	Shortage of Irrigation Water (Frequency) Every year ✓ A few in 5 years ✓ A few in 10 years ✓ (Cause or Reason) Not functional of irrigation structure ✓ Climate change (decrease of river flow) ✓ Others		
3	Name of Irrigation scheme	IRATOKORO		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		
4	Name of District	Viqueque				
5	Name of Sub-district	Wattari				
6	Name of Suco	BABULU				
6	Name of Aldeia	BELYDARLARI				
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= 231680 Y= 9026403				
	Grid reference in Irr. scheme except for above facility	X= 233640 Y= 9025666				
7	What kind of structure?	Weir ✓	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? 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			
8	Number of house hold in service area	68				
9	Actual irrigation area (ha)	40				
10	Original or planned irrigation area (ha)	80.0				
11	Original constructed year	Year's 2000s Exact year 2009 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		● 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 : **Viqueque**

Irrigation scheme :

SALERE MATAHOI

5-a-27TR

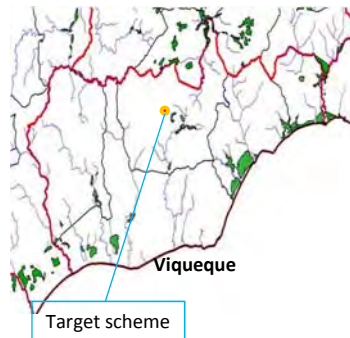

1	No.	27	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	11/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓		
3	Name of Irrigation scheme	SALERE MATAHOI				Not functional of irrigation structure	✓		
4	Name of District	Viqueque				Climate change (decrease of river flow)			
5	Name of Sub-district	Wattari				Others			
6	Name of Suco	MATAHOI			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year		
7	Name of Aldeia	WATULO				(Contents of damage)	A few in 5 years A few in 10 years		
8	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Damage to irrigation structure Others		
9	Grid reference at intake/Pond/lake/spring/pump	X= 225490.06 Y= 9026208.44				Others			
10	Grid reference in Irr. scheme except for above facility	X= 226967 Y= 9023717							
11	What kind of structure?	Weir ✓ Intake Canal Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No		
12	Number of house hold in service area	78			a) In case of YES				
13	Actual irrigation area (ha)	252			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	✓		
14	Original or planned irrigation area (ha)	112.2			a-2) How many number of WG or WUAs in the irrigation scheme ?				
15	Original constructed year	Year's Exact year Rehabilitated year			a-3) Name of representative of WG or WUAs				
16	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No			
17	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 "Yes", which way do farmers pay the above fee?	by Cash US\$/HH as member ship fee US\$/ha as water fee			
18	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			/ if respondent select above "Yes", which way do farmers pay the above fee?	by Rice kg/HH as member ship fee kg/ha as water fee			
19	Number of house hold in service area	78			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			
20	Actual irrigation area (ha)	252			/ if respondent select above "Yes", How change of fee?	Increase % Decrease % for years			
21	Original or planned irrigation area (ha)	112.2			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓		
22	Original constructed year	Year's Exact year Rehabilitated year			a-7) How often are the meeting held in a year?				
23	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			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			
24	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			16	Opinion or request by interviewee			
25	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others							
26	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			13	● Evaluation of Irrigation scheme			
27	Remarks : describe supplemental and/or new information, if any					Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
28						Size of area (10 pts, more than 100ha)		Total Points	60
29						Evaluation of degree on immediate treatment			
30						* 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)			
31						● Location of Irrigation Scheme			
32						 			

District : **Viqueque**

Irrigation scheme :

MOA EMI


5-a-28TR

1	No.	28	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	13/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	MOA EMI				A few in 10 years	
4	Name of District	Viqueque				Not functional of irrigation structure	✓
	Name of Sub-district	Ossu				Climate change (decrease of river flow)	
5	Name of Suco	OSSURUA				Others	
	Name of Aldeia	UMAMERE					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years
	Grid reference at intake/Pond/lake/spring/pump	X= 214378.4 Y= 9032303.32				(Contents of damage)	Wash out the land ✓ Damage to irrigation structure ✓ Others
	Grid reference in Irr. scheme except for above facility	X= 214939 Y= 9031744				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others
7	What kind of structure?	Weir ✓ Intake Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No	
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG ✓ Others	
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?		
	/ If Canal→	Length of main 2,000 Width(m) for typical 0.60 Height(m)= 0.70			a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		
8	Number of house hold in service area	411			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
9	Actual irrigation area (ha)	65			/ 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	
10	Original or planned irrigation area (ha)	334.0			by Rice kg/HH as member ship fee kg/ha as water fee		
11	Original constructed year	Year's 2000s Exact year Rehabilitated year			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 % for years	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			/ if respondent select above "✓ Yes", How change of fee?	Increase Decrease % for years	
	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?		
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		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 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	
							
						Target scheme	
Remarks : describe supplemental and/or new information, if any							

District : 0

Irrigation scheme : 0

5-a-29TR

1	No.	29	14		Shortage of Irrigation Water (Frequency)	Every year A few in 5 years A few in 10 years			
2	Date of Survey				(Cause or Reason)	Not functional of irrigation structure Climate change (decrease of river flow) Others			
3	Name of Irrigation scheme				Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years			
4	Name of District				(Contents of damage)	Wash out the land Damage to irrigation structure Others			
5	Name of Suco				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others			
6	Name of Aldeia				Is there any major problems in the scheme ?				
6	Observing location of the Grid	Free Intake			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes		
		Intake with gates					No		
		Pond/Lake/Spring					a) In case of YES		
		Weir					a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others	
		Others					a-2) How many number of WG or WUAs in the irrigation scheme ?		
	Grid reference at intake/Pond/lake/spring/pump		X=					a-3) Name of representative of WG or WUAs	
	Grid reference in Irr. scheme except for above facility		Y=					a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No
			X=					/ 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
			Y=						by Rice kg/HH as member ship fee kg/ha as water fee
	7	What kind of structure?	Weir					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
		Intake			/ if respondent select above "☑ Yes", How change of fee?	Increase % for years			
		Canal				Decrease % for years			
		Pond/Lake			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others			
		Others			a-7) How often are the meeting held in a year?				
	/ If Weir→	Length(m)=			16	Opinion or request by interviewee			
		Height(m)=					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)	
		Width/1span (m)=						The WG or WUAs is under establishment. (Expected establishment year)	
		Number of span =						Not required to establish (Reason)	
	/ If Intake→	Length(m)=						Already expired (Reason)	
		Height(m)=						Others	
		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			16	Opinion or request by interviewee			
		River Water					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)	
		Under Ground Water						The WG or WUAs is under establishment. (Expected establishment year)	
		Others						Not required to establish (Reason)	
	If respondent select above "☑ river water", show the type of irrigation facility	Weir (concrete)						Already expired (Reason)	
		Weir (Wooden)						Others	
		Free intake							
		Intake with Gates							
		Pond/Lake							
		Canal							
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			● Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration			Size of area (10 pts, more than 100ha)		Total Points		
		Cannot operate the gate			Evaluation of degree on immediate treatment				
		Cannot keep the water level for some reasons (Details)			* Evaluation criteria				
		Obstruction of sand/stone (sedimentation)			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		High maintenance cost of structure (Annual Cost US\$)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		(Contents of maintenance with high cost)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		others			● Location of Irrigation Scheme				
		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									

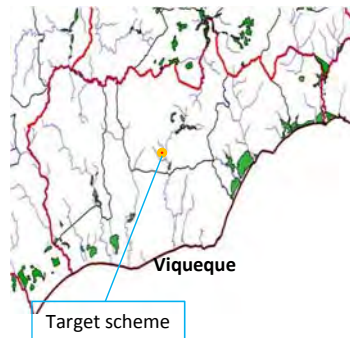

Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

FUTUDU

5-a-30TR


1	No.	30	14					
2	Date of Survey	13/1/2014	Is there any major problems in the scheme ? (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, transplant, harvest ect) (Reason) Others					
3	Name of Irrigation scheme	FUTUDU						
4	Name of District	Viqueque						
4	Name of Sub-district	Ossu						
5	Name of Suco	UABUBU						
5	Name of Aldeia	BUANURAK						
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=	211967					
		Y=	9024606					
	Grid reference in Irr. scheme except for above facility	X=	211428					
		Y=	9023627					
	7	What kind of structure?	Weir	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? 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 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.				
	Intake							
	Canal	✓						
	Pond/Lake							
	Others							
	/ If Weir→	Length(m)= 10.0 Height(m)= 3.00 Width/1span (m)= 22.00 Number of span = 1 Number of gates= 1						
	/ If Intake→	Length(m)= 10.00 Height(m)= 1.60 Number of span = 1 Width/1span (m)= 0.95 Number of gates=						
	/ If Canal→	Length of main 1.000 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	78						
9	Actual irrigation area (ha)	39						
10	Original or planned irrigation area (ha)	34.0						
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	✓					
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		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 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  			
		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 keep 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								

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

District : 0

Irrigation scheme : 0

5-a-31TR

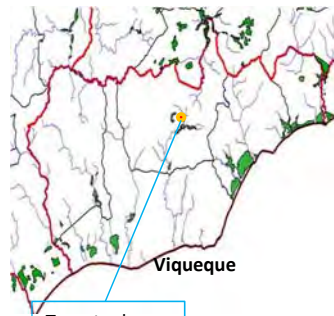

1	No.	31	14		
2	Date of Survey				
3	Name of Irrigation scheme				
4	Name of District				
	Name of Sub-district				
5	Name of Suco				
	Name of Aldeia				
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	Is there any major problems in the scheme ?	Shortage of 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	
	Grid reference at intake/Pond/lake/spring/pump	X= Y=		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	
	Grid reference in Irr. scheme except for above facility	X= Y=		Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	
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	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? 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	•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 : **Viqueque**

Irrigation scheme :

RAUMATA

5-a-32TR

1	No.	32	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	13/1/2014			(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	RAUMATA				A few in 10 years	
4	Name of District	Viqueque				Not functional of irrigation structure	✓
	Name of Sub-district	Ossu				Climate change (decrease of river flow)	
5	Name of Suco	UAGEIA				Others	
	Name of Aldeia	LUHABERA					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years
	Grid reference at intake/Pond/lake/spring/pump	X= 216685 Y= 9030460				(Contents of damage)	Wash out the land Damage to irrigation structure ✓ Others
	Grid reference in Irr. scheme except for above facility	X= 216789 Y= 9030446				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others
7	What kind of structure?	Weir ✓ Intake Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes ✓ No	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG ✓ Others	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?		
	/ If Canal →	Length of main 800 Width(m) for typical 0.70 Height(m)= 0.35			a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			a-3) Name of representative of WG or WUAs		
8	Number of house hold in service area	67			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
9	Actual irrigation area (ha)	76			/ 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	
10	Original or planned irrigation area (ha)	37.0			by Rice kg/HH as member ship fee kg/ha as water fee		
11	Original constructed year	Year's Exact year Rehabilitated year			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 % for years	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			/ if respondent select above "✓ Yes", How change of fee?	Increase Decrease % for years	
	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			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			a-7) How often are the meeting held in a year?		2
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		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  		

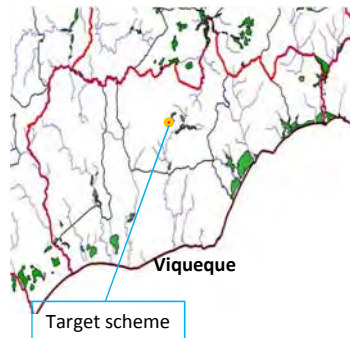

Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

HAENAO

5-a-33TR

1	No.	33	14		Shortage of Irrigation Water (Frequency)	Every year	✓																
2	Date of Survey	13/1/2014			(Cause or Reason)	A few in 5 years	✓																
3	Name of Irrigation scheme	HAENAO				A few in 10 years																	
4	Name of District	Viqueque				Not functional of irrigation structure	✓																
	Name of Sub-district	Ossu				Climate change (decrease of river flow)																	
5	Name of Suco	OSSURUA				Others																	
	Name of Aldeia	WATULAWA																					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year ✓ A few in 5 years ✓ A few in 10 years																
	Grid reference at intake/Pond/lake/spring/pump	X= 214305.7 Y= 9030598.75				(Contents of damage)	Wash out the land Damage to irrigation structure ✓ Others																
	Grid reference in Irr. scheme except for above facility	X= 214170 Y= 9030056				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others																
7	What kind of structure?	Weir ✓ Intake Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓																
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG ✓ Others																	
	/ If Intake →	Length(m)= Height(m)= 1.00 Number of span = 1 Width/1span (m)= 1.20 Number of gates= 2			a-1) What kind of the WG or WUAs ?																		
	/ If Canal →	Length of main 1.000 Width(m) for typical 0.85 Height(m)= 1.00			a-2) How many number of WG or WUAs in the irrigation scheme ?		1																
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			a-3) Name of representative of WG or WUAs		DOMINGOS GOMES DA SILVA																
8	Number of house hold in service area	52			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No ✓																	
9	Actual irrigation area (ha)	57			/ 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																	
10	Original or planned irrigation area (ha)	50.0			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 No Increase % Decrease % for years																	
11	Original constructed year	Year's 2010s Exact year Rehabilitated year			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years																	
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation 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			a-7) How often are the meeting held in a year?		2																
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ Others			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																	
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		16	Opinion or request by interviewee	● Evaluation of Irrigation scheme <table border="1"> <tr> <td>Shortage of water / Obstruction of water pass(40pts)</td> <td>Problem of intake and keeping water level(20pts)</td> <td>Damage of structure(20pts)</td> <td>Flood effect(10pts)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Size of area (10 pts, more than 100ha)</td> <td>Total Points</td> <td>50</td> </tr> <tr> <td colspan="3">Evaluation of degree on immediate treatment</td> <td>B</td> </tr> </table> <p>* 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)</p> ● Location 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
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																				

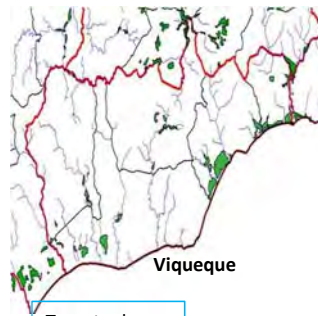
Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

HUKALALE

5-a-34TR

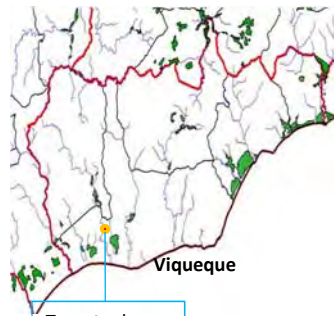

1	No.	34	14		
2	Date of Survey	13/1/2014	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	
3	Name of Irrigation scheme	HUKALALE		(Cause or Reason)	
4	Name of District	Viqueque		Flood Damage to irrigation scheme (Frequency)	
5	Name of Suco	Ossu		(Contents of damage)	
6	Name of Aldeia			Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
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	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=	a) In case of YES		
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=	a-1) What kind of the WG or WUAs ?		
	/ If Canal→	Length of main Width(m) for typical Height(m)=	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =	a-3) Name of representative of WG or WUAs		
8	Number of house hold in service area	103	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		
9	Actual irrigation area (ha)	none	/ if respondent select above "Yes", which way do farmers pay the above fee?		
10	Original or planned irrigation area (ha)	70.0	a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		
11	Original constructed year	Year's Exact year Rehabilitated year	/ if respondent select above "Yes", How change of fee?		
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others	a-6) What is		
	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	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others		
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others	a-7) How often are the meeting held in a year?		
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	16	Opinion or request by interviewee - No access to the scheme by vehicle or foot	
			● 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		
					
			NO ACCESS TO THE SCHEME BY /EHICLE OR FOOT		
			Viqueque		
			Target scheme		
Remarks : describe supplemental and/or new information, if any					



District : **Viqueque**

Irrigation scheme :

KUAN LOLIK

5-a-35TR

1	No.	35	14		
2	Date of Survey	24/1/2014	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	
3	Name of Irrigation scheme	KUAN LOLIK		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	
4	Name of District	Viqueque		Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	
5	Name of Suco	LUCA			
	Name of Aldeia	KUMALOR			
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring <input checked="" type="checkbox"/> Weir Others			
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 198373 Y= 9010923			
	Grid reference in Irr. scheme except for above facility	X= 196984 Y= 9009682			
7	What kind of structure?	Weir Intake Canal <input checked="" type="checkbox"/> Pond/Lake <input checked="" type="checkbox"/> Others	15	Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes <input checked="" type="checkbox"/> No	
	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=	a) In case of YES a-1) What kind of the WG or WUAs ? WUAs Traditional WG <input checked="" type="checkbox"/> Others		
	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=	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 Canal→	Length of main Width(m) for typical Height(m)= / If Pond or lake→ Diameter of Pond(m)= Depth(m)= Number of Pond =	/ if respondent select above " <input checked="" type="checkbox"/> 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		
8	Number of house hold in service area	47	a-5) if respondent select above " <input checked="" type="checkbox"/> Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ? Yes No		
9	Actual irrigation area (ha)	include*9*	/ if respondent select above " <input checked="" type="checkbox"/> Yes", How change of fee? Increase % for years Decrease % for years		
10	Original or planned irrigation area (ha)	50.0	a-6) What is Gate operation Gate maintenance Canal Cleaning <input checked="" type="checkbox"/> Canal Rehabilitation Others		
11	Original constructed year	1990s	a-7) How often are the meeting held in a year? 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		
12	Which type of the water source ?	Spring River Water Under Ground Water Others	b) In case of Not respondent select " <input checked="" type="checkbox"/> No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.		
	If respondent select above " <input checked="" type="checkbox"/> river water" , show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others	16 Opinion or request by interviewee		
	If respondent select above " <input checked="" type="checkbox"/> Canal" , show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> 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					

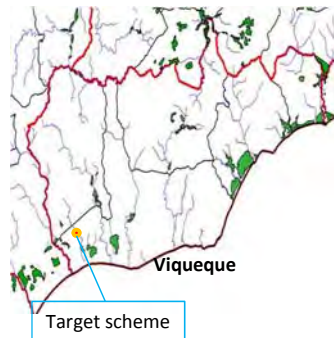

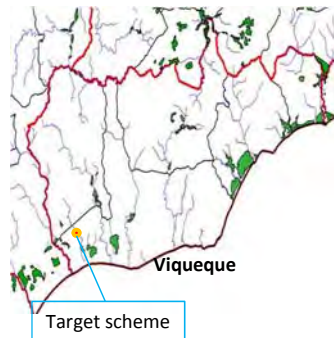

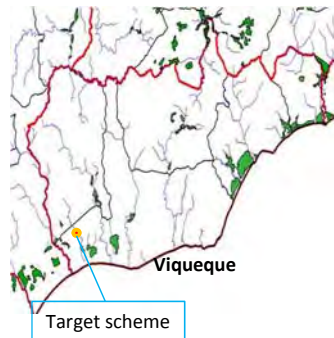

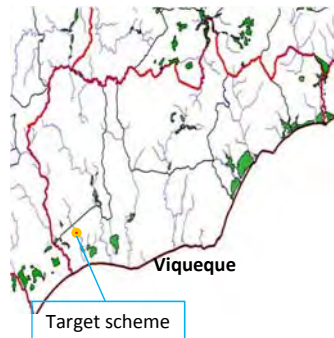

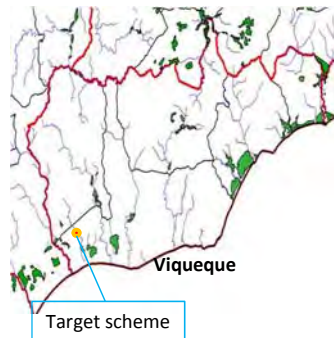

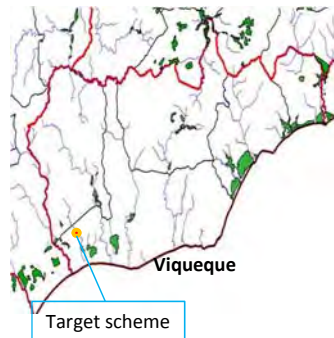

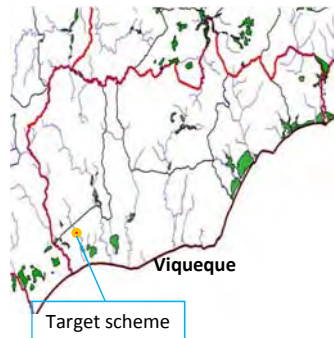

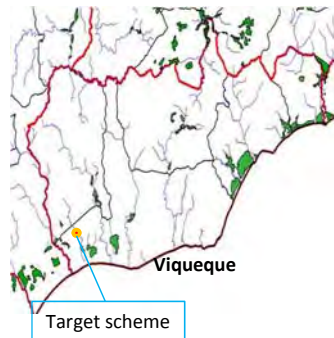

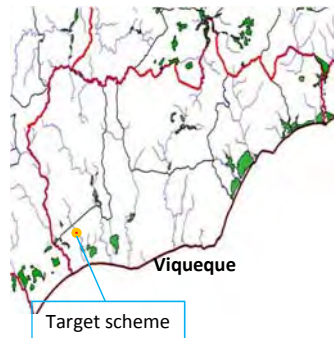

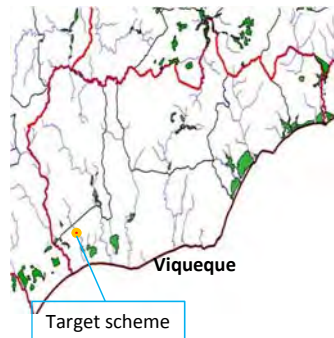

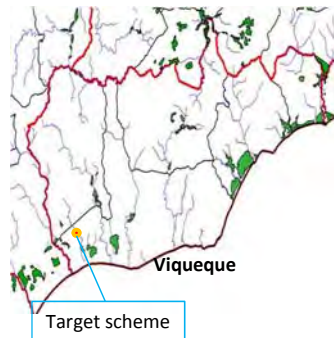

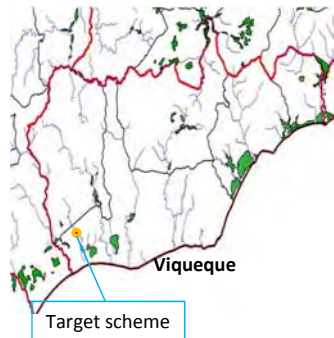

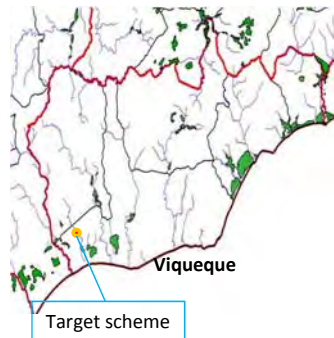

1	No.	37	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	14/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓			
3	Name of Irrigation scheme	WEDARE				Not functional of irrigation structure Climate change (decrease of river flow Others				
4	Name of District	Viqueque			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)				
5	Name of Suco	LUCA				(Contents of damage)				
6	Name of Aldeia	IRAMER				Wash out the land Damage to irrigation structure Others				
6	Observing location of the Grid	Free Intake	✓		15	Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others			
		Intake with gates								
		Pond/Lake/Spring								
		Weir								
		Others								
	Grid reference at intake/Pond/lake/spring/pump		X=	197525			16	Opinion or request by interviewee		
			Y=	9011068						
	Grid reference in Irr. scheme except for above facility		X=	197359						
			Y=	9010846						
	7	What kind of structure?	Weir							Is there any Water Group (WG) or Water User Associations (WUAs) ?
		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		- THOMAS GUTERRRES			
		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 US\$/ha as water fee			
		Height(m)=			by Rice	kg/HH as member ship fee kg/ha as water fee				
		Number of span =			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/1span (m)=			No					
		Number of gates=			/ if respondent select above "✓ Yes", How change of fee?	Increase	% for years			
	/ If Canal→	Length of main	500			Decrease	% for years			
		Width(m) for typical	1.00		a-6) What is					
		Height(m)=	0.50		Gate operation					
	/ If Pond or lake→	Diameter of Pond(m) =			Gate maintenance					
		Depth(m)=			Canal Cleaning	✓				
		Number of Pond =			Canal Rehabilitation					
8	Number of house hold in service area	46			Others					
9	Actual irrigation area (ha)	include*9*			a-7) How often are the meeting held in a year?		2			
10	Original or planned irrigation area (ha)	100.0			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				
11	Original constructed year	Year's Exact year Rehabilitated year								
12	Which type of the water source ?	Spring	✓		16	Opinion or request by interviewee				
		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								
If respondent select above "✓ Canal" , show the type of canal	Canal	✓								
	Others									
	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			●Evaluation of Irrigation scheme					
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)		
		Not functional by deterioration			Size of area (10 pts, more than 100ha)		Total Points	30		
		Cannot operate the gate			Evaluation of degree on immediate treatment					
		Cannot keep the water level for some reasons (Details)			* Evaluation criteria					
		Obstruction of sand/stone (sedimentation)			A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)					
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)					
		others			C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)					
		Problems on Canal		✓		●Location of Irrigation Scheme				
		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										

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

District : **Viqueque**

Irrigation scheme : **AEDAK TURKAKEULUAN**

5-a-38TR

1	No.	38	14		Shortage of Irrigation Water (Frequency)	Every year	✓						
2	Date of Survey	14/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓						
3	Name of Irrigation scheme	AEDAK TURKAKEULUAN			(Contents of damage)	Not functional of irrigation structure Climate change (decrease of river flow) Others							
4	Name of District	Viqueque			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years						
5	Name of Suco	LUCA				(Contents of damage)	Wash out the land Damage to irrigation structure Others						
6	Name of Aldeia	IRAMER				Shortage of the workers (when plow, transplant, harvest ect) (Reason)	Others						
6	Observing location of the Grid	Free Intake	✓		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓					
		Intake with gates					No						
		Pond/Lake/Spring					a) In case of YES						
		Weir					a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others					
		Others					a-2) How many number of WG or WUAs in the irrigation scheme ?	1					
	Grid reference at intake/Pond/lake/spring/pump	X=	188923				a-3) Name of representative of WG or WUAs	- JORGE AMARAL					
		Y=	9009855				a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No					
		Grid reference in Irr. scheme except for above facility	X=	189390				/ 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				
			Y=	9009107				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 Decrease		% % for years										
a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		✓										
7	What kind of structure?	Weir			a-7) How often are the meeting held in a year?	2							
8	Number of house hold in service area	26			16	Opinion or request by interviewee							
9	Actual irrigation area (ha)	42		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)					
10	Original or planned irrigation area (ha)	20.0						Under Ground Water	The WG or WUAs is under establishment. (Expected establishment year)				
11	Original constructed year	Year's						Others	Not required to establish (Reason)				
		Exact year						Already expired (Reason)					
		Rehabilitated year						Others					
	Which type of the water source ?	Spring							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		
		River Water	✓									• 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  	
Under Ground Water			• 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  										
Others								• 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  					
Weir (concrete)					• 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  								
Weir (Wooden)				• 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  									
Free 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 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  							
Intake with Gates							• 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  						
Pond/Lake													• 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  
Canal													
Others									• 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  				
Concrete										• 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  			
Wet Masonry			• 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  										
Earth/Soil	✓							• 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  					
Others					• 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  								

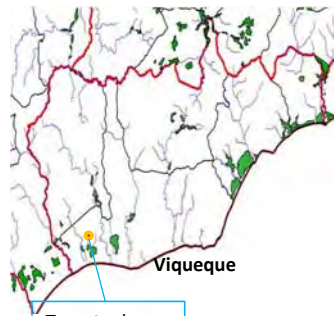

Remarks : describe supplemental and/or new information, if any

District : **Viqueque**

Irrigation scheme :

BUKU

5-a-40TR

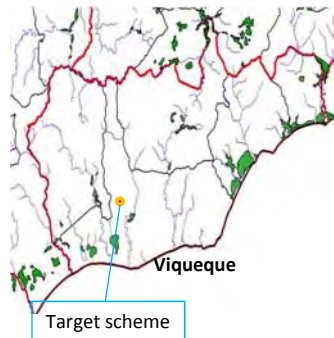

1	No.	40	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	14/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years Not functional of irrigation structure Climate change (decrease of river flow) Others	✓
3	Name of Irrigation scheme	BUKU			Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	
4	Name of District	Viqueque			(Contents of damage)	Wash out the land Damage to irrigation structure Others	
4	Name of Sub-district	Viqueque			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
5	Name of Suco	LUCA			Others		
5	Name of Aldeia	UMA-BOOT					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?		
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 192695 Y= 9011874					
	Grid reference in Irr. scheme except for above facility	X= 192357 Y= 9009223					
7	What kind of structure?	Weir ✓ Intake Canal ✓ Pond/Lake Others		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES		
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?	WUAs Traditional WG ✓ Others	
	/ If Canal →	Length of main 1,300 Width(m) for typical 0.70 Height(m)= 0.50			a-2) How many number of WG or WUAs in the irrigation scheme ?		
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		
8	Number of house hold in service area	18			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
9	Actual irrigation area (ha)	272			/ 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	
10	Original or planned irrigation area (ha)	612.0			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 No % % % for years	
11	Original constructed year	Year's Exact year Rehabilitated year			/ if respondent select above "✓" Yes", How change of fee?	Increase Decrease % % for years	
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation 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			a-7) How often are the meeting held in a year?		
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry Earth/Soil ✓ Others			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	
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		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		
							
					Target scheme		
Remarks : describe supplemental and/or new information, if any							

District : **Viqueque**

Irrigation scheme :

WELAKU BEIN

5-a-41TR

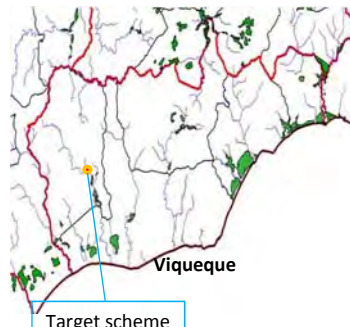

1	No.	41	14			
2	Date of Survey	24/1/2014	Shortage of Irrigation Water (Frequency) Every year A few in 5 years A few in 10 years (Cause or Reason) Not functional of irrigation structure Climate change (decrease of river flow) Others			
3	Name of Irrigation scheme	WELAKU BEIN				
4	Name of District	Viqueque				
4	Name of Sub-district	Viqueque				
5	Name of Suco	BAHALARAWAIN				
5	Name of Aldeia	WELALEO				
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir 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, transplant, harvest ect) (Reason) Others		
	Grid reference at intake/Pond/lake/spring/pump	X= 202181 Y= 9015413				
	Grid reference in Irr. scheme except for above facility	X= 201889 Y= 9015129				
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	165				
9	Actual irrigation area (ha)	include 36*				
10	Original or planned irrigation area (ha)	124.0				
11	Original constructed year	Year's 2010s Exact year Rehabilitated year 2012				
12	Which type of the water source ?	Spring River Water Under Ground Water Others	Is there any major problems in the scheme ? Is there any Water Group (WG) or Water User Associations (WUAs) ? a) In case of YES a-1) What kind of the WG or WUAs ? 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? / if respondent select above "X" Yes", which way do farmers pay the above fee? a-5) if respondent select above "X" Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ? / if respondent select above "X" Yes", How change of fee? a-6) What is a-7) How often are the meeting held in a year? b) In case of Not respondent select "X" No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.			
	If respondent select above "X" 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 "X" 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				
				16 Opinion or request by interviewee		
				17 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)		
				18 Location of Irrigation Scheme  		
Remarks : describe supplemental and/or new information, if any						

District : **Viqueque**

Irrigation scheme :

NAHAK SADIK

5-a-42TR

1	No.	42	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	12/1/2014			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	NAHAK SADIK			(Contents of damage)	Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Viqueque			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year
5	Name of Sub-district	Lacluta				(Reason)	A few in 5 years A few in 10 years
6	Name of Suco	DILOR				Shortage of the workers (when plow, transplant, harvest ect)	
6	Name of Aldeia	RADIUMA				Others	
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others					
6	Grid reference at intake/Pond/lake/spring/pump	X= 191501.69 Y= 9021927.99					
6	Grid reference in Irr. scheme except for above facility	X= 191597 Y= 9021728					
7	What kind of structure?	Weir ✓ Intake Canal Pond/Lake Others			15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	a-1) What kind of the WG or WUAs ?	WUAs Traditional WG Others
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?	a-3) Name of representative of WG or WUAs	
7	/ If Canal →	Length of main 1.042 Width(m) for typical 0.60 Height(m)= 0.80			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			/ 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	
8	Number of house hold in service area	22			by Rice kg/HH as member ship fee kg/ha as water fee		
9	Actual irrigation area (ha)	39			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	
10	Original or planned irrigation area (ha)	30.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease %	
11	Original constructed year	Year's 2010s Exact year 2010 Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-7) How often are the meeting held in a year?		
12	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			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	
12	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil ✓ 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							

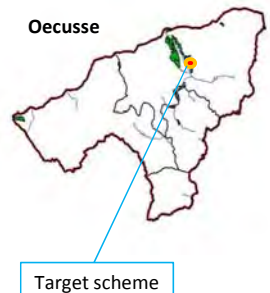

13. Oecusse

District : **Oecusse**

Irrigation scheme :

TONO

7-a-1TC

1	No.	1	14						
2	Date of Survey	13/12/2013		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				
3	Name of Irrigation scheme	TONO							
4	Name of District	Oecusse							
4	Name of Sub-district	Pante Macassar							
5	Name of Suco	CUNHA							
5	Name of Aldeia	NOENINIM							
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= 648597 Y= 8974977						
Grid reference in Irr. scheme except for above facility		X= 648801 Y= 8975327							
7	What kind of structure?	Weir	✓	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 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?				
	Intake	✓							
	Canal	✓							
	Pond/Lake								
	Others								
	/ If Weir→	Length(m)= 71.0 Height(m)= 1.00 Width/1span (m)= 0.80 Number of span = 1 Number of gates=							
	/ If Intake→	Length(m)= Height(m)= 1.00 Number of span = 1 Width/1span (m)= 0.80 Number of gates=							
	/ If Canal→	Length of main 139 Width(m) for typical 0.80 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	100							
9	Actual irrigation area (ha)	37							
10	Original or planned irrigation area (ha)	15.0							
11	Original constructed year	Year's 1980s							
		Exact year 1980							
		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	✓						
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		16	Opinion or request by interviewee	- No budget for Intake maintenance			
		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 * 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 : **Oecusse**

Irrigation scheme :

BARASANTO

7-a-2TC

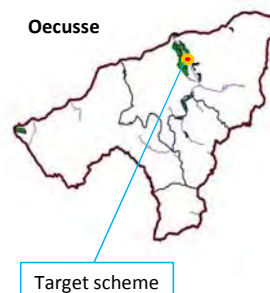

1	No.	2	14		Shortage of Irrigation Water (Frequency)	Every year		
2	Date of Survey	13/12/2013			(Cause or Reason)	A few in 5 years		
3	Name of Irrigation scheme	BARASANTO				A few in 10 years		
4	Name of District	Oecusse				Not functional of irrigation structure		
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)		
5	Name of Suco	LALISUK				Others		
	Name of Aldeia	MANUMPENA						
6	Observing location of the Grid	Free Intake		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates	✓				A few in 5 years	✓
		Pond/Lake/Spring	✓				A few in 10 years	
		Weir				(Contents of damage)	Wash out the land	
		Others					Damage to irrigation structure	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 647592					Others	
		Y= 8977925						
	Grid reference in Irr. scheme except for above facility	X= 647145				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
		Y= 8978409				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	WUAs	✓	
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1	
		Height(m)=			a-3) Name of representative of WG or WUAs		- Benancio Kono	
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No	✓		
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=	5.00		by Rice	US\$/ha as water fee		
		Height(m)=	2.50		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/HH as member ship fee		
		Number of span =	1		Decrease	kg/ha as water fee		
		Width/1span (m)=	5.00		Increase	%		
		Number of gates=	2		Decrease	%		
	/ If Canal→	Length of main	400		/ if respondent select above "✓" Yes", How change of fee?	%		
		Width(m) for typical	0.80			%		
		Height(m)=	0.80		a-6) What is	for years		
	/ If Pond or lake→	Diameter of Pond(m) =			Gate operation	for years	✓	
		Depth(m)=			Gate maintenance			
		Number of Pond =			Canal Cleaning		✓	
8	Number of house hold in service area	45			Canal Rehabilitation		✓	
9	Actual irrigation area (ha)	147			Others			
10	Original or planned irrigation area (ha)	35.0			a-7) How often are the meeting held in a year?		1	
11	Original constructed year	Year's 1970s			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)		
		Exact year 1970				The WG or WUAs is under establishment. (Expected establishment year)		
		Rehabilitated year 2012				Not required to establish (Reason)		
12	Which type of the water source ?	Spring	✓			Already expired (Reason)		
		River Water				Others		
		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	✓	16	Opinion or request by interviewee	- No budget for Weir and Intake maintenance		
		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\$)	500					
		(Contents of maintenance with high cost)	- Gates maintenance					
		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						
Remarks : describe supplemental and/or new information, if any								

District : **Oecusse**

Irrigation scheme :

FATUSENE

7-a-3TC

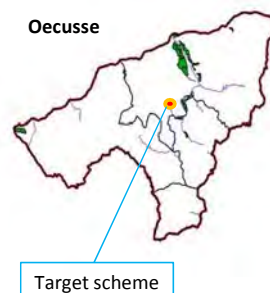

1	No.	3	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	14/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	FATUSENE				Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Oecusse					
5	Name of Sub-district	Pante Macassar					
6	Name of Suco	LALISULI					
6	Name of Aldeia	MANUIPENA					
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others	✓	14	Is there any major problems in the scheme ?	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	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 647608 Y= 8977902					
6	Grid reference in Irr. scheme except for above facility	X= 647069 Y= 8978483				Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	
7	What kind of structure?	Weir Intake Canal Pond/Lake Others	✓ ✓ ✓ ✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
7	/ If Weir→	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a) In case of YES	WUAs Traditional WG Others	✓
7	/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-1) What kind of the WG or WUAs ?		
7	/ If Canal→	Length of main Width(m) for typical Height(m)=	700 1.00 0.80		a-2) How many number of WG or WUAs in the irrigation scheme ?		2
7	/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-3) Name of representative of WG or WUAs		Same as contact person
8	Number of house hold in service area	84			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
9	Actual irrigation area (ha)	Include* 2			/ 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	
10	Original or planned irrigation area (ha)	725.0			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 No Increase % Decrease % for years	✓
11	Original constructed year	Year's 1970s Exact year 1979 Rehabilitated year			/ if respondent select above "Yes", How change of fee?	Increase % Decrease % for years	
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others	✓ ✓
12	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	✓		a-7) How often are the meeting held in a year?		1
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	✓ ✓		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	
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	✓ ✓ ✓	16	Opinion or request by interviewee	- Now the paddy field is empty	
13					●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)	
13						Size of area (10 pts, more than 100ha)	20
13						Evaluation of degree on immediate treatment	C
13						* 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).	
13						●Location of Irrigation Scheme	
13							
13							
Remarks : describe supplemental and/or new information, if any							

District : **Oecusse**

Irrigation scheme :

BETHANAE

7-a-4TC

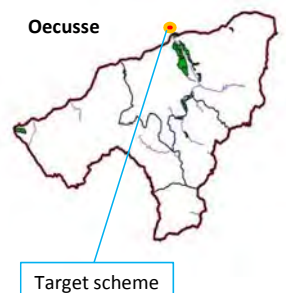

1	No.	4	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	BETHANAE				Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Oecusse					
	Name of Sub-district	Pante Macassar					
5	Name of Suco	CUNHA					
	Name of Aldeia	HAUANA					
6	Observing location of the Grid	Free Intake Intake with gates ✓ Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 644490 Y= 8969028			(Contents of damage)	Wash out the land Damage to irrigation structure Others	
	Grid reference in Irr. scheme except for above facility	X= 644954 Y= 8968973			Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir ✓ Intake ✓ Canal ✓ Pond/Lake Others	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No		✓
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		a) In case of YES	WUAs Traditional WG Others		✓
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-1) What kind of the WG or WUAs ?			
	/ If Canal →	Length of main 400 Width(m) for typical 1.50 Height(m)= 1.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =		a-3) Name of representative of WG or WUAs			
8	Number of house hold in service area	47		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓
9	Actual irrigation area (ha)	18		/ 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		
10	Original or planned irrigation area (ha)	10.0		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 No		✓
11	Original constructed year	Year's 1980s Exact year 1980 Rehabilitated year		/ if respondent select above "✓ Yes", How change of fee?	Increase % Decrease %		
12	Which type of the water source ?	Spring ✓ River Water ✓ Under Ground Water Others		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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		a-7) How often are the meeting held in a year?			3
	If respondent select above "✓ Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil Others		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		
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	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 20 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). C ● Location of Irrigation Scheme  			
Remarks : describe supplemental and/or new information, if any							

District : **Oecusse**

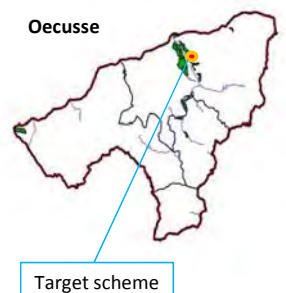

Irrigation scheme :

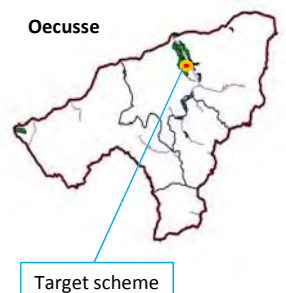

KOLAN SINA

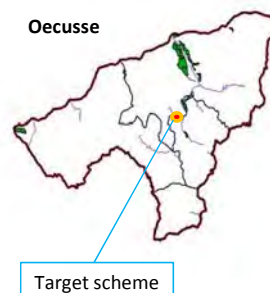

7-a-5TC

1	No.	5	14		Shortage of Irrigation Water (Frequency)	Every year	✓			
2	Date of Survey	14/12/2013			(Cause or Reason)	A few in 5 years				
3	Name of Irrigation scheme	KOLAN SINA				A few in 10 years				
4	Name of District	Oecusse				Not functional of irrigation structure				
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)	✓			
5	Name of Suco	Lifau				Others				
	Name of Aldeia	Postosica								
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓			
		Intake with gates					A few in 5 years	✓		
		Pond/Lake/Spring					A few in 10 years			
		Weir					(Contents of damage)	Wash out the land		
		Others						Damage to irrigation structure	✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 644438 Y= 8982625					Others		
	Grid reference in Irr. scheme except for above facility	X= 644208 Y= 8982577			Shortage of the workers (when plow, transplant, harvest ect) (Reason)					
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)= Height(m)= Width/1span (m)= Number of span = Number of gates=			Others				
		/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?		3			
		/ If Canal →	Length of main 400 Width(m) for typical 0.60 Height(m)= 1.00		a-3) Name of representative of WG or WUAs		- Gasper Nunes			
		/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓			
8	Number of house hold in service area	150			/ 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				
9	Actual irrigation area (ha)	33			by Rice kg/HH as member ship fee kg/ha as water fee					
10	Original or planned irrigation area (ha)	24.0			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 No	✓			
11	Original constructed year	Before 1970 Exact year 1960 Rehabilitated year 2003			/ if respondent select above "Yes", How change of fee?	Increase % for years Decrease % for years				
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation 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	✓ ✓ ✓		a-7) How often are the meeting held in a year?		2			
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil Others	✓ ✓		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				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		✓	Opinion or request by interviewee	- No budget for Intake maintenance				
		Broken		✓			● Evaluation of Irrigation scheme			
		Not functional by deterioration					Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Cannot operate the gate					Size of area (10 pts, more than 100ha)		Total Points	40
		Cannot keep the water level for some reasons (Details)					Evaluation of degree on immediate treatment			
		Obstruction of sand/stone (sedimentation)		✓			* 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).			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)					● Location of Irrigation Scheme			
		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									

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

1	No.	8	14		Shortage of Irrigation Water (Frequency)	Every year			
2	Date of Survey	16/12/2013			(Cause or Reason)	A few in 5 years			
3	Name of Irrigation scheme	OE-COLO				A few in 10 years			
4	Name of District	Oecusse				Not functional of irrigation structure			
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)			
5	Name of Suco	LALISULI				Others			
	Name of Aldeia	TUMEPAT							
6	Observing location of the Grid	Free Intake		15	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year		
		Intake with gates				(Contents of damage)	A few in 5 years		
		Pond/Lake/Spring	✓				A few in 10 years		
		Weir					Wash out the land		
		Others					Damage to irrigation structure		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 648176.91 Y= 8978046.13				Others		
	Grid reference in Irr. scheme except for above facility	X= 648442 Y= 8977984			Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
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)= Height(m)= Width/1span (m)=			Others			
			Number of span =		a-2) How many number of WG or WUAs in the irrigation scheme ?		2		
			Number of gates =		a-3) Name of representative of WG or WUAs		Same as contact person		
		/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes			
						No	✓		
		/ If Canal →	Length of main = 60 Width(m) for typical = 0.50 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		
		/ If Pond or lake →	Diameter of Pond(m) = Depth(m) = Number of Pond =			by Rice	US\$/ha as water fee kg/HH as member ship fee kg/ha as water fee		
8	Number of house hold in service area	40			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			
9	Actual irrigation area (ha)	19				No	✓		
10	Original or planned irrigation area (ha)	18.0			/ if respondent select above "✓" Yes", How change of fee?	Increase	%		
11	Original constructed year	Before 1970				Decrease	%		
		Exact year 1960			a-6) What is		for years		
		Rehabilitated year 2001					for years		
12	Which type of the water source ?	Spring	✓		a-7) How often are the meeting held in a year?		2		
		River Water			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)			
		Under Ground Water				The WG or WUAs is under establishment. (Expected establishment year)			
	If respondent select above "✓" river water", show the type of irrigation facility	Weir (concrete)				Not required to establish (Reason)			
		Weir (Wooden)				Already expired (Reason)			
		Free intake				Others			
		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		✓	● Evaluation of Irrigation scheme				
			Broken	✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
			Not functional by deterioration						
			Cannot operate the gate						
			Cannot keep the water level for some reasons (Details)						
			Obstruction of sand/stone (sedimentation)		Size of area (10 pts, more than 100ha)		Total Points	20	
			High maintenance cost of structure (Annual Cost US\$)						
			(Contents of maintenance with high cost)						
			others						
			Problems on Canal			Evaluation of degree on immediate treatment			
			Broken			* Evaluation criteria			
			Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
			Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
			Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
			Obstruction of sand/stone (sedimentation)			● Location of Irrigation Scheme			
		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			Target scheme				
		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							
Remarks : describe supplemental and/or new information, if any									

1	No.	9	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	16/12/2013				(Cause or Reason)	A few in 5 years A few in 10 years	✓	
3	Name of Irrigation scheme	OE MAT-HITU				Flood Damage to irrigation scheme (Frequency)	Every year A few in 5 years A few in 10 years		
4	Name of District	Oecusse				(Contents of damage)	Wash out the land Damage to irrigation structure Others		
5	Name of Sub-district	Pante Macassar				Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
5	Name of Suco	LALISULI				Others			
5	Name of Aldeia	PADEAE							
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= 648262.36 Y= 8976048.23						
	Grid reference in Irr. scheme except for above facility	X= 648318 Y= 8976207							
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	2.00						
		Height(m)=	8.00						
	/ If Pond or lake→	Diameter of Pond(m) =							
		Depth(m)=							
		Number of Pond =							
8	Number of house hold in service area	84							
9	Actual irrigation area (ha)	1							
10	Original or planned irrigation area (ha)	55.0							
11	Original constructed year	Year's	1970s						
		Exact year	1979						
		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	✓						
	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				●Evaluation of Irrigation scheme			
		Broken				Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration							
		Cannot operate the gate							
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)				Size of area (10 pts, more than 100ha)		Total Points	20
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
		others							
		Problems on Canal				Evaluation of degree on immediate treatment			
		Broken				* Evaluation criteria			
		Not functional by deterioration	✓			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate				B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)				C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/stone (sedimentation)				●Location of Irrigation Scheme			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
	Others								
	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								
Remarks : describe supplemental and/or new information, if any									

1	No.	10	14		Shortage of Irrigation Water (Frequency)	Every year		
2	Date of Survey	15/12/2013			(Cause or Reason)	A few in 5 years		
3	Name of Irrigation scheme	BITANA				A few in 10 years		
4	Name of District	Oecusse				Not functional of irrigation structure		
	Name of Sub-district	Oesilo				Climate change (decrease of river flow)		
5	Name of Suco	USITASAE				Others		
	Name of Aldeia	BUQUI						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year		
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring	✓				A few in 10 years	
		Weir					Wash out the land	
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 646324.95 Y= 8966569.39				Others	
	Grid reference in Irr. scheme except for above facility	X= 646399 Y= 8966426			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
					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	WUAs		
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	Traditional WG	✓	
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		1	
		Height(m)=			a-3) Name of representative of WG or WUAs		- Benancio Kono	
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No	✓		
		Number of gates=			/ if respondent select above "✓ Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=			by Rice	US\$/ha as water fee		
		Height(m)=				kg/HH as member ship fee		
		Number of span =			a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/ha as water fee		
		Width/1span (m)=			Yes		✓	
		Number of gates=			No			
	/ If Canal→	Length of main	700		/ if respondent select above "✓ Yes", How change of fee?	Increase	%	
		Width(m) for typical	0.60			Decrease	%	
		Height(m)=	1.00		a-6) What is		for years	
	/ If Pond or lake→	Diameter of Pond(m) =			Gate operation		✓	
		Depth(m)=			Gate maintenance			
		Number of Pond =			Canal Cleaning		✓	
8	Number of house hold in service area	60			Canal Rehabilitation		✓	
9	Actual irrigation area (ha)	9			Others			
10	Original or planned irrigation area (ha)	2.0			a-7) How often are the meeting held in a year?		1	
11	Original constructed year	Year's 1990s Exact year 1990 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		16	Opinion or request by interviewee	The WG or WUAs is under establishment. (Expected establishment year)		
		River Water	✓				Not required to establish (Reason)	
		Under Ground Water					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	✓					
	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		✓	●Evaluation of Irrigation scheme			
		Broken	✓		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration	✓		●	●		
		Cannot operate the gate			Size of area (10 pts, more than 100ha)		Total Points	60
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)	✓		Evaluation of degree on immediate treatment			
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			* Evaluation criteria			
		others			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Problems on Canal		✓	B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Broken	✓		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring).			
		Not functional by deterioration	✓		●Location of Irrigation Scheme			
		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 operation.					
	High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)							
	Others							
	Problems on the other facilities							

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

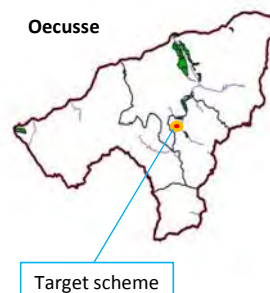

District :

Oecusse

Irrigation scheme :

BITOPA

7-a-11S

1	No.	11	14		Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	BITOPA				A few in 10 years		
4	Name of District	Oecusse				Not functional of irrigation structure	✓	
	Name of Sub-district	Oesilo				Climate change (decrease of river flow)		
5	Name of Suco	USITESAE				Others		
	Name of Aldeia	BUKI						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Others					Others	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 646498			Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
		Y= 8966362			Others			
	Grid reference in Irr. scheme except for above facility	X= 646424						
		Y= 8966166						
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	WUAs	✓	
		Pond/Lake			a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		3	
		Height(m)=			a-3) Name of representative of WG or WUAs		- Jose Quelo	
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No	✓		
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=			by Rice	US\$/ha as water fee		
		Height(m)=				kg/HH as member ship fee		
		Number of span =			a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/ha as water fee		
		Width/1span (m)=			Yes			
		Number of gates=			No	✓		
	/ If Canal→	Length of main	700		/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
		Width(m) for typical	0.80			Decrease	%	
		Height(m)=	1.00		a-6) What is	for years		
	/ If Pond or lake→	Diameter of Pond(m) =			Gate operation	for years		
		Depth(m)=			Gate maintenance			
		Number of Pond =			Canal Cleaning		✓	
8	Number of house hold in service area	62			Canal Rehabilitation		✓	
9	Actual irrigation area (ha)	14			Others			
10	Original or planned irrigation area (ha)	86.0			a-7) How often are the meeting held in a year?		3	
11	Original constructed year	1980s			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)		
	Exact year	1982				The WG or WUAs is under establishment. (Expected establishment year)		
	Rehabilitated year	2010				Not required to establish (Reason)		
12	Which type of the water source ?	Spring		16	Opinion or request by interviewee	Already expired (Reason)		
		River Water	✓				Others	
		Under Ground Water						
	If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)						
		Weir (Wooden)						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
	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		● Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	30	
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal			Evaluation of degree on immediate treatment			
		Broken	✓		* Evaluation criteria			
		Not functional by deterioration	✓		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Obstruction of sand/stone (sedimentation)			● Location of Irrigation Scheme			
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		Others						
		Problems on Pond/Lake						
		Broken			Target scheme			
	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							

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

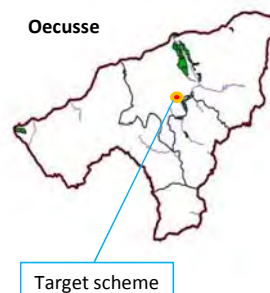

District :

Oecusse

Irrigation scheme :

SOMNASE

7-a-12S

1	No.	12	14			Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	18/12/2013				(Cause or Reason)	A few in 5 years	✓
3	Name of Irrigation scheme	SOMNASE					A few in 10 years	
4	Name of District	Oecusse					Not functional of irrigation structure	✓
	Name of Sub-district	Pante Macassar					Climate change (decrease of river flow)	
5	Name of Suco	CUNHA					Others	
	Name of Aldeia	SOMNASE						
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓
		Intake with gates				(Contents of damage)	A few in 5 years	✓
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 646024 Y= 8970599					Others
	Grid reference in Irr. scheme except for above facility	X= 646178 Y= 8970094				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		
7	What kind of structure?	Weir				Others		
		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	1.00					
		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	180						
9	Actual irrigation area (ha)	62						
10	Original or planned irrigation area (ha)	15.0						
11	Original constructed year	Year's	Before 1970					
		Exact year	1960					
		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		✓	●Evaluation of Irrigation scheme			
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)			Size of area (10 pts, more than 100ha)		Total Points	40
		Obstruction of sand/stone (sedimentation)		✓	Evaluation of degree on immediate treatment			
		High maintenance cost of structure (Annual Cost US\$)			* Evaluation criteria			
		(Contents of maintenance with high cost)			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)			
		others			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)			
		Problems on Canal			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)			
		Broken			●Location of Irrigation Scheme			
		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							
Remarks : describe supplemental and/or new information, if any								

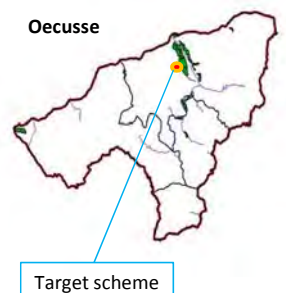

District :

Oecusse

Irrigation scheme :

TONO LEFT SIDE

7-a-13S

1	No.	13	14	Shortage of Irrigation Water (Frequency)		Every year	✓	
2	Date of Survey	13/12/2013		(Cause or Reason)		A few in 5 years	✓	
3	Name of Irrigation scheme	TONO LEFT SIDE				A few in 10 years		
4	Name of District	Oecusse				Not functional of irrigation structure		
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)	✓	
5	Name of Suco	LALISUK				Others		
	Name of Aldeia	ISAPIBELA						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)		Every year	✓
		Intake with gates					A few in 5 years	
		Pond/Lake/Spring					A few in 10 years	
		Weir					Wash out the land	✓
		Others					Damage to irrigation structure	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 648065 Y= 8975095					Others
	Grid reference in Irr. scheme except for above facility	X= 646196 Y= 8976500				Shortage of the workers (when plow, transplant, harvest ect) (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		WUAs		
		Others		a-1) What kind of the WG or WUAs ?		Traditional WG	✓	
	/ If Weir→	Length(m)=		a-2) How many number of WG or WUAs in the irrigation scheme ?		Others		
		Height(m)=		a-3) Name of representative of WG or WUAs			5	
		Width/1span (m)=		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	Same as contact person	
		Number of span =				No	✓	
		Number of gates=		/ if respondent select above "✓" Yes", which way do farmers pay the above fee?		by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=				by Rice	US\$/ha as water fee	
		Height(m)=		a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		kg/HH as member ship fee	kg/ha as water fee	
		Number of span =				Yes		
		Width/1span (m)=		/ if respondent select above "✓" Yes", How change of fee?		No	✓	
		Number of gates=				Increase	%	
	/ If Canal→	Length of main	80			Decrease	%	
		Width(m) for typical	1.50	a-6) What is		for years		
		Height(m)=	1.00			for years		
	/ If Pond or lake→	Diameter of Pond(m) =		Gate operation			✓	
		Depth(m)=		Gate maintenance				
		Number of Pond =		Canal Cleaning			✓	
8	Number of house hold in service area	75		Canal Rehabilitation			✓	
9	Actual irrigation area (ha)	94		Others				
10	Original or planned irrigation area (ha)	2,060.0		a-7) How often are the meeting held in a year?			4	
11	Original constructed year	Year's	Before 1970	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)		
		Exact year	1960			The WG or WUAs is under establishment. (Expected establishment year)		
		Rehabilitated year	2007			Not required to establish (Reason)		
12	Which type of the water source ?	Spring				Already expired (Reason)		
		River Water	✓			Others		
		Under Ground Water						
	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	✓					
	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		●Evaluation of Irrigation scheme				
		Broken	✓	Shortage of water / Obstruction of water pass(40pts)		Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		Not functional by deterioration	✓					
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)	✓	Size of area (10 pts, more than 100ha)		Total Points	30	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)						
		others						
		Problems on Canal				Evaluation of degree on immediate treatment		
		Broken	✓			* Evaluation criteria		
		Not functional by deterioration				A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)		
		Cannot operate the gate				B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)		
		Cannot flow the water for some reasons (Details)				C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)		
		Obstruction of sand/stone (sedimentation)				●Location of Irrigation Scheme		
		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							
	Remarks : describe supplemental and/or new information, if any							

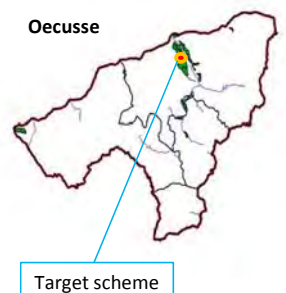

District :

Oecusse

Irrigation scheme :

SOBEDAM

7-a-14S

1	No.	14	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	17/12/2013			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	SOBEDAM				A few in 10 years			
4	Name of District	Oecusse				Not functional of irrigation structure			
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)			
5	Name of Suco	CUNHA				Others			
	Name of Aldeia	MONPAI							
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates					A few in 5 years	✓	
		Pond/Lake/Spring	✓				A few in 10 years		
		Weir					(Contents of damage)	Wash out the land	✓
		Others						Damage to irrigation structure	✓
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 647712 Y= 8977078					Others	
	Grid reference in Irr. scheme except for above facility	X= 647534 Y= 8977396				Shortage of the workers (when plow, transplant, harvest ect) (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	WUAs			
		Others			a-1) What kind of the WG or WUAs ?	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		- Domingos da Cruz		
		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)=				by Rice	US\$/ha as water fee		
		Number of span =			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/1span (m)=				No	✓		
		Number of gates=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%		
	/ If Canal→	Length of main	100			Decrease	%		
		Width(m) for typical	1.00		a-6) What is	for years			
		Height(m)=	1.00			for years			
	/ If Pond or lake→	Diameter of Pond(m) =	70.0		a-7) How often are the meeting held in a year?		1		
		Depth(m)=	1.00						
		Number of Pond =	1						
8	Number of house hold in service area		36						
9	Actual irrigation area (ha)		8						
10	Original or planned irrigation area (ha)		15.0						
11	Original constructed year	Year's	Before 1970						
		Exact year	1960						
		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 establishment year)		
		Under Ground Water					Not required to establish (Reason)		
	If respondent select above "✓" river water", show the type of irrigation facility	Others				Already expired (Reason)			
		Weir (concrete)				Others			
		Weir (Wooden)							
		Free intake							
		Intake with Gates							
		Pond/Lake	✓						
	If respondent select above "✓" Canal", show the type of canal	Canal			16	Opinion or request by interviewee	- Farmers do second cropping but it depends on the weather condition.		
		Others							
		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		✓	● Evaluation of Irrigation scheme				
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate		✓	Size of area (10 pts, more than 100ha)		Total Points	30	
		Cannot keep the water level for some reasons (Details)			Evaluation of degree on immediate treatment				
		Obstruction of sand/stone (sedimentation)		✓	* Evaluation criteria				
		High maintenance cost of structure (Annual Cost US\$)		✓	A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Others (Contents of maintenance with high cost)			B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		others			C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Problems on Canal		✓	● Location of Irrigation Scheme				
		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\$)								
	Others (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\$)								
	Others (Contents of maintenance with high cost)								
	Others								
	Problems on the other facilities								
Remarks : describe supplemental and/or new information, if any									

District :

Oecusse

Irrigation scheme :

Oe-nitas

7-a-15S

1	No.	15	14	Shortage of Irrigation Water (Frequency)		Every year	✓	
2	Date of Survey	17/12/2013		(Cause or Reason)		A few in 5 years	✓	
3	Name of Irrigation scheme	Oe-nitas				A few in 10 years		
4	Name of District	Oecusse				Not functional of irrigation structure		
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)		
5	Name of Suco	LASILU				Others		
	Name of Aldeia	USIPIBELA						
6	Observing location of the Grid	Free Intake		Flood Damage to irrigation scheme (Frequency)		Every year	✓	
		Intake with gates		(Contents of damage)		A few in 5 years	✓	
		Pond/Lake/Spring	✓			A few in 10 years		
		Weir				Wash out the land		
		Others				Damage to irrigation structure		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 645383 Y= 8980177				Others	
	Grid reference in Irr. scheme except for above facility	X= 645219 Y= 8980286		Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
7	What kind of structure?	Weir		Is there any major problems in the scheme ?				
		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	700					
		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	57		Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓	
9	Actual irrigation area (ha)	54				No		
10	Original or planned irrigation area (ha)	26.0		a) In case of YES				
11	Original constructed year	Year's	1990s	a-1) What kind of the WG or WUAs ?		WUAs		
		Exact year	1994			Traditional WG	✓	
		Rehabilitated year	2003			Others		
12	Which type of the water source ?	Spring	✓	a-2) How many number of WG or WUAs in the irrigation scheme ?			2	
		River Water		a-3) Name of representative of WG or WUAs			- Gaspar Sabu	
		Under Ground Water		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes		
		Others				No	✓	
		If respondent select above "✓ river water", show the type of irrigation facility	Weir (concrete)		/ if respondent select above "✓ Yes", which way do farmers pay the above fee?		by Cash	US\$/HH as member ship fee
			Weir (Wooden)				by Rice	US\$/ha as water fee
	Free intake		✓				kg/HH as member ship fee	
	If respondent select above "✓ Canal", show the type of canal	Intake with 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		
		Pond/Lake				No	✓	
		Canal	✓			Increase	%	
		Others		/ if respondent select above "✓ Yes", How change of fee?		Decrease	%	
		Concrete		a-6) What is				
		Wet Masonry	✓	Gate operation				
		Earth/Soil	✓	Gate maintenance				
		Others		Canal Cleaning			✓	
				Canal Rehabilitation				
				Others				
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		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)		
		Broken				The WG or WUAs is under establishment.		
		Not functional by deterioration				(Expected establishment year)		
		Cannot operate the gate				Not required to establish (Reason)		
		Cannot keep the water level for some reasons (Details)				Already expired (Reason)		
		Obstruction of sand/stone (sedimentation)		✓		Others		
		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							
Remarks : describe supplemental and/or new information, if any				<p>16 Opinion or request by interviewee</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p> <p>101</p> <p>102</p> <p>103</p> <p>104</p> <p>105</p> <p>106</p> <p>107</p> <p>108</p> <p>109</p> <p>110</p> <p>111</p> <p>112</p> <p>113</p> <p>114</p> <p>115</p> <p>116</p> <p>117</p> <p>118</p> <p>119</p> <p>120</p> <p>121</p> <p>122</p> <p>123</p> <p>124</p> <p>125</p> <p>126</p> <p>127</p> <p>128</p> <p>129</p> <p>130</p> <p>131</p> <p>132</p> <p>133</p> <p>134</p> <p>135</p> <p>136</p> <p>137</p> <p>138</p> <p>139</p> <p>140</p> <p>141</p> <p>142</p> <p>143</p> <p>144</p> <p>145</p> <p>146</p> <p>147</p> <p>148</p> <p>149</p> <p>150</p> <p>151</p> <p>152</p> <p>153</p> <p>154</p> <p>155</p> <p>156</p> <p>157</p> <p>158</p> <p>159</p> <p>160</p> <p>161</p> <p>162</p> <p>163</p> <p>164</p> <p>165</p> <p>166</p> <p>167</p> <p>168</p> <p>169</p> <p>170</p> <p>171</p> <p>172</p> <p>173</p> <p>174</p> <p>175</p> <p>176</p> <p>177</p> <p>178</p> <p>179</p> <p>180</p> <p>181</p> <p>182</p> <p>183</p> <p>184</p> <p>185</p> <p>186</p> <p>187</p> <p>188</p> <p>189</p> <p>190</p> <p>191</p> <p>192</p> <p>193</p> <p>194</p> <p>195</p> <p>196</p> <p>197</p> <p>198</p> <p>199</p> <p>200</p> <p>201</p> <p>202</p> <p>203</p> <p>204</p> <p>205</p> <p>206</p> <p>207</p> <p>208</p> <p>209</p> <p>210</p> <p>211</p> <p>212</p> <p>213</p> <p>214</p> <p>215</p> <p>216</p> <p>217</p> <p>218</p> <p>219</p> <p>220</p> <p>221</p> <p>222</p> <p>223</p> <p>224</p> <p>225</p> <p>226</p> <p>227</p> <p>228</p> <p>229</p> <p>230</p> <p>231</p> <p>232</p> <p>233</p> <p>234</p> <p>235</p> <p>236</p> <p>237</p> <p>238</p> <p>239</p> <p>240</p> <p>241</p> <p>242</p> <p>243</p> <p>244</p> <p>245</p> <p>246</p> <p>247</p> <p>248</p> <p>249</p> <p>250</p> <p>251</p> <p>252</p> <p>253</p> <p>254</p> <p>255</p> <p>256</p> <p>257</p> <p>258</p> <p>259</p> <p>260</p> <p>261</p> <p>262</p> <p>263</p> <p>264</p> <p>265</p> <p>266</p> <p>267</p> <p>268</p> <p>269</p> <p>270</p> <p>271</p> <p>272</p> <p>273</p> <p>274</p> <p>275</p> <p>276</p> <p>277</p> <p>278</p> <p>279</p> <p>280</p> <p>281</p> <p>282</p> <p>283</p> <p>284</p> <p>285</p> <p>286</p> 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<p>742</p> <p>743</p> <p>744</p> <p>745</p> <p>746</p> <p>747</p> <p>748</p> <p>749</p> <p>750</p> <p>751</p> <p>752</p> <p>753</p> <p>754</p> <p>755</p> <p>756</p> <p>757</p> <p>758</p> <p>759</p> <p>760</p> <p>761</p> <p>762</p> <p>763</p> <p>764</p> <p>765</p> <p>766</p> <p>767</p> <p>768</p> <p>769</p> <p>770</p> <p>771</p> <p>772</p> <p>773</p> <p>774</p> <p>775</p> <p>776</p> <p>777</p> <p>778</p> <p>779</p> <p>780</p> <p>781</p> <p>782</p> <p>783</p> <p>784</p> <p>785</p> <p>786</p> <p>787</p> <p>788</p> <p>789</p> <p>790</p> <p>791</p> <p>792</p> <p>793</p> <p>794</p> <p>795</p> <p>796</p> <p>797</p> <p>798</p> <p>799</p> <p>800</p> <p>801</p> <p>802</p> <p>803</p> <p>804</p> <p>805</p> <p>806</p> <p>807</p> <p>808</p> <p>809</p> <p>810</p> <p>811</p> <p>812</p> <p>813</p> <p>814</p> <p>815</p> <p>816</p> <p>817</p> <p>818</p> <p>819</p> <p>820</p> <p>821</p> <p>822</p> <p>823</p> <p>824</p> <p>825</p> <p>826</p> <p>827</p> <p>828</p> <p>829</p> <p>830</p> <p>831</p> <p>832</p> <p>833</p> <p>834</p> <p>835</p> <p>836</p> <p>837</p> <p>838</p> <p>839</p> <p>840</p> <p>841</p> <p>842</p> <p>843</p> <p>844</p> <p>845</p>				

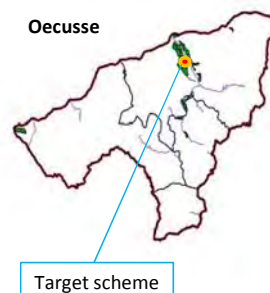

District :

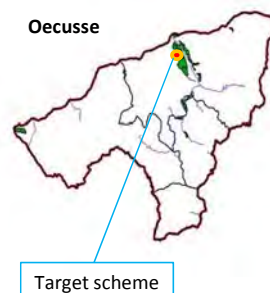

Oecusse

Irrigation scheme :

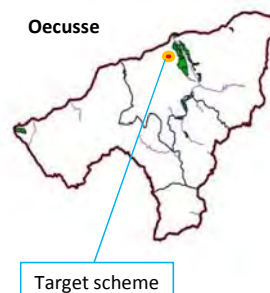
MASIANA

7-a-16S

1	No.	16	14		
2	Date of Survey	18/12/2013			
3	Name of Irrigation scheme	MASIANA			
4	Name of District	Oecusse			
	Name of Sub-district	Pante Macassar			
5	Name of Suco	LASILU			
	Name of Aldeia	BANOÇO			
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring Weir Others		Is there any major problems in the scheme ?	
	Grid reference at Intake/Pond/Lake/Spring/pump	X= 647672 Y= 8977119			
	Grid reference in Irr. scheme except for above facility	X= 647900 Y= 8976956			
7	What kind of structure?	Weir Intake Canal Pond/Lake Others		15	
	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		Is there any Water Group (WG) or Water User Associations (WUAs) ?	
	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	/ If Canal →	Length of main 500 Width(m) for typical 2.00 Height(m)= 2.00		a) In case of YES	
	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-1) What kind of the WG or WUAs ?	
8	Number of house hold in service area	42		WUAs <input checked="" type="checkbox"/> Traditional WG <input type="checkbox"/> Others <input type="checkbox"/>	
9	Actual irrigation area (ha)	6		a-2) How many number of WG or WUAs in the irrigation scheme ?	
10	Original or planned irrigation area (ha)	40.0		a-3) Name of representative of WG or WUAs	
11	Original constructed year	Year's 1970s Exact year 1970 Rehabilitated year 2002		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake <input checked="" type="checkbox"/> Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		/ if respondent select above "Yes", which way do farmers pay the above fee?	
	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry <input checked="" type="checkbox"/> Earth/Soil <input checked="" type="checkbox"/> Others		by Cash US\$/HH as member ship fee US\$/ha as water fee	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake Broken <input checked="" type="checkbox"/> Not functional by deterioration <input checked="" type="checkbox"/> Cannot operate the gate Cannot keep the water level for some reasons (Details) <input checked="" type="checkbox"/> - The enter is blocked Obstruction of sand/stone (sedimentation) High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others		/ if respondent select above "Yes", is there any change of amount of fee or rice volume for collecting fee ?	
	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		Increase % for years Decrease % for years	
	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		a-5) if respondent select above "Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	
	Problems on the other facilities			/ if respondent select above "Yes", How change of fee?	
Remarks : describe supplemental and/or new information, if any				a-6) What is	
				Gate operation Gate maintenance Canal Cleaning <input checked="" type="checkbox"/> 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	
				● 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	
				* 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	
					
					

1	No.	18	14	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
2	Date of Survey	16/12/2013	Is there any major problems in the scheme ? 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, transplant, harvest ect) (Reason) Others	
3	Name of Irrigation scheme	Oemat		
4	Name of District	Oecusse		
5	Name of Sub-district	Pante Macassar		
6	Name of Suco	LALISULI		
6	Name of Aldeia	USAPIBELA		
6	Observing location of the Grid	Free Intake Intake with gates Pond/Lake/Spring <input checked="" type="checkbox"/> Weir Others	15 Is there any Water Group (WG) or Water User Associations (WUAs) ? Yes <input checked="" type="checkbox"/> No a) In case of YES a-1) What kind of the WG or WUAs ? WUAs Traditional WG <input checked="" type="checkbox"/> 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 person a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs? Yes No <input checked="" type="checkbox"/> / 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 <input checked="" type="checkbox"/> Increase % for years Decrease % for years a-6) What is Gate operation Gate maintenance Canal Cleaning <input checked="" type="checkbox"/> Canal Rehabilitation Others a-7) How often are the meeting held in a year? 1	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 645475 Y= 8979027		
6	Grid reference in Irr. scheme except for above facility	X= 645339 Y= 8979266		
7	What kind of structure?	Weir		
7	Intake			
7	Canal	<input checked="" type="checkbox"/>		
7	Pond/Lake	<input checked="" type="checkbox"/>		
7	Others			
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=		
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		
7	/ If Canal →	Length of main 500 Width(m) for typical 1.00 Height(m)= 0.80		
7	/ 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)	45		
10	Original or planned irrigation area (ha)	55.0		
11	Original constructed year	Year's 1980s Exact year 1980 Rehabilitated year		
12	Which type of the water source ?	Spring <input checked="" type="checkbox"/> River Water Under Ground Water Others		
12	If respondent select above "River water", show the type of irrigation facility	Weir (concrete) Weir (Wooden) Free intake Intake with Gates Pond/Lake Canal <input checked="" type="checkbox"/> Others		
12	If respondent select above "Canal", show the type of canal	Concrete Wet Masonry Earth/Soil <input checked="" type="checkbox"/> Others		
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> Not functional by deterioration Cannot operate the gate Cannot keep the water level for some reasons (Details) <input checked="" type="checkbox"/> Obstruction of sand/stone (sedimentation) <input checked="" type="checkbox"/> High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others Problems on Canal <input checked="" type="checkbox"/> Broken <input checked="" type="checkbox"/> 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	16 Opinion or request by interviewee	
13 •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 * 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  Target scheme 				
Remarks : describe supplemental and/or new information, if any				

1	No.	19	14			Shortage of Irrigation Water (Frequency)		Every year	
2	Date of Survey	15/12/2013				(Cause or Reason)		A few in 5 years	
3	Name of Irrigation scheme	KAKATUA						A few in 10 years	
4	Name of District	Oecusse						Not functional of irrigation structure	
5	Name of Sub-district	Pante Macassar						Climate change (decrease of river flow)	
6	Name of Suco	LIFAU						Others	
6	Name of Aldeia	OE-MOLO							
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?		Flood Damage to irrigation scheme (Frequency)		Every year	
		Intake with gates						A few in 5 years	
		Pond/Lake/Spring						A few in 10 years	
		Weir						A few in 10 years	
		Others						Wash out the land	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 645472 Y= 8979030				(Contents of damage)		Damage to irrigation structure
	Grid reference in Irr. scheme except for above facility	X= 644858 Y= 8979186						Others	
7	What kind of structure?	Weir						Shortage of the workers (when plow, transplant, harvest ect) (Reason)	
		Intake	✓					Others	
		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	1.00						
		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	80							
9	Actual irrigation area (ha)	115							
10	Original or planned irrigation area (ha)	100.0							
11	Original constructed year	Year's	1970s						
		Exact year	1970						
		Rehabilitated year	1998						
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	✓						
	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		✓	●Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate		✓					
		Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)				
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost)			Total Points				
		others			20				
		Problems on Canal			Evaluation of degree on immediate treatment				
		Broken			* Evaluation criteria				
		Not functional by deterioration			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot flow the water for some reasons (Details)			C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Obstruction of sand/stone (sedimentation)			●Location of Irrigation Scheme				
		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								



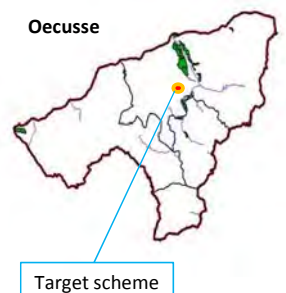

Remarks : describe supplemental and/or new information, if any

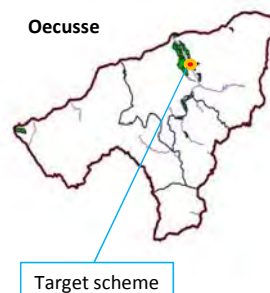

District : **Oecusse**

Irrigation scheme :

NIANAPU

7-a-20S

1	No.	20	14			Shortage of Irrigation Water (Frequency)	Every year	✓	
2	Date of Survey	18/12/2013				(Cause or Reason)	A few in 5 years	✓	
3	Name of Irrigation scheme	NIANAPU					A few in 10 years		
4	Name of District	Oecusse					Not functional of irrigation structure		
	Name of Sub-district	Oesilo					Climate change (decrease of river flow)	✓	
5	Name of Suco	Bobometo					Others		
	Name of Aldeia	Nianapu							
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates				(Contents of damage)	A few in 5 years	✓	
		Pond/Lake/Spring					A few in 10 years		
		Weir					Wash out the land	✓	
		Others					Damage to irrigation structure	✓	
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 645993 Y= 8971609					Others	
	Grid reference in Irr. scheme except for above facility	X= 646331 Y= 8972082				Shortage of the workers (when plow, transplant, harvest ect) (Reason)		✓	
7	What kind of structure?	Weir				Others			
		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	800						
		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	78							
9	Actual irrigation area (ha)	48							
10	Original or planned irrigation area (ha)	2.0							
11	Original constructed year	Year's	Before 1970						
		Exact year	1965					Antonio Lafu	
		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							
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake		●Evaluation of Irrigation scheme					
			Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
			Not functional by deterioration						
			Cannot operate the gate		Size of area (10 pts, more than 100ha)		Total Points	10	
			Cannot keep the water level for some reasons (Details)		Evaluation of degree on immediate treatment				
			Obstruction of sand/stone (sedimentation)		* Evaluation criteria				
			High maintenance cost of structure (Annual Cost US\$)		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
			(Contents of maintenance with high cost)		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
			others		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
			Problems on Canal		●Location of Irrigation Scheme				
			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							
Remarks : describe supplemental and/or new information, if any									

1	No.	21	14					
2	Date of Survey	17/12/2013		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			
3	Name of Irrigation scheme	MAILU						
4	Name of District	Oecusse						
4	Name of Sub-district	Pante Macassar						
5	Name of Suco	CUNHA						
5	Name of Aldeia	NOAFAFO						
6	Observing location of the Grid	Free Intake	✓					
		Intake with gates						
		Pond/Lake/Spring						
		Weir						
	Grid reference at Intake/Pond/Lake/Spring/pump	X=	648871.54					
		Y=	8976149.77					
		Grid reference in Irr. scheme except for above facility	X=			648772		
			Y=			8976350		
7	What kind of structure?	Weir						
8	Number of house hold in service area	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)=	0.60						
/ If Pond or lake→	Diameter of Pond(m) =							
	Depth(m)=							
	Number of Pond =							
9	Actual irrigation area (ha)	7						
10	Original or planned irrigation area (ha)	28.0						
11	Original constructed year	Year's	Before 1970					
		Exact year	1960					
		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						
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 ?		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		✓	●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 * 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  Target scheme 			
		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	- No Budget for					
		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								
Remarks : describe supplemental and/or new information, if any								

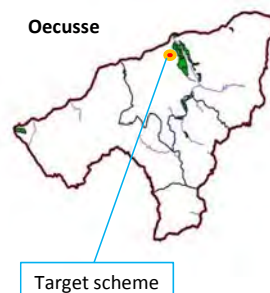

District :

Oecusse

Irrigation scheme :

KAUNFUI

7-a-22S

1	No.	22	14					
2	Date of Survey	13/12/2013						
3	Name of Irrigation scheme	KAUNFUI						
4	Name of District	Oecusse						
	Name of Sub-district	Pante Macassar						
5	Name of Suco	LALISUK						
	Name of Aldeia	USAPIBELA						
6	Observing location of the Grid	Free Intake	✓	Is there any major problems in the scheme ?	Shortage of Irrigation Water (Frequency)	Every year		
		Intake with gates				(Cause or Reason)	A few in 5 years	
		Pond/Lake/Spring	✓			Not functional of irrigation structure	A few in 10 years	
		Weir				Climate change (decrease of river flow)	A few in 10 years	
		Others				Others		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 645294 Y= 8978650				Flood Damage to irrigation scheme (Frequency)	Every year
	Grid reference in Irr. scheme except for above facility	X= 645273 Y= 8978716		(Contents of damage)	A few in 5 years	✓		
					A few in 10 years			
					Wash out the land			
					Damage to irrigation structure			
					Others			
					Shortage of the workers (when plow, transplant, harvest ect) (Reason)			
					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	WUAs	✓	
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	Traditional WG		
		Others				Others		
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?		2	
		Height(m)=			a-3) Name of representative of WG or WUAs		Same as contact person	
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of span =			No	✓		
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee	
	/ If Intake→	Length(m)=			by Rice	US\$/ha as water fee		
		Height(m)=			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		
		Number of span =			No	✓		
		Width/1span (m)=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%	
		Number of gates=				Decrease	%	
	/ If Canal→	Length of main	700		a-6) What is	Gate operation	✓	
		Width(m) for typical	1.00			Gate maintenance		
		Height(m)=	0.80			Canal Cleaning	✓	
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Rehabilitation	✓	
		Depth(m)=				Others		
		Number of Pond =			a-7) How often are the meeting held in a year?		4	
8	Number of house hold in service area	75			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)		
9	Actual irrigation area (ha)	21				The WG or WUAs is under establishment.		
10	Original or planned irrigation area (ha)	70.0				(Expected establishment year)		
11	Original constructed year	Year's	1970s			Not required to establish (Reason)		
		Exact year	1978			Already expired (Reason)		
		Rehabilitated year	2002			Others		
12	Which type of the water source ?	Spring	✓	16	Opinion or request by interviewee			
		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		✓					
	If respondent select above "✓" Canal", show the type of canal	Canal	✓					
		Others						
		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		●Evaluation of Irrigation scheme				
		Broken		Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration						
		Cannot operate the gate						
		Cannot keep the water level for some reasons (Details)						
		Obstruction of sand/stone (sedimentation)			Size of area (10 pts, more than 100ha)	Total Points	30	
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		others						
		Problems on Canal		Evaluation of degree on immediate treatment				
		Broken		* Evaluation criteria				
		Not functional by deterioration		A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		Cannot operate the gate		B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		Cannot flow the water for some reasons (Details)		C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Obstruction of sand/stone (sedimentation)		●Location of Irrigation Scheme				
		High maintenance cost of structure (Annual Cost US\$)						
		(Contents of maintenance with high cost)						
		Others						
		Problems on Pond/Lake						
		Broken	✓	Target scheme				
	Not functional by deterioration	✓						
	Cannot operate the outlet gate	✓	- No operation.					
	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							
Remarks : describe supplemental and/or new information, if any								

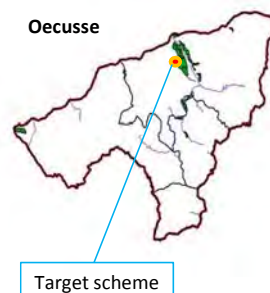

District :

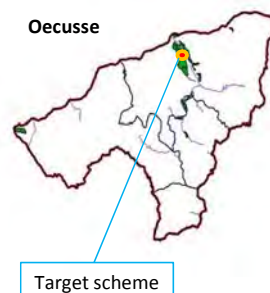

Oecusse

Irrigation scheme :

BAHNONO

7-a-23S

1	No.	23	14		Shortage of Irrigation Water (Frequency)	Every year	✓		
2	Date of Survey	16/12/2013			(Cause or Reason)	A few in 5 years	✓		
3	Name of Irrigation scheme	BAHNONO				A few in 10 years			
4	Name of District	Oecusse				Not functional of irrigation structure			
	Name of Sub-district	Pante Macassar				Climate change (decrease of river flow)			
5	Name of Suco	LALISUK				Others			
	Name of Aldeia	USAPIBELA							
6	Observing location of the Grid	Free Intake			Is there any major problems in the scheme ?	Flood Damage to irrigation scheme (Frequency)	Every year	✓	
		Intake with gates					A few in 5 years	✓	
		Pond/Lake/Spring	✓				A few in 10 years		
		Weir					(Contents of damage)	Wash out the land	
		Others					Damage to irrigation structure		
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 646266 Y= 8977171				Others		
	Grid reference in Irr. scheme except for above facility	X= 645974 Y= 8977565			Shortage of the workers (when plow, transplant, harvest ect) (Reason)				
					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	WUAs			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?	Traditional WG	✓		
		Others				Others			
	/ If Weir→	Length(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1	
		Height(m)=			a-3) Name of representative of WG or WUAs			-Gerald Sabu	
		Width/1span (m)=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes			
		Number of span =				No	✓		
		Number of gates=			/ if respondent select above "✓" Yes", which way do farmers pay the above fee?	by Cash	US\$/HH as member ship fee		
	/ If Intake→	Length(m)=				by Rice	US\$/ha as water fee		
		Height(m)=			a-5) if respondent select above "✓ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	kg/HH as member ship fee	kg/ha as water fee		
		Number of span =				for years			
		Width/1span (m)=			/ if respondent select above "✓" Yes", How change of fee?	Increase	%		
		Number of gates=				Decrease	%		
	/ If Canal→	Length of main	200		a-6) What is	for years			
		Width(m) for typical	1.00			Gate operation			
		Height(m)=	1.60			Gate maintenance			
	/ If Pond or lake→	Diameter of Pond(m) =				Canal Cleaning	✓		
		Depth(m)=				Canal Rehabilitation	✓		
		Number of Pond =				Others			
8	Number of house hold in service area	32			a-7) How often are the meeting held in a year?			3	
9	Actual irrigation area (ha)	218			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)			
10	Original or planned irrigation area (ha)	10.0				The WG or WUAs is under establishment. (Expected establishment year)			
11	Original constructed year	Year's	Before 1970			Not required to establish (Reason)			
		Exact year	1960			Already expired (Reason)			
	Rehabilitated year					Others			
12	Which type of the water source ?	Spring	✓		16	Opinion or request by interviewee			
		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							
	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		✓	● Evaluation of Irrigation scheme				
		Broken			Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration							
		Cannot operate the gate		✓	Size of area (10 pts, more than 100ha)		Total Points	30	
		Cannot keep the water level for some reasons (Details)			Evaluation of degree on immediate treatment				
		Obstruction of sand/stone (sedimentation)			* Evaluation criteria				
		High maintenance cost of structure (Annual Cost US\$)			A: 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)				
		(Contents of maintenance with high cost)			B: below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)				
		others		- No Budget for	C: below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)				
		Problems on Canal			● Location of Irrigation Scheme				
		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								
Remarks : describe supplemental and/or new information, if any									

1	No.	24	14						
2	Date of Survey	17/12/2013		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				
3	Name of Irrigation scheme	LETEFOHO							
4	Name of District	Oecusse							
4	Name of Sub-district	Pante Macassar							
5	Name of Suco	LALISULI							
5	Name of Aldeia	PADEAE							
6	Observing location of the Grid	Free Intake		15	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, transplant, harvest ect) (Reason) Others				
		Intake with gates							
		Pond/Lake/Spring	✓						
		Weir							
		Others							
		Grid reference at Intake/Pond/Lake/Spring/pump	X= 647875.56 Y= 8977976.69						
	Grid reference in Irr. scheme except for above facility	X= 647740 Y= 8978014							
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)= Height(m)= Width/1span (m)= Number of span = Number of gates=			Others			
		/ If Intake→	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=		a-2) How many number of WG or WUAs in the irrigation scheme ?			1	
		/ If Canal→	Length of main 500 Width(m) for typical 2.00 Height(m)= 1.00		a-3) Name of representative of WG or WUAs			Tomas Baba	
		/ If Pond or lake→	Diameter of Pond(m) = Depth(m)= Number of Pond =		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No		✓	
8	Number of house hold in service area	18			/ 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			
9	Actual irrigation area (ha)	3			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		✓	
10	Original or planned irrigation area (ha)	7.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % for years Decrease % for years			
11	Original constructed year	Year's Before 1970 Exact year 1960 Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning Canal Rehabilitation Others		✓ ✓	
12	Which type of the water source ?	Spring River Water Under Ground Water Others	✓		a-7) How often are the meeting held in a year?			1	
	If respondent select above "✓" river water", show the type of irrigation facility	Weir (concrete)		16	Opinion or request by interviewee	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.			
		Weir (Wooden)				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			
		Free intake							
		Intake with Gates							
		Pond/Lake							
		Canal	✓						
	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		✓	●Evaluation of Irrigation scheme				
		Broken		✓	Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)	
		Not functional by deterioration Cannot operate the gate Cannot keep the water level for some reasons (Details)							
		Obstruction of sand/stone (sedimentation)		✓	Size of area (10 pts, more than 100ha)		Total Points	20	
		High maintenance cost of structure (Annual Cost US\$) (Contents of maintenance with high cost) others			Evaluation of degree on immediate treatment				
		Problems on Canal			* 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).				
		Broken			●Location of Irrigation Scheme				
		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							

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

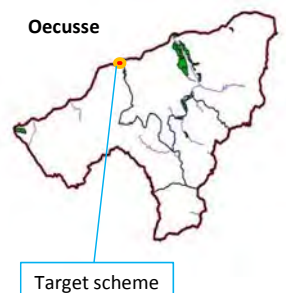

District :

Oecusse

Irrigation scheme :

SAMNAS

7-a-25S

1	No.	25	14		Shortage of Irrigation Water (Frequency)	Every year	✓
2	Date of Survey	18/12/2013			(Cause or Reason)	A few in 5 years A few in 10 years	✓
3	Name of Irrigation scheme	SAMNAS				Not functional of irrigation structure Climate change (decrease of river flow) Others	
4	Name of District	Oecusse					
5	Name of Sub-district	Nitibe					
6	Name of Suco	SUNUFE					
6	Name of Aldeia	KABANA					
6	Observing location of the Grid	Free Intake ✓ Intake with gates Pond/Lake/Spring Weir Others		14	Is there any major problems in the scheme ?	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	
6	Grid reference at Intake/Pond/Lake/Spring/pump	X= 635016 Y= 8975299				Shortage of the workers (when plow, transplant, harvest ect) (Reason) Others	
6	Grid reference in Irr. scheme except for above facility	X= 635068 Y= 8975950					
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes No	✓
7		Intake Canal ✓ Pond/Lake Others			a) In case of YES	WUAs Traditional WG Others	✓
7	/ If Weir →	Length(m)= Height(m)= Width/1span (m)= Number of span = Number of gates=			a-1) What kind of the WG or WUAs ?		
7	/ If Intake →	Length(m)= Height(m)= Number of span = Width/1span (m)= Number of gates=			a-2) How many number of WG or WUAs in the irrigation scheme ?		10
7	/ If Canal →	Length of main 600 Width(m) for typical 1.00 Height(m)= 1.00			a-3) Name of representative of WG or WUAs		Lauriano Suni Temen
7	/ If Pond or lake →	Diameter of Pond(m) = Depth(m)= Number of Pond =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes No	✓
8	Number of house hold in service area	100			/ 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	
9	Actual irrigation area (ha)	34			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	✓
10	Original or planned irrigation area (ha)	30.0			/ if respondent select above "✓" Yes", How change of fee?	Increase % Decrease % for years for years	
11	Original constructed year	Year's 1980s Exact year 1985 Rehabilitated year			a-6) What is	Gate operation Gate maintenance Canal Cleaning ✓ Canal Rehabilitation Others	
12	Which type of the water source ?	Spring River Water ✓ Under Ground Water Others			a-7) How often are the meeting held in a year?		4
12	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			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	
12	If respondent select above "✓" Canal", show the type of canal	Concrete Wet Masonry ✓ Earth/Soil 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							

Cropping pattern of Rice

Tables show cropping pattern of rice on each district which are replied in 2nd Inventory survey .
Bobonaro(Maliana)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation	■											
2. Nursery	■											
3. Transplanting	■	■										
4. Spraying against				■								
5. Weeding			■									
6. Harvesting					■	■						
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation					■	■						
2. Nursery						■	■					
3. Planting							■					
4. Spraying against									■	■		
5. Weeding								■				
6. Harvesting										■	■	
7. Others												

Oecusse

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation	■											
2. Nursery	■											
3. Transplanting		■										
4. Spraying against			■									
5. Weeding			■									
6. Harvesting					■	■						
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation						■						
2. Nursery						■						
3. Planting							■					
4. Spraying against								■				
5. Weeding								■				
6. Harvesting										■	■	
7. Others												

Covalima

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation	■	■										
2. Nursery		■										
3. Transplanting		■	■	■	■							
4. Spraying against			■	■								
5. Weeding			■	■	■							
6. Harvesting				■	■							
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation							■	■	■			
2. Nursery							■	■	■			
3. Planting								■	■	■		
4. Spraying against									■	■	■	
5. Weeding									■	■	■	
6. Harvesting											■	■
7. Others												

Viqueque

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												

Aileu(Aileu Villa/Seloi Kraik; 1,094m)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against insect												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	No Cultivation											

Baucau(Venilale/Badu-Hou; 129m)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												

Liquica(Maubara/Guguleur; 78m)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												

Manufahi(Same Villa/Betano; 2m)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												

Manatuto(Natarbora/Abat-oan; 42m)

Rainy season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Land preparation												
2. Nursery												
3. Transplanting												
4. Spraying against												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	No Cultivation											

Questionnaire for Inventory survey

Data sheet for Inventory survey

Date of Survey (date / month / yr) _____

Name of Surveyor (name) _____

(mobile phone no.) _____

Surveyor check and describe by own on item No. 1~8

BASIC INFORMATION OF IRRIGATION SCHEME (1/2)

- 1 Reference number on the "LIST A" (←Select the number from "LIST A")
- 2 Reference number on the "LIST B" (←Select the number from "LIST B")

Remarks :

"LIST A" and "LIST B" attached on Appendix of contract.
 Surveyor shall describe the reference number of the targeted irrigation scheme from "LIST A". And surveyor shall check the "LIST B" and select the reference number from "LIST B" which is the closest location to the above targeted irrigation scheme of "LIST A".

3 Name of Irrigation scheme (name) _____

- 4 Name of District and Sub-distr. (check the matching item)
- | | | | | | | |
|-------------------------------------|------------------------------------|------------------------------------|--|-----------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Bobonaro | <input type="checkbox"/> Liquiça | <input type="checkbox"/> Ermera | <input type="checkbox"/> Dili | <input type="checkbox"/> Aileu | <input type="checkbox"/> Cova Lima | <input type="checkbox"/> Ainaro |
| <input type="checkbox"/> Atabae | <input type="checkbox"/> Liquiça | <input type="checkbox"/> Hatólia | <input type="checkbox"/> Dom Aleixo | <input type="checkbox"/> Aileu | <input type="checkbox"/> Fatululic | <input type="checkbox"/> Hato-Udo |
| <input type="checkbox"/> Balibò | <input type="checkbox"/> Maubara | <input type="checkbox"/> Atsabe | <input type="checkbox"/> Vera Cruz | <input type="checkbox"/> Lequidoe | <input type="checkbox"/> Tilomar | <input type="checkbox"/> Ainaro |
| <input type="checkbox"/> Cailaco | <input type="checkbox"/> Bazartete | <input type="checkbox"/> Letefoho | <input type="checkbox"/> Nain Feto | <input type="checkbox"/> Remexio | <input type="checkbox"/> Fohorem | <input type="checkbox"/> Hatu-Builicc |
| <input type="checkbox"/> Maliana | | <input type="checkbox"/> Ermera | <input type="checkbox"/> Cristo Rei I | <input type="checkbox"/> Liquidoe | <input type="checkbox"/> Fatululic | <input type="checkbox"/> Maubisse |
| <input type="checkbox"/> Bobonaro | | <input type="checkbox"/> Railaco | <input type="checkbox"/> Cristo Rei II | | <input type="checkbox"/> Maucatar | |
| <input type="checkbox"/> Lolotoe | | | <input type="checkbox"/> Metinaro | | <input type="checkbox"/> Suai | |
| | | | | | <input type="checkbox"/> Zumalai | |
| <input type="checkbox"/> Manufahi | <input type="checkbox"/> Manatuto | <input type="checkbox"/> Baucau | <input type="checkbox"/> Viqueque | <input type="checkbox"/> Lautém | <input type="checkbox"/> Oecusse | |
| <input type="checkbox"/> Same | <input type="checkbox"/> Laclo | <input type="checkbox"/> Vemasse | <input type="checkbox"/> Lacluta | <input type="checkbox"/> Iliomar | <input type="checkbox"/> Nitibe | |
| <input type="checkbox"/> Alas | <input type="checkbox"/> Laclubar | <input type="checkbox"/> Venilale | <input type="checkbox"/> Viqueque | <input type="checkbox"/> Luro | <input type="checkbox"/> Passabe | |
| <input type="checkbox"/> Fatuberlio | <input type="checkbox"/> Soibada | <input type="checkbox"/> Baucau | <input type="checkbox"/> Ossu | <input type="checkbox"/> Lautém | <input type="checkbox"/> Oesilo | |
| <input type="checkbox"/> Turiscai | <input type="checkbox"/> Manatuto | <input type="checkbox"/> Quelicali | <input type="checkbox"/> Watlari | <input type="checkbox"/> Lospalos | <input type="checkbox"/> Pante Macassar | |
| | <input type="checkbox"/> Laleia | <input type="checkbox"/> Laga | <input type="checkbox"/> Uatucarbau | <input type="checkbox"/> Tutuala | | |
| | <input type="checkbox"/> Barique | <input type="checkbox"/> Baguia | | | | |

5 Name of Suco, Aldeia Name Suco _____ Name Aldeia _____

- 6 Observing location of the Grid (check the matching item)
- Surveyor observe the Grid at Water Source point as follows:
- Free Intake Intake with gates Pond/lake/spring Pump
- Weir Others :Describe location below
- [_____]

Grid reference at intake/Pond/lake/spring/pump
 X (UTM)= Y(UTM)=

Grid reference in Irr. scheme except for above facility
 X (UTM)= Y(UTM)=

Remarks : Show the location which are observed by GPS on the MAP by 1/50,000

- 7 What kind of structure? (Multiple answers are allowed)
- Weir Intake Canal Pump Pond/lake
- Others :Describe the detail
- [_____]

(↓ go on next page)

Please measure or interview the size of the structure and facility
If you can not measure the structure or facility, ask the rough measurement to District Director or Extension of scheme

/ If Weir→	Length(m)=	Height(m)=	Width/1span (m)=
	Number of span =		Number of gates=
/ If Intake→	Length(m)=	Height(m)=	Width/1span (m)=
	Number of span =		Number of gates=
/ If Canal→	Length of main canal(m)=		Height(m)=
	Width(m) for typical sec.=		
/ If Pump→	Diameter of pipe (mm)=		Volume of discharge (m ³ /min) =
	Number of pumps=		
/ If Pond or lake→	Diameter of Pond(m) =		Depth(m)=
	Number of Pond =		

8 Take picture of irrigation scheme as following view and use the provided format at next page

- a. General view of scheme (Landscape of paddy fields or upland)
- b. Irrigation facility 1 (structure of intake point)
- c. Irrigation facility 2 (canal)
- d. Location or situation of interview
- E. Others

PICTURE	<p>a. General view of scheme (Landscape of paddy fields or upland)</p> <p><i>Comment for photo, if any</i></p>	<p><i>paste the picture in here</i></p>
	<p>b. Irrigation facility (structure of intake point)</p> <p><i>Comment for photo, if any</i></p>	<p><i>paste the picture in here</i></p>
	<p>c. Irrigation facility (canal)</p> <p><i>Comment for photo, if any</i></p>	<p><i>paste the picture in here</i></p>
	<p>d. Location or situation of interview</p> <p><i>Comment for photo, if any</i></p>	<p><i>paste the picture in here</i></p>
	<p>E. Others</p> <p><i>Comment for photo, if any</i></p>	<p><i>paste the picture in here</i></p>

Contact person of public

Name	Position	mobile phone No.

BASIC INFORMATION OF IRRIGATION SCHEME

9 Number of house hold in service area
(Surveyor must obtain this figure) Please describe the exact figure → (nos.)

10 Actual irrigation area (ha)
(Surveyor must obtain this figure) Please describe the exact figure → (ha)

11 Original or planned irrigation area (ha)
(Surveyor must obtain this figure) Please describe the exact figure → (ha)

12 Original constructed year
 before 1960 1970s~ 1980s~ 1990s~ 2000s~ 2010s~
(✓ check the matching item)
 If respondent know the exact constructed year, please mention it. → (yr)
 If respondent know year of the large rehabilitation, please mention it. → (yr)

13 Which type of the water source ?
(✓ check the matching item) (If surveyor find the drawing map of irrigation canal system and structures , please obtain it)

spring river water under ground water (well)
 Others :Describe the detail
 []

If respondent select above "✓ river water" , show the type of irrigation facility
(Multiple answers are allowed) **(if surveyor obtain the new facility except for the facility at "No.7" , add the measurement or size to table of "No.7"**

Weir (concrete structure) Weir (Wooden or stone)
 Free Intake Intake with gates Pond/lake
 Canal Pump Others :Describe the detail at below
 []

If respondent select above "✓ Canal" , show the type of canal

Concrete Wet masonry Earth / Soil
 Others :Describe the detail
 []

Problem of Irr. facility and scheme (1/3)

14 What's kind of problem for the structure or facility, and reason of problem ?

/ If the problem is for Weir or Intake, select the answer below
(Multiple answers are allowed) broken Not functional by deterioration cannot operate the gate
 cannot keep the water level for some reason / Describe the detail at below;
 []
 obstruction of sand/stone (sedimentation)
 High maintenance cost of structure

/ if you select this item, describe the annual cost , US\$/yr

(↓ go on next page) and what's the detail of maintenance []
 2-509

Others / Describe the detail at below:

[]

/ If the problem is for Canal, select the answer below

(Multiple answers are allowed) broken Not functional by deterioration cannot operate the gate

cannot flow the water for the some reason / Describe the detail at below;

[]

obstruction of sand/stone (sedimentation)

High maintenance cost of structure

/ if you select above item, describe the annual cost,

US\$/yr

and what's the detail of maintenance

[]

Others / Describe the detail at below:

[]

/ If the problem is for Pump , select the answer below

(Multiple answers are allowed) broken Not functional by deterioration cannot get spareparts

High maintenance cost of structure

/ if you select above item, describe the annual cost,

US\$/yr

and what's the detail of maintenance

[]

Others / Describe the detail at below:

[]

/ If the problem is for Pond/Lake, select the answer below

(Multiple answers are allowed) broken Not functional by deterioration cannot operate the outlet gate

cannot keep the water in pond for some reason

/ Please describe the detail of reason at below:

[]

High maintenance cost of structure

/ if you select above item, describe the annual cost,

US\$/yr

and what's the detail of maintenance

[]

Others / Describe the detail at below:

[]

/ If the problem is for Others, answer the other cause and/or reason.

[]

Problem of Irrigation facility and scheme(3/3)

15 Is there any major problems in the scheme ? **(Multiple answers are allowed)**
 (check the matching item)

Shortage of the irrigation water
 / if respondent select above item, please interview when it occur
 every year a few in 5 yrs a few in 10 yrs
 and what's the cause or reason of shortage?
 Not functional irri. struc. climate change (decrease of river flow or rainfall)
 Others / interview the detail at below:
 [_____]
 Flood damage to irrigation scheme
 / if respondent select above item, please interview when it occur
 every year a few in 5 yrs a few in 10 yrs
 and what's the damage ?
 wash out the land damage to irrigation structure
 Others / Describe the detail at below:
 [_____]
 Shortage of the workers (when plow, transplant, harvest, etc)
 / if respondent select above item, interview the reason.
 [_____]
 Other any problem
 / if respondent select above item, interview the detail at below.
 [_____]

WG or WUAs (1/2)

16 Is there any Water Group (WG) or Water User Associations (WUAs) ?
 (check the matching item) Yes No

a) If respondent select above " Yes " , please answer as follows.

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 ? groups

if there is some WG or WUAs, interview about the biggest one as follows "a-2)~a-3)"

a-3) Name of representative of WG or WUAs [_____]
 if name is same as contact person of represenraive, describe " **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?
(Multiple answers are allowed)

<input type="checkbox"/> by cash		\$ /1 farm household as Membership fee
		\$ /ha as water fee
<input type="checkbox"/> by rice		kg /1 farm household as Membership fee
		kg /ha as water fee

(↓ go on next page)

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 (_____ % during _____ yrs)

decrease (_____ % during _____ yrs)

a-6) What is main activity of WG or WUA ?

gate operation gate maintenance

canal cleaning canal rehabilitation

pump operation pump maintenance

Others :Describe the detail

[]

a-7) How often are the meeting held in a year?

one two three four four

five six more : how many?

times/yr

b) If 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 reason prevent from establishment

→ why []

The WG or WUAs is under establishment

→ when it will be establishment [] yr

Not required to establish it

→ why []

already expired

→ why []

If there is other reason or additional info, interview the detail at below

[]

WG or WUAs (2/2)

17 How much is an average income per one farmer by all of crop production ?

Ave. US\$/yr

18 What kind of the agricultural productions does the irrigation scheme produce?

(check the matching item)

rice maize beans cassava potato/Sweet potato

(Multiple answers are allowed)

Other vegetable / Please interview the detail at below.

[]

CROPS(1/4)

a) If respondent select above " rice" , answer the questions below.

a-1) How many times does the farmers make the paddy field in a year? one twice

a-2) How large of cultivated paddy area in total of irrigation scheme? Dry season (_____ ha)

(Multiple answers are allowed)

Rain season (_____ ha)

(↓ go on next page)

a-3) How much is the yeild of the paddy after drying ?

(Multiple answers are allowed)

Dry season (_____ kg)

Rain season (_____ kg)

a-4) If "a-1)" is selected "one", please interview the reason of one time only (why not twice)

(Multiple answers are allowed)

- shortage of water shortage of labor
- No need of twice shortage water buffalo
- Other reason ↓

a-5) Is there any milling machines in the irrigation scheme area? Yes No

And If " Yes ", How much capacity is that machine and usage fee ?

Capacity	Usage fee
kg/hr	US\$/kg

And If " Yes ", How long does it take to get its place by car or motorcycle?

- less than 0.5hr 0.5hr~ 1hr~3hr 3hr~6hr 9hr~12hr

And If " No ", Where do farmers bring paddy to mill?

- Out of scheme (place : _____)

a-5) Do farmers buy the rice as the general trend of farmer? Yes No

And If " Yes ", How long does it take to get its market place ?

- less than 0.5hr 0.5hr~ 1hr~3hr 3hr~6hr 9hr~12hr

And If " Yes ", How much is the rice at the market? (check the proper unite)

		Unite
Ave.		<input type="checkbox"/> US\$/kg or <input type="checkbox"/> US\$/1 sack
1 sack =		kg

And If " Yes ", How much volume of the rice does one farmer buy in a year ?

		Unite
Ave.		<input type="checkbox"/> kg or <input type="checkbox"/> sack
1 sack =		kg

And If " Yes ", when do farmers usually buy the rice in the year as the general trend ?

(Multiple answers are allowed)

dry season (check the proper month ↓)

<input type="checkbox"/> May	<input type="checkbox"/> June	<input type="checkbox"/> July	<input type="checkbox"/> Aug.	<input type="checkbox"/> Sep.	<input type="checkbox"/> Oct
------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------	------------------------------

rain season (check the proper month ↓)

<input type="checkbox"/> Nov.	<input type="checkbox"/> Dec.	<input type="checkbox"/> Jan.	<input type="checkbox"/> Feb.	<input type="checkbox"/> Mar.	<input type="checkbox"/> Apr.
-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------	-------------------------------

a-6) Do farmers sell the rice as the general trend of farmer ? Yes No

And If " Yes ", How do farmers sell as the general trend of farmer ?

- (Multiple answers are allowed)
- Sell at market place by own Sell to market through trader
 - Sell at own house (farm gate)

CROPS(2/4)

And If " Yes ", how much do farmers sell in average ?

At market by own	To market through trader	At own house
<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
one sack = kg		

And If " Yes " and "at market place by own", How long does it take to access its place ?

- less than 0.5hr 0.5hr~ 1hr~3hr 3hr~6hr 9hr~12hr

b) If you select " maize or beans or other vegetables" for the question of "No.18 : What kind of the agricultural productions does the irrigation scheme produce", answer the questions below.

b-1) How large of total cultivated area (ha) in the scheme, describe at below table.

b-2) How much the volume is in irrigation scheme in year, describe at below table.

	maize	beans	cassava	potato	others
(ha)					
(kg)					

b-3) Do farmers sell avobe food as the general trend? Yes No

And If " Yes ", How do farmers sell as the general trend?

- (Multiple answers are allowed) Sell at market place by own Sell to middleman or trader
 Sell at own house

And If " Yes ", how much do farmers sell ? (→ describe on table of next page)

(Multiple answers are allowed)

	At market by own	To middleman or trader	At own house
maize	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
	<input type="checkbox"/> US\$/1 bundle	<input type="checkbox"/> US\$/1 bundle	<input type="checkbox"/> US\$/1 bundle
	1 sack = kg		1 bundle = kg
beans	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
	<input type="checkbox"/> US\$/1 bundle	<input type="checkbox"/> US\$/1 bundle	<input type="checkbox"/> US\$/1 bundle
	1 sack = kg		1 bundle = kg
cassava	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
	<input type="checkbox"/> US\$/1 pieces	<input type="checkbox"/> US\$/1 pieces	<input type="checkbox"/> US\$/1 pieces
	1 sack = kg		1 pieces = kg
potato	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
	<input type="checkbox"/> US\$/1 bucket	<input type="checkbox"/> US\$/1 bucket	<input type="checkbox"/> US\$/1 bucket
	1 sack = kg		1 bucket = kg
others	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or	<input type="checkbox"/> US\$/kg or
	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack	<input type="checkbox"/> US\$/1 sack
	<input type="checkbox"/> US\$/1 _____	<input type="checkbox"/> US\$/1 _____	<input type="checkbox"/> US\$/1 _____
	one sack = kg		1 pieces = kg

c) Do farmers use the fertilizer and how much volume? Yes (_____ kg/ha) No
and how do farmers get the fertilizer? by Own by MAF by other (ex. NGOs)

(↓ go on next page)

(↑ how?:)

CROPS(4/4)

- d) Do farmers use any insecticide and how much volume? and how do farmers get the insecticide?** Yes (_____ kg/ha) No
by Own by MAF by other (ex. NGOs)
(↑ how?:)
- e) Do farmers any weedicides and how much volume? and how do farmers get the weedicides?** Yes (_____ kg/ha) No
by Own by MAF by other (ex. NGOs)
(↑ how?:)

SOCIAL CONDITIONS

- 19 Do farmers use the irrigation water except for farming purpose?
(Multiple answers are allowed) drinking water washing clothes and take bath for livestock
Others / Please describe the detail at below.
[]
- 20 Does Women has work for farming activity?
(check the matching item) Yes No
- a) If respondent select above " No" , please interview the reason.**
[]
- b) If respondent select above " Yes" , please interview as follows.**
- a-1) What kind of activity does Women's works in farming ?
(Multiple answers are allowed) works for livestock land preparation planting harvesting
Others / Describe the detail at below:
[]
- a-2) If WG or WUAs exist, does Women participate in gathering as person who has the right ?
Yes No
- a-3) How many women who has the membership right are there in WG and WUAs?
Number of women : _____ persons
- 21 Is there any influence for the farmer's activity and/or social condition by the conflict?, if yes, interview the status
[]

Thank you for your cooperation.

Questionnaire (2nd)

1. Women's participation on WUA, Tradistional WG and/or farming activity

1). Is there any women's Group in the scheme? Yes -> How many ? _____

No _____

2). What kind of activities is women's Group?

3). Task allocation in WUA, Tradistional WG and rice farming activity. Check the appropriate activity for persons

Remarks : describe the ratio of labor force for items, if the answer is obtained.

Activity	Demarcation of Household labor			Hired labor	
	Male	Female	Children	Male	Female
1. Seed selection					
2. Making seedbed					
3. Land preparation					
4. Nursery					
5. Planting					
6. Fertilizing					
7. Spraying against insect					
8. Weeding					
9 Harvesting					
10. Threshing					
11. Winnowing					
12. Drying					
13. Processing / Cleaning					
14. Marketing					
15. Storing					

If any remarks, shall be describe below area;

2. Land ownership

Obtain the information on demarcation of Landowner ship or the Law at related agency or district office.

Describe the ratio (%) or area (ha) of landowner demarcation, if the answer is obtained.

- 1). Percentage (and/or ha) of land that is individually owned _____% or (ha)
- 2) Percentage (and/or ha) of land that is community/clan owned _____% or (ha)
- 3) Percentage (and/or ha) of land that is government/public owned _____% or (ha)

If any remarks, shall be describe below area;

3. Cropping pattern

RICE

Rainy season	1 (Jan)	2 (Feb)	3 (Mar)	4 (Apr)	5 (May)	6 (Jun)	7 (Jul)	8 (Aug)	9 (Sep)	10 (Oct)	11 (Nov)	12 (Dec)
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against insect												
5. Weeding												
6. Harvesting												
7. Others												
Dry season	1 (Jan)	2 (Feb)	3 (Mar)	4 (Apr)	5 (May)	6 (Jun)	7 (Jul)	8 (Aug)	9 (Sep)	10 (Oct)	11 (Nov)	12 (Dec)
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against insect												
5. Weeding												
6. Harvesting												
7. Others												

Vegetable

Maize	1 (Jan)	2 (Feb)	3 (Mar)	4 (Apr)	5 (May)	6 (Jun)	7 (Jul)	8 (Aug)	9 (Sep)	10 (Oct)	11 (Nov)	12 (Dec)
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against insect												
5. Weeding												
6. Harvesting												
7. Others												
Kind : _____	1 (Jan)	2 (Feb)	3 (Mar)	4 (Apr)	5 (May)	6 (Jun)	7 (Jul)	8 (Aug)	9 (Sep)	10 (Oct)	11 (Nov)	12 (Dec)
1. Land preparation												
2. Nursery												
3. Planting												
4. Spraying against insect												
5. Weeding												
6. Harvesting												
7. Others												

※) Remarks : Reference Document Seed of Life from Home page

4. Rice Seed variety

varieties	IR64	Nakroma	Membram	Hybrid	Marito	Ciheran	Red rice	Black rice
(%)								
varieties	Others							
(%)								

※) Remarks : Reference report :Seed of Life 3 Baseline Survey

5. Land preparation method (ratio :%)

varieties	by Buffalo	by personal hand tractor	By group's hand tractor	4-wheel tractor	Others
(%)					