6. Dili

District : Dili Irrigation scheme : Loskabubu 1-a-1S

1	No.		1	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		11/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		Loskabubu				A few in 5 years	
4	Name of District		Dili				A few in 10 years	
	Name of Sub-district		Dom Aleixo			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		Comoro				Climate change (decrease of river flow	
	Name of Aldeia		Badiak				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	778831				Damage to irrigation structure	
		Y=	9050073				Others	
	Grid reference in Irr. scheme except for above facility	X=	779353			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9051803			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)=	3.50		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	4.50				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	2.50				kg/ha as water fee	
		Number of gates=	2		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1,000				No	
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.90				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		20			Gate maintenance		
9	Actual irrigation area (ha)		10			Canal Cleaning		
10	Original or planned irrigation area (ha)		75.0			Canal Rehabilitation		
11	Original constructed year	Year's	1970s			Others		
		Exact year	1970		a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		✓
		Others						- Farm land was urbanized (no groups from 2008)
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- The paddy field was covered by houses due to urbanization. - No water has been supplyed from 2008. - No water users groups from 2008.		
		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$) (Contents of maintenance with high cost)	
		others	- Water level from the
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - The canal has been
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Dili Irrigation scheme : Hera 1-a-Add-1

1	No.		2
2	Date of Survey		11/12/2013
3	Name of Irrigation scheme		Hera
4	Name of District		Dili
	Name of Sub-district		Cristo Rei II
5	Name of Suco		Hera
	Name of Aldeia		Holidolar
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=	794410
		Y=	9054729
	Grid reference in Irr. scheme except for above facility	X=	794413
		Y=	9055197
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	0.90
		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		50
9	Actual irrigation area (ha)		38
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	2000s
		Exact year	2000
		Rehabilitated year	2001
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	- The Main canal is

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

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

7. Ermera

District : Ermera Irrigation scheme : BELULI 1-d-1S

1	No.		1
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		BELULI
4	Name of District		Ermera
	Name of Sub-district		Ermera
5	Name of Suco		TALIMORO
	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	300
		Width(m) for typical	0.40
		Height(m)=	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 supplyed 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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	- The Main Canal in BELULI is a Traditional Canal, but the canal from TALIMORO scheme is concrete built

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

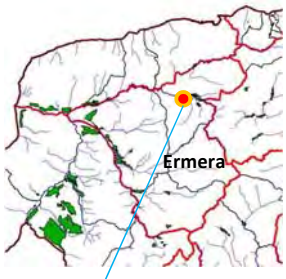
13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons ✓ (Details) - Small land slide made damage on the canal and sealed the canal.
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond 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 : Ermera Irrigation scheme : SARE 1-d-2S

1	No.		2	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		25/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		SARE				A few in 5 years	
4	Name of District		Ermera				A few in 10 years	
	Name of Sub-district		Hatulia			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		ASULAU				Climate change (decrease of river flow	
	Name of Aldeia		SARE				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	745919				Damage to irrigation structure	
		Y=	9032680				Others	
	Grid reference in Irr. scheme except for above facility	X=	746251			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9031698			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)=	38x25				Others	
		Height(m)=	3.00		a-2) How many number of WG or WUAs in the irrigation scheme ?			3
		Width/1span (m)=	1.00		a-3) Name of representative of WG or WUAs			- Cipriano Soares Britis
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	600				No	
		Width(m) for typical	0.90		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.20				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		200			Gate maintenance		
9	Actual irrigation area (ha)		310			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		250.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970s			Others		
		Exact year	1960		a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil						
		Others						

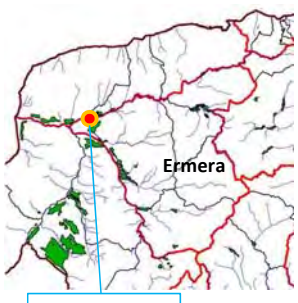
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) ●		Total Points	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 : Ermera Irrigation scheme : TALIMORO 1-d-3S

1	No.		3
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		TALIMORO
4	Name of District		Ermera
	Name of Sub-district		Ermera
5	Name of Suco		TALIMORO
	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=	767051
		Y=	9034491
	Grid reference in Irr. scheme except for above facility	X=	766883
		Y=	9034807
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	3.00
		Height(m)=	0.60
		Number of span =	1
		Width/1span (m)=	0.82
		Number of gates=	
	/ If Canal→	Length of main	800
		Width(m) for typical	1.00
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		14
10	Original or planned irrigation area (ha)		202.0
11	Original constructed year	Year's	Before 1970s
		Exact year	1965
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

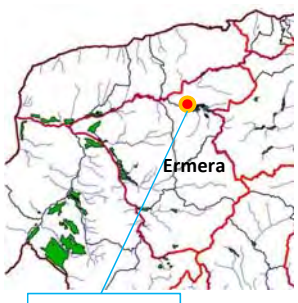
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Aileu Irrigation scheme : LAUALA 1-d-4S

1	No.		4
2	Date of Survey		26/12/2013
3	Name of Irrigation scheme		LAUALA
4	Name of District		Aileu
	Name of Sub-district		Aileu
5	Name of Suco		LAULA
	Name of Aldeia		ERBILHAL
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=	770293
		Y=	9034328
	Grid reference in Irr. scheme except for above facility	X=	769762
		Y=	9034730
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	4.0
		Height(m)=	1.60
		Width/1span (m)=	5.00
		Number of span =	1
		Number of gates=	2
	/ If Intake→	Length(m)=	
		Height(m)=	1.30
		Number of span =	1
		Width/1span (m)=	1.12
		Number of gates=	1
	/ If Canal→	Length of main	1,800
		Width(m) for typical	1.22
		Height(m)=	1.12
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		129
10	Original or planned irrigation area (ha)		2.0
11	Original constructed year	Year's	1980s
		Exact year	1982
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

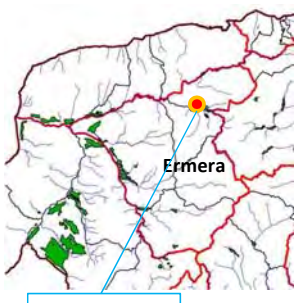
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Ermera Irrigation scheme : GLENO 1-d-5S

1	No.		5
2	Date of Survey		26/12/2013
3	Name of Irrigation scheme		GLENO
4	Name of District		Ermera
	Name of Sub-district		Ermera
5	Name of Suco		LAULA
	Name of Aldeia		VILANOVA
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=	769226
		Y=	9033505
	Grid reference in Irr. scheme except for above facility	X=	768855
		Y=	9034172
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	400
		Width(m) for typical	1.22
		Height(m)=	1.12
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		25
10	Original or planned irrigation area (ha)		2.0
11	Original constructed year	Year's	1980s
		Exact year	1982
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	- Water is spplyed from LAUALA
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

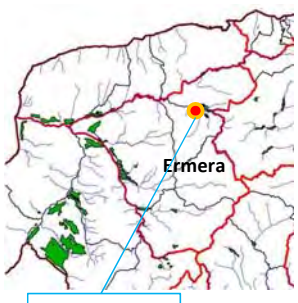
13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	✓
	Cannot keep the water level for some reasons (Details)	✓
	Obstruction of sand/stone (sedimentation)	✓
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	✓
	Cannot flow the water for some reasons (Details)	✓
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond 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 : Ermera Irrigation scheme : MOTA - HARE 1-d-6S

1	No.		6
2	Date of Survey		27/12/2013
3	Name of Irrigation scheme		MOTA - HARE
4	Name of District		Ermera
	Name of Sub-district		Railaco
5	Name of Suco		LILU
	Name of Aldeia		Hii
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=	768542
		Y=	9042667
	Grid reference in Irr. scheme except for above facility	X=	768264
		Y=	9042458
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.50
		Height(m)=	0.40
		Number of span =	1
		Width/1span (m)=	1.70
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.50
		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		140
9	Actual irrigation area (ha)		22
10	Original or planned irrigation area (ha)		28.0
11	Original constructed year	Year's	Before 1970s
		Exact year	1960
		Rehabilitated year	2008
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

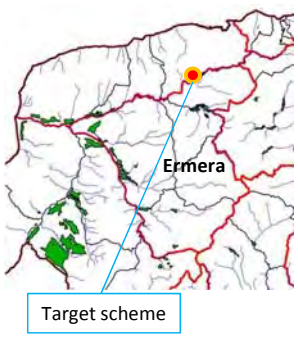
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : Ermera Irrigation scheme : KUKRU-MATE 1-d-6TR

1	No.		7
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	✓
		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	
		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	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	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

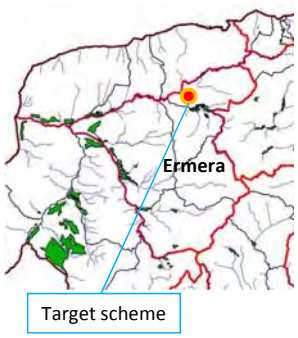
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : Ermera Irrigation scheme : MALABE 1-d-7TR

1	No.		8
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		MALABE
4	Name of District		Ermera
	Name of Sub-district		Atsabe
5	Name of Suco		MALABE
	Name of Aldeia		MALABE
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=	762368
		Y=	9014775
	Grid reference in Irr. scheme except for above facility	X=	762357
		Y=	9014432
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)=	0.30
		Height(m)=	0.15
		Number of span =	1
		Width/1span (m)=	0.20
		Number of gates=	0
	/ If Canal→	Length of main	300
		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	
		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)	✓ - Span is 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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Hamori Malabe- Feto Malabe
	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?			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)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

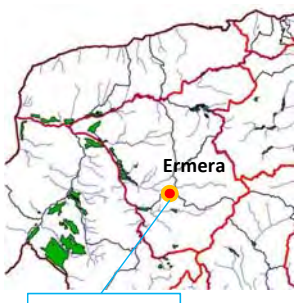
●Evaluation of Irrigation scheme

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

Size of area (10 pts, more than 100ha) -	Total Points	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 : Ermera Irrigation scheme : SIRUI 1-d-7S

1	No.		9
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		SIRUI
4	Name of District		Ermera
	Name of Sub-district		Atsabe
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	1.80
		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	

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

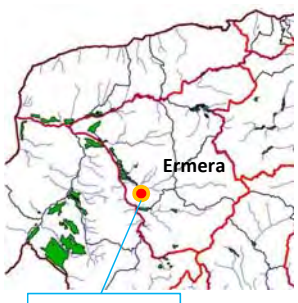
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Ermera Irrigation scheme : MERAP-PUH 1-d-8TR

1	No.		10
2	Date of Survey		9/1/2014
3	Name of Irrigation scheme		MERAP-PUH
4	Name of District		Ermera
	Name of Sub-district		Atsabe
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=	756492
		Y=	9011346
	Grid reference in Irr. scheme except for above facility	X=	755890
		Y=	9011700
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.15
		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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

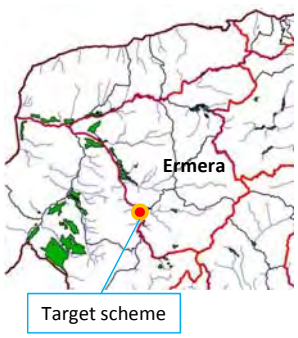
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●		●
Size of area (10 pts, more than 100ha) -		Total Points	70
Evaluation of degree on immediate treatment			A

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

●Location of Irrigation Scheme



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

District : Ermera Irrigation scheme : AIBEI 1-d-9TR

1	No.		11	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		10/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		AIBEI				A few in 5 years	
4	Name of District		Ermera				A few in 10 years	
	Name of Sub-district		Atsabe			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LAUBONU				Climate change (decrease of river flow	
	Name of Aldeia		SIRUI				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	756491				Damage to irrigation structure	
		Y=	9011343				Others	
	Grid reference in Irr. scheme except for above facility	X=	755880			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9011662			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 ?			3
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- Jilafu- Augi Leatuk- Matuk Bura
		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)=	6.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	2.00				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	2.00				kg/ha as water fee	
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	850				No	
		Width(m) for typical	1.50		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		180			Gate maintenance		
9	Actual irrigation area (ha)		include"8"			Canal Cleaning		✓
10	Original or planned irrigation area (ha)					Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970s			Others		
		Exact year			a-7) How often are the meeting held in a year?			2
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		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	70
Evaluation of degree on immediate treatment			A

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

●Location of Irrigation Scheme

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

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

1	No.		12
2	Date of Survey		26/12/2013
3	Name of Irrigation scheme		MANAFUNIA(replaced Manubabi)
4	Name of District		Ermera
	Name of Sub-district		Atsabe
5	Name of Suco		ATARA
	Name of Aldeia		WABE
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=	762293
		Y=	9006748
	Grid reference in Irr. scheme except for above facility	X=	762215
		Y=	9007027
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.00
		Height(m)=	0.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		75
9	Actual irrigation area (ha)		42
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970s
		Exact year	1942
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

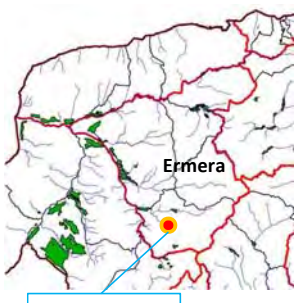
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			4
	a-3) Name of representative of WG or WUAs			Daibuk moris Domin Feto Halibur Prom Bapo
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	*Manubabi has no paddy land due to urbanaization and all the farmers moved to Manufinia. *Manufinia has 35 ha farmland but only for vegetable, no paddy field.		

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Ermera　　Irrigation scheme : SAMARA　　1-d-11TR

1	No.		13
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	
	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	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	3.00
		Height(m)=	0.80
		Number of span =	1
		Width/1span (m)=	1.60
		Number of gates=	1
	/ If Canal→	Length of main	200
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		250
9	Actual irrigation area (ha)		414
10	Original or planned irrigation area (ha)		370.0
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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect)		
		(Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			5
	a-3) Name of representative of WG or WUAs			- Lulibei- Egal Ave- Tanante- Taraguri- Fatumetu
	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?			5
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

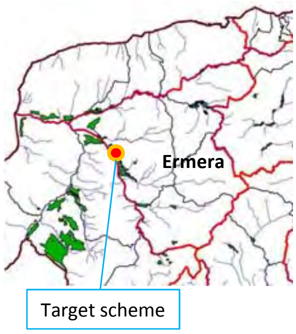
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Ermera Irrigation scheme : MANUGUA 1-d-12TR

1	No.		14
2	Date of Survey		11/1/2014
3	Name of Irrigation scheme		MANUGUA
4	Name of District		Ermera
	Name of Sub-district		Hatulia
5	Name of Suco		AILELO
	Name of Aldeia		TATA
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=	754811
		Y=	9024313
	Grid reference in Irr. scheme except for above facility	X=	754566
		Y=	9023795
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)=	0.97
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	2.50
		Number of gates=	0
	/ If Canal→	Length of main	
		Width(m) for typical	1.40
		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		50
9	Actual irrigation area (ha)		16
10	Original or planned irrigation area (ha)		72.0
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	

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

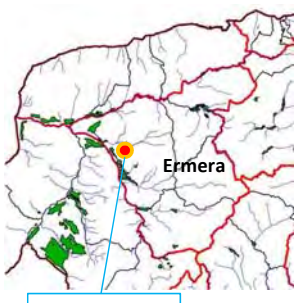
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

8. Lautém

District : Lautém Irrigation scheme : CAIDABADA 6-a-1TC

1	No.		1
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		CAIDABADA
4	Name of District		Lautém
	Name of Sub-district		Luro
5	Name of Suco		AFABUBU-DAUDERE
	Name of Aldeia		NO AILAFA
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=	260888
		Y=	9060094.51
	Grid reference in Irr. scheme except for above facility	X=	260551
		Y=	9060248
7	What kind of structure?	Weir	✓
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	19.0
		Height(m)=	2.00
		Width/1span (m)=	1.70
		Number of span =	1
		Number of gates=	1
	/ If Intake→	Length(m)=	4.00
		Height(m)=	2.30
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	1
	/ If Canal→	Length of main	150
		Width(m) for typical	2.90
		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		95
9	Actual irrigation area (ha)		80
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

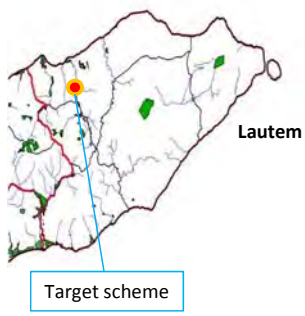
13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : AFABUBU 6-a-2TC

1	No.		2
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		AFABUBU
4	Name of District		Lautém
	Name of Sub-district		Luro
5	Name of Suco		AFABUBU
	Name of Aldeia		ODOFURU
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=	260570.77
		Y=	9058454.65
	Grid reference in Irr. scheme except for above facility	X=	260881
		Y=	9058514
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		30
9	Actual irrigation area (ha)		23
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

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

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

Total Points **60**

Evaluation of degree on immediate treatment **B**

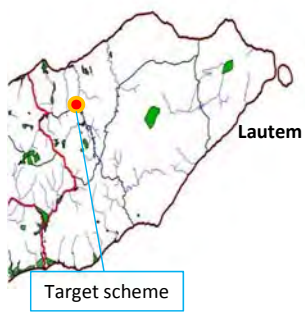
* Evaluation criteria

A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)

B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)

C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : PAPAPA 6-a-3S

1	No.		3
2	Date of Survey		22/12/2013
3	Name of Irrigation scheme		PAPAPA
4	Name of District		Lautém
	Name of Sub-district		Lospalos
5	Name of Suco		FUILORO
	Name of Aldeia		LOS PALA
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=	278808
		Y=	9057940
	Grid reference in Irr. scheme except for above facility	X=	280054
		Y=	9058476
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	15.0
		Height(m)=	0.80
		Width/1span (m)=	0.90
		Number of span =	3
		Number of gates=	0
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.20
		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		80
9	Actual irrigation area (ha)		944
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	1970s
		Exact year	1976
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

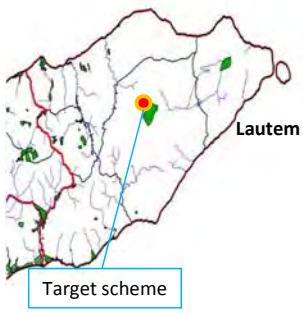
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : MALAISORO 6-a-4TR

1	No.		4
2	Date of Survey		7/1/2014
3	Name of Irrigation scheme		MALAISORO
4	Name of District		Lautém
	Name of Sub-district		Tutuala
5	Name of Suco		MEHANA
	Name of Aldeia		PORLAMANO
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=	298507.23
		Y=	9069578.34
	Grid reference in Irr. scheme except for above facility	X=	301434
		Y=	9069120
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		417
9	Actual irrigation area (ha)		443
10	Original or planned irrigation area (ha)		521.0
11	Original constructed year	Year's	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	- Paddy field is higher
		Problems on the other facilities	

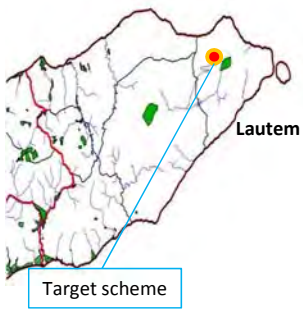
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme	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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : IRABERE 6-a-5TR

1	No.		5
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		IRABERE
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		TIRILOLO
	Name of Aldeia		ETEUATA
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=	251234
		Y=	9033378
	Grid reference in Irr. scheme except for above facility	X=	252102
		Y=	9033012
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)=	100.00
		Height(m)=	4.00
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	1
	/ If Canal→	Length of main	800
		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		110
9	Actual irrigation area (ha)		156
10	Original or planned irrigation area (ha)		180.0
11	Original constructed year	Year's	2000s
		Exact year	2001
		Rehabilitated year	2007
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	- River bed is 3m
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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group. '- River bed is 3m lower then paddy field.	

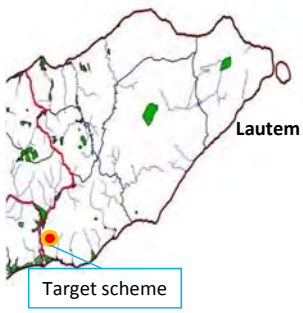
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : MUALIU 6-a-6TR

1	No.		6
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		MUALIU
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR
	Name of Aldeia		WETAMATA
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=	269584.27
		Y=	9038260.86
	Grid reference in Irr. scheme except for above facility	X=	270333
		Y=	9038229
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	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		16
9	Actual irrigation area (ha)		14
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	

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

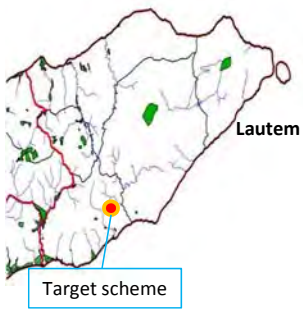
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : AFUMBERE 6-a-7TR

1	No.		7
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		AFUMBERE
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR I
	Name of Aldeia		ILIOMAR
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=	270087
		Y=	9037516
	Grid reference in Irr. scheme except for above facility	X=	269839
		Y=	9036720
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	4.00
		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		15
9	Actual irrigation area (ha)		14
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances 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	

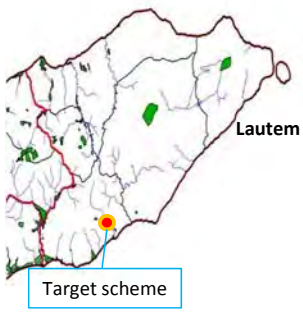
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : IRADARATE 6-a-8TR

1	No.		8
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		IRADARATE
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR I
	Name of Aldeia		ILIOMAR
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=	264046
		Y=	9034558
	Grid reference in Irr. scheme except for above facility	X=	264022
		Y=	9034114
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	1.80
		Height(m)=	1.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		32
9	Actual irrigation area (ha)		109
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	1980s
		Exact year	1988
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

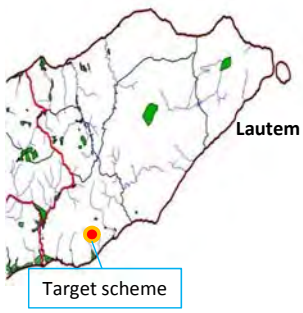
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : IRAMASUL 6-a-9TR

1	No.		9
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		IRAMASUL
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR I
	Name of Aldeia		ILIOMAR
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=	264573.93
		Y=	9033786.85
	Grid reference in Irr. scheme except for above facility	X=	264799
		Y=	9033244
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	2.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		Include"8"
10	Original or planned irrigation area (ha)		140.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2002
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

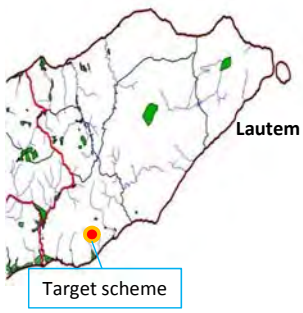
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautem Irrigation scheme : VENOSI 6-a-10TR

1	No.		10
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		VENOSI
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR I
	Name of Aldeia		ILIOMAR
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=	251234
		Y=	9033378
	Grid reference in Irr. scheme except for above facility	X=	251320
		Y=	9033092
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)=	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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	- River bed is 3m
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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group. '- River bed is 3m lower then paddy field.	

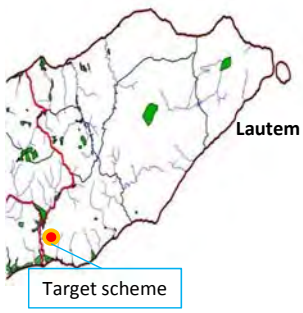
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : MAUMA'A 6-a-11TR

1	No.		11
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	1.00
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		14
9	Actual irrigation area (ha)		17
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	

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

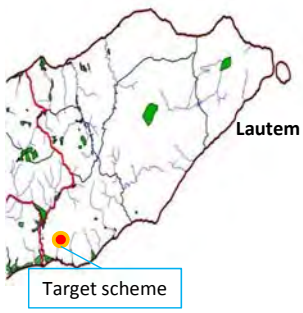
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautem Irrigation scheme : TOPOLOBE 6-a-12TR

1	No.		12
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	✓
		Weir	
		Others	
	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	✓
		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		30
9	Actual irrigation area (ha)		15
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

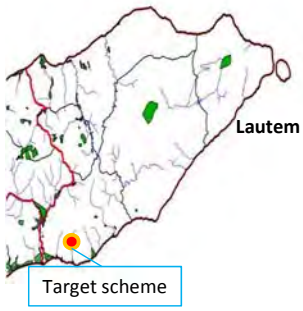
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost 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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : FAHEBERE 6-a-13TR

1	No.		13
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		FAHEBERE
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		ILIOMAR I
	Name of Aldeia		LIHINA
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=	269571.84
		Y=	9038271.53
	Grid reference in Irr. scheme except for above facility	X=	270485
		Y=	9038086
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	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	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

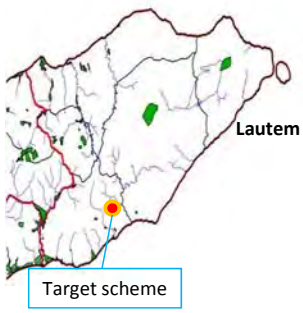
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : APAT 6-a-14TR

1	No.		14
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		APAT
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		FUAT
	Name of Aldeia		RUMUTAU
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=	267515
		Y=	9038904
	Grid reference in Irr. scheme except for above facility	X=	267666
		Y=	9038617
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	280
		Width(m) for typical	2.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		12
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

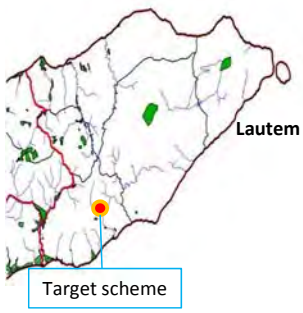
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : NUNDEDER 6-a-15TR

1	No.		15
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		NUNDEDER
4	Name of District		Lautem
	Name of Sub-district		Iliomar
5	Name of Suco		FUAT
	Name of Aldeia		WATA-OMAR
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=	264565
		Y=	9039961
	Grid reference in Irr. scheme except for above facility	X=	265425
		Y=	9040156
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	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

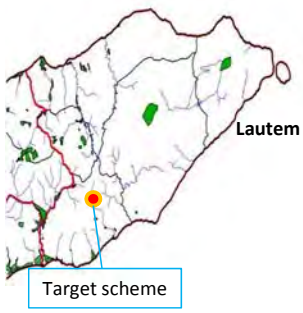
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : FENNUR(MAMNUR) 6-a-16TR

1	No.		16
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		FENNUR(MAMNUR)
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		TIRILOLO
	Name of Aldeia		ETEVATA
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=	256098
		Y=	9032574
	Grid reference in Irr. scheme except for above facility	X=	255922
		Y=	9032200
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	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	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

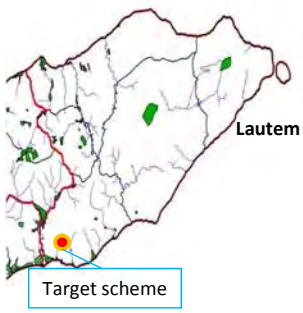
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme	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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : ROFO 6-a-17TR

1	No.		17
2	Date of Survey		9/1/2014
3	Name of Irrigation scheme		ROFO
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		AILEBERE
	Name of Aldeia		LALUMATU
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=	258294.72
		Y=	9034520.84
	Grid reference in Irr. scheme except for above facility	X=	258360
		Y=	9034226
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.10
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		17
9	Actual irrigation area (ha)		4
10	Original or planned irrigation area (ha)		14.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- No agricutural activities - Scheme has been abandoned for 5 years. '- Farmers need technology of farming, and 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	

●Evaluation of Irrigation scheme

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

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

Total Points **70**

Evaluation of degree on immediate treatment **A**

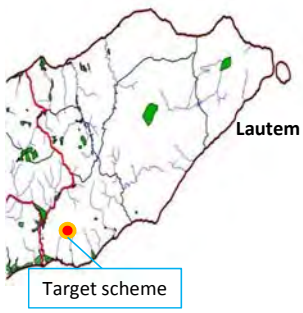
* Evaluation criteria

A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)

B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)

C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : MODO-MAU 6-a-18TR

1	No.		18
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		MODO-MAU
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		CAINLEU
	Name of Aldeia		LARIMI
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=	250922
		Y=	9038802
	Grid reference in Irr. scheme except for above facility	X=	252170
		Y=	9039404
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	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	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

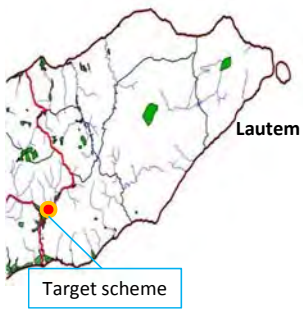
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : IRAFOK 6-a-19TR

1	No.		19
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		IRAFOK
4	Name of District		Lautém
	Name of Sub-district		Iliomar
5	Name of Suco		CAINLEU
	Name of Aldeia		MALUHIRA
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=	250679
		Y=	9037358
	Grid reference in Irr. scheme except for above facility	X=	251037
		Y=	9036412
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	20.0
		Height(m)=	3.00
		Width/1span (m)=	8.00
		Number of span =	1
		Number of gates=	0
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	2.00
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		6
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2007
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of 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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		

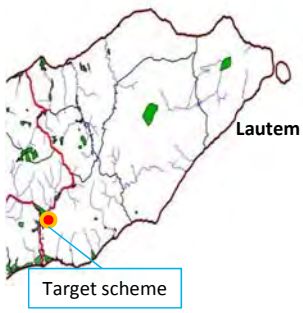
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : SOROKAI 6-a-20TR

1	No.		20
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
	/ 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) =	2.5
		Depth(m)=	0.80
		Number of Pond =	1
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		16
10	Original or planned irrigation area (ha)		45.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		

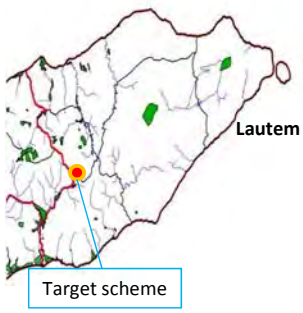
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

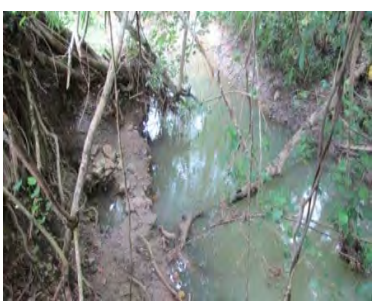
●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme





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

District : 0 Irrigation scheme : Fanufuru 6-a-21TR

1	No.		21
2	Date of Survey		
3	Name of Irrigation scheme		Fanufuru
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

District : Lautém Irrigation scheme : IRALAFAI 6-a-22TR

1	No.		22
2	Date of Survey		9/1/2014
3	Name of Irrigation scheme		IRALAFAI
4	Name of District		Lautém
	Name of Sub-district		Lospalos
5	Name of Suco		LORE I
	Name of Aldeia		OTHCOTCHAO
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=	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
9	Actual irrigation area (ha)		16
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

●Evaluation of Irrigation scheme

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

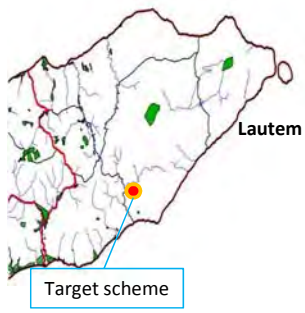
Size of area (10 pts, more than 100ha) -

Total Points **60**

Evaluation of degree on immediate treatment **B**

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

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : Caidabada 6-a-23TR

1	No.		23
2	Date of Survey		
3	Name of Irrigation scheme		Caidabada
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : LAIVAI 6-a-24TR

1	No.		24
2	Date of Survey		22/1/2014
3	Name of Irrigation scheme		LAIVAI
4	Name of District		Lautém
	Name of Sub-district		Lautém
5	Name of Suco		ILILAI
	Name of Aldeia		ILILAIOEQUISI
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=	250734
		Y=	9068623
	Grid reference in Irr. scheme except for above facility	X=	250706
		Y=	9068925
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	200
		Width(m) for typical	0.80
		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		43
9	Actual irrigation area (ha)		167
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

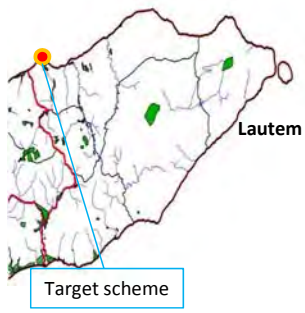
13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost 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) ✓ 300,000
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond for some reasons (Details)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on the other facilities

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : BATAKIA 6-a-25TR

1	No.		25
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		BATAKIA
4	Name of District		Lautém
	Name of Sub-district		Lautém
5	Name of Suco		ILILAI
	Name of Aldeia		SAMUALARI
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=	250419
		Y=	9069018
	Grid reference in Irr. scheme except for above facility	X=	250595
		Y=	9069760
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,300
		Width(m) for typical	3.50
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		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
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

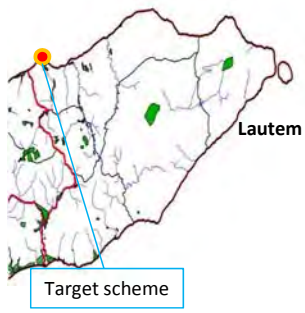
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : HOCARA 6-a-26TR

1	No.		26	
2	Date of Survey		20/12/2013	
3	Name of Irrigation scheme		HOCARA	
4	Name of District		Lautem	
	Name of Sub-district		Lautem	
5	Name of Suco		SERELAU	
	Name of Aldeia		RA'ANU	
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=	263343.34	
		Y=	9067305.86	
	Grid reference in Irr. scheme except for above facility	X=	263423	
		Y=	9068172	
7	What kind of structure?	Weir		
		Intake		
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	1,000	
		Width(m) for typical	0.55	
		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		60	
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		

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

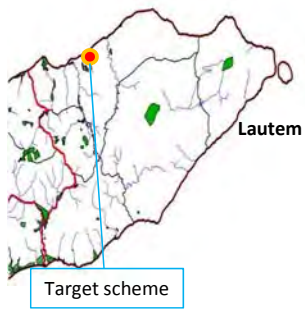
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Lautem Irrigation scheme : DORIA'ARA 6-a-27TR

1	No.		27
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		DORIA'ARA
4	Name of District		Lautem
	Name of Sub-district		Lautem
5	Name of Suco		SERELAU
	Name of Aldeia		RA'ANU
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=	263363.16
		Y=	9067451.87
	Grid reference in Irr. scheme except for above facility	X=	263134
		Y=	9068710
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	0.90
		Height(m)=	0.55
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

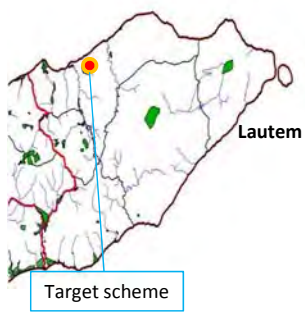
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : CAI-CAI 6-a-28TR

1	No.		28	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		21/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		CAI-CAI				A few in 5 years	
4	Name of District		Lautem				A few in 10 years	
	Name of Sub-district		Lautem			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		SERELAU				Climate change (decrease of river flow	
	Name of Aldeia		RA'ANU				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	262554				Damage to irrigation structure	
		Y=	9068080				Others	
	Grid reference in Irr. scheme except for above facility	X=	262405			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9068064			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Intake					No	✓
		Canal	✓		a) In case of YES			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	100				No	✓
		Width(m) for typical	1.20		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		30			Gate maintenance		
9	Actual irrigation area (ha)		55			Canal Cleaning		
10	Original or planned irrigation area (ha)		20.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		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	✓					js to establish a group.
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

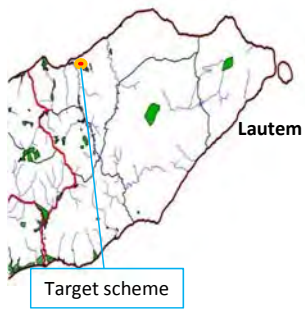
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : TEINARA 6-a-29TR

1	No.		29
2	Date of Survey		20/12/2013
3	Name of Irrigation scheme		TEINARA
4	Name of District		Lautem
	Name of Sub-district		Lautem
5	Name of Suco		SERELAU
	Name of Aldeia		RA'ANU
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=	262551
		Y=	9067984
	Grid reference in Irr. scheme except for above facility	X=	261114
		Y=	9068435
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,800
		Width(m) for typical	4.50
		Height(m)=	2.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		80
9	Actual irrigation area (ha)		45
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	

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

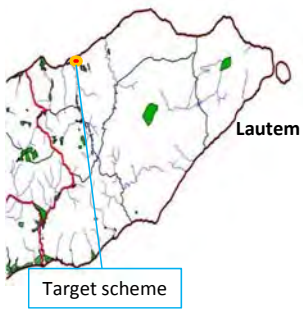
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : WARU 6-a-30TR

1	No.		30
2	Date of Survey		19/12/2013
3	Name of Irrigation scheme		WARU
4	Name of District		Lautem
	Name of Sub-district		Lautem
5	Name of Suco		PARLAMENTO
	Name of Aldeia		MORO
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=	271424
		Y=	9076148
	Grid reference in Irr. scheme except for above facility	X=	271184
		Y=	9076566
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	1,650
		Width(m) for typical	0.50
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		25
9	Actual irrigation area (ha)		17
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need technology of farming, and guidances and trainings to establish a water users group.	

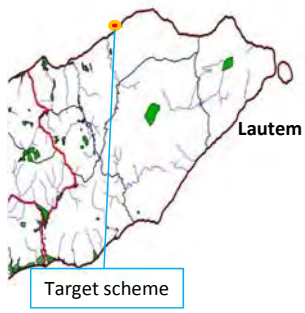
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : LAU-IMI 6-a-31TR

1	No.		31
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	

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

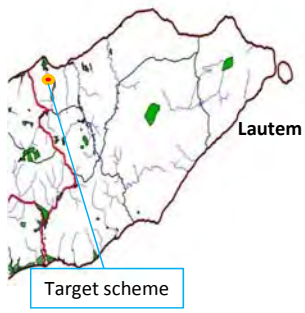
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautem Irrigation scheme : RAIMOKO 6-a-32TR

1	No.		32
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		RAIMOKO
4	Name of District		Lautem
	Name of Sub-district		Lautem
5	Name of Suco		DAUDERE
	Name of Aldeia		SAQUELI
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=	259659
		Y=	9067712
	Grid reference in Irr. scheme except for above facility	X=	257982
		Y=	9069141
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,800
		Width(m) for typical	2.10
		Height(m)=	2.45
	/ 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)		32
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

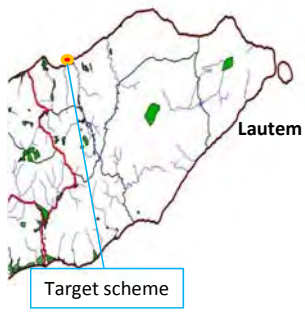
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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
-			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 : NASA 6-a-33TR

1	No.		33
2	Date of Survey		27/1/2014
3	Name of Irrigation scheme		NASA
4	Name of District		Lautem
	Name of Sub-district		Lautem
5	Name of Suco		MAINA I
	Name of Aldeia		SOLERESI
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=	268778.53
		Y=	9070970.57
	Grid reference in Irr. scheme except for above facility	X=	268483
		Y=	9071463
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,500
		Width(m) for typical	1.50
		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		125
9	Actual irrigation area (ha)		41
10	Original or planned irrigation area (ha)		96.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Paddy field has been abondoned. '- Farmers need technology of farming, and 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	

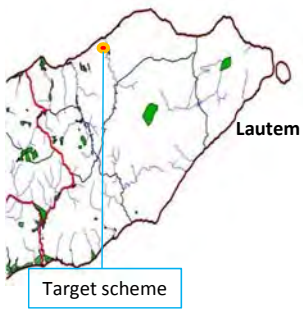
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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)

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : MATARARA 6-a-34TR

1	No.		34
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	✓
		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	✓
		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	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	✓
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

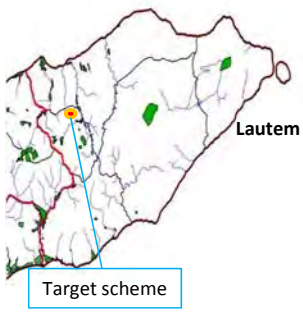
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : AFANAMI 6-a-35TR

1	No.		35
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	✓
		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	1.10
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		18
9	Actual irrigation area (ha)		21
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Paddy field was dedtroyed by floow 10 years ago and abondoned for 10 years '- Farmers need guidances and trainings to establish a water users group.	

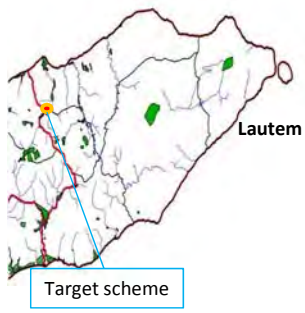
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautem Irrigation scheme : BUI-BUI 6-a-36TR

1	No.		36
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
	/ 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	1.10
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		61
9	Actual irrigation area (ha)		Include"35"
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Intake was destroyed by flood in 2008. - Farmers want to reactive the scheme. '- Farmers need guidances and trainings to establish a water users group.	

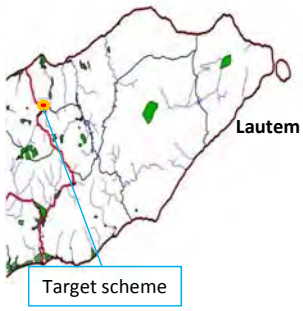
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautem Irrigation scheme : TUTU 6-a-37TR

1	No.		37
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		TUTU
4	Name of District		Lautem
	Name of Sub-district		Luro
5	Name of Suco		WAIROKE
	Name of Aldeia		LUTURU
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=	255752
		Y=	9054426
	Grid reference in Irr. scheme except for above facility	X=	255377
		Y=	9054998
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	800
		Width(m) for typical	2.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		23
9	Actual irrigation area (ha)		75
10	Original or planned irrigation area (ha)		12.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	✓
			js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Canal was destroyed by flood in 2008. - Paddy field is fuuly ocuppyed by trees. - No agricultural activities - 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	

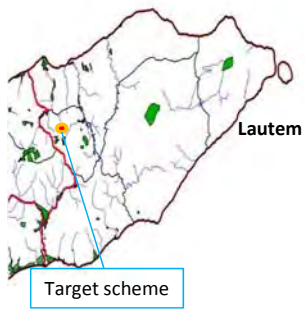
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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)

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : Motoira 6-a-38TR

1	No.		38
2	Date of Survey		
3	Name of Irrigation scheme		Motoira
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

District : Lautem Irrigation scheme : LUTURU 6-a-39TR

1	No.		39
2	Date of Survey		21/1/2014
3	Name of Irrigation scheme		LUTURU
4	Name of District		Lautem
	Name of Sub-district		Luro
5	Name of Suco		WAIROKE
	Name of Aldeia		LUTURU
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=	254102.23
		Y=	9054267.19
	Grid reference in Irr. scheme except for above facility	X=	254187
		Y=	9054678
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	1.10
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		51
9	Actual irrigation area (ha)		66
10	Original or planned irrigation area (ha)		90.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2007
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances 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	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

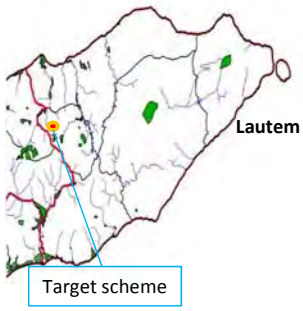
●Evaluation of Irrigation scheme

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		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 : IRAOMANA(IRAODAN) 6-a-40TR

1	No.		40
2	Date of Survey		27/1/2014
3	Name of Irrigation scheme		IRAOMANA(IRAODAN)
4	Name of District		Lautem
	Name of Sub-district		Luro
5	Name of Suco		KOTAMUTU
	Name of Aldeia		ETANISI
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=	262512
		Y=	9056968
	Grid reference in Irr. scheme except for above facility	X=	261846
		Y=	9057802
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	900
		Width(m) for typical	1.20
		Height(m)=	0.90
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		21
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.	

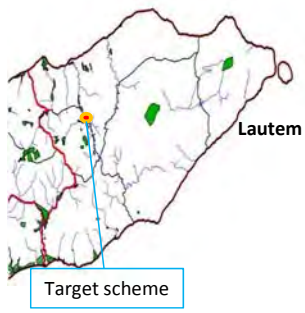
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : Apat 6-a-41TR

1	No.		41
2	Date of Survey		
3	Name of Irrigation scheme		Apat
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

District : Lautem Irrigation scheme : IRALAFANU 6-a-42TR

1	No.		42
2	Date of Survey		30/1/2014
3	Name of Irrigation scheme		IRALAFANU
4	Name of District		Lautem
	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	
	Grid reference at intake/Pond/lake/spring/pump	X=	264364.63
		Y=	9052382.68
	Grid reference in Irr. scheme except for above facility	X=	264209
		Y=	9052388
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	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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		- River bed is 5m
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)		✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Scheme has benn utilized for 10 years. '- Farmers need guidances and trainings to establish a water users group. - River bed is 5m lower then paddy field		

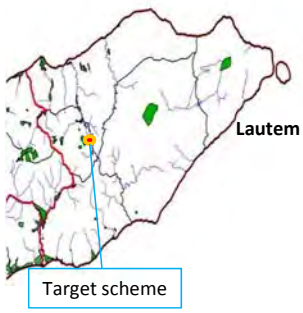
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : Lautem Irrigation scheme : TOBORO 6-a-43TR

1	No.		43
2	Date of Survey		27/1/2014
3	Name of Irrigation scheme		TOBORO
4	Name of District		Lautem
	Name of Sub-district		Luro
5	Name of Suco		LURO
	Name of Aldeia		AMAHIRA
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=	264096.11
		Y=	9056128.53
	Grid reference in Irr. scheme except for above facility	X=	263868
		Y=	9055711
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	50
		Width(m) for typical	2.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		8
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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Scheme has been abandoned since 1984.	

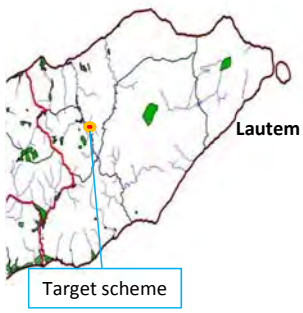
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautem Irrigation scheme : SORUVACO 6-a-44TR

1	No.		44
2	Date of Survey		27/1/2014
3	Name of Irrigation scheme		SORUVACO
4	Name of District		Lautem
	Name of Sub-district		Luro
5	Name of Suco		MAINA I
	Name of Aldeia		NARUNTEM
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=	263501
		Y=	9056194
	Grid reference in Irr. scheme except for above facility	X=	263424
		Y=	9056532
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.50
		Height(m)=	4.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		65
9	Actual irrigation area (ha)		7
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Paddy field has been abondoned. - Farmers need technology of farming, and 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	

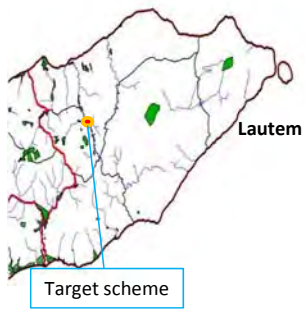
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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)

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : IPAREN 6-a-45TR

1	No.		45
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	
	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	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	150
		Width(m) for typical	1.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		15
9	Actual irrigation area (ha)		4
10	Original or planned irrigation area (ha)		14.5
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 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.		

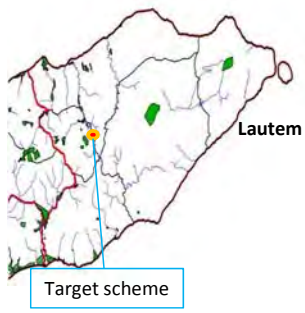
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Lautém Irrigation scheme : IRAPERE(LURO) 6-a-46TR

1	No.		46
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	
	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	
	/ 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)=	0.65
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		71
9	Actual irrigation area (ha)		35
10	Original or planned irrigation area (ha)		80.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

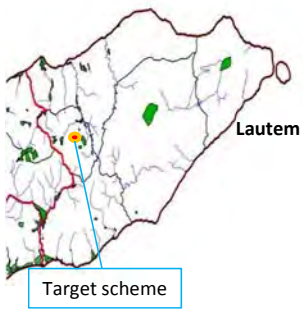
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓ - Water goes to the paddy field direcly.
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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			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 : Lautém Irrigation scheme : ADOBERE 6-a-47TR

1	No.		47
2	Date of Survey		30/1/2014
3	Name of Irrigation scheme		ADOBERE
4	Name of District		Lautém
	Name of Sub-district		Luro
5	Name of Suco		LURO
	Name of Aldeia		ALAHIRA
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=	263925
		Y=	9052794
	Grid reference in Irr. scheme except for above facility	X=	264024
		Y=	9052964
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	80
		Width(m) for typical	1.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		60
9	Actual irrigation area (ha)		3
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	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)	✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.	

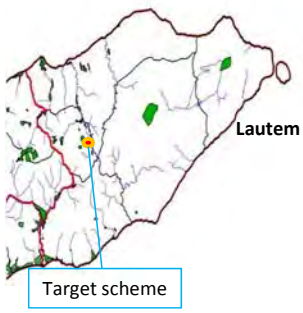
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : MIATAU 6-a-48TR

1	No.		48
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		MIATAU
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	260694
		Y=	9056678
	Grid reference in Irr. scheme except for above facility	X=	260563
		Y=	9056774
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	70
		Width(m) for typical	1.00
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		22
9	Actual irrigation area (ha)		10
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of 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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		

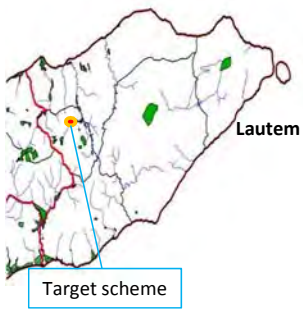
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Lautém Irrigation scheme : AMAHIRA 6-a-49TR

1	No.		49
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
	/ 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	1.10
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		35
9	Actual irrigation area (ha)		141
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	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)		✓
				js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances and trainings to establish a water users group.		

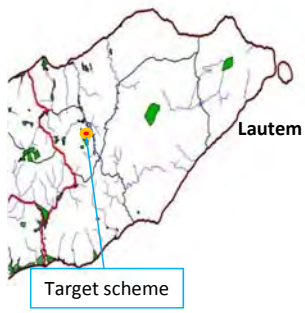
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Lautém Irrigation scheme : TAUBUTI 6-a-50TR

1	No.		50
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
	/ 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	40
		Width(m) for typical	1.00
		Height(m)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		12
9	Actual irrigation area (ha)		Include"49"
10	Original or planned irrigation area (ha)		9.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		- River bed is 3m
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)		✓ js to establish a group.
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Farmers need guidances 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

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

District : 0 Irrigation scheme : Too-boro 6-a-51TR

1	No.		51
2	Date of Survey		
3	Name of Irrigation scheme		Too-boro
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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
2	Date of Survey		27/1/2014
3	Name of Irrigation scheme		KAIDAVALUN
4	Name of District		Lautém
	Name of Sub-district		Luro
5	Name of Suco		AFABUBU
	Name of Aldeia		DALARI
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=	260303
		Y=	9058344
	Grid reference in Irr. scheme except for above facility	X=	261565
		Y=	9058308
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	700
		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		25
9	Actual irrigation area (ha)		28
10	Original or planned irrigation area (ha)		16.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	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)		✓
				js 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	- Farmers need guidances and trainings to establish a water users group.		

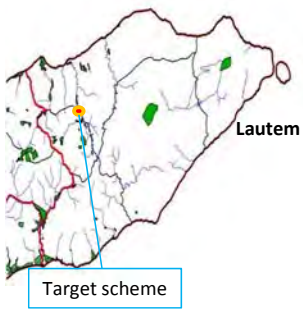
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance 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	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

9. Liquiçà

District : Liquiça Irrigation scheme : FAULARA 1-c-1S

1	No.		1
2	Date of Survey		29/12/2013
3	Name of Irrigation scheme		FAULARA
4	Name of District		Liquiça
	Name of Sub-district		Maubara
5	Name of Suco		LEOTELA
	Name of Aldeia		LEVA
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=	747867
		Y=	9034258
	Grid reference in Irr. scheme except for above facility	X=	747573
		Y=	9034221
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	640
		Width(m) for typical	1.40
		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		200
9	Actual irrigation area (ha)		60
10	Original or planned irrigation area (ha)		130.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of 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 ?		10
	a-3) Name of representative of WG or WUAs		- Altino Campos
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	The old Scheme Details: INTAKE: 02 Gates/ W: 2.5mt / H: 1.20mt / Span: 2.5mt / CANAL: Length 2000mt / H: 1.20mt/ W: 1.80mt On falulara there are two irrigation Facilities the water still running through the Old Facility / the Newest was built in 2013 (Free Intake / Weir / Canal	

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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

District : Liquiça Irrigation scheme : GICU IRLELO 1-c-2S

1	No.		2
2	Date of Survey		29/12/2013
3	Name of Irrigation scheme		GICU IRLELO
4	Name of District		Liquiça
	Name of Sub-district		Maubara
5	Name of Suco		GICU
	Name of Aldeia		IRLELO
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=	740744
		Y=	9032936
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ 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	2,350
		Width(m) for typical	1.84
		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		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	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		- The constantly
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			- 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	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			1
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- 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 sheme, no agricultural acitivites 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			A/A100

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

●Location of Irrigation Scheme

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

District : Liquiça Irrigation scheme : MANLEKI 1-c-3TR

1	No.		3
2	Date of Survey		29/12/2013
3	Name of Irrigation scheme		MANLEKI
4	Name of District		Liquiça
	Name of Sub-district		Maubara
5	Name of Suco		VATUVORI
	Name of Aldeia		LEVA
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=	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	✓
		Broken	
		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 Presents some damages
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

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

1	No.		4
2	Date of Survey		29/12/2013
3	Name of Irrigation scheme		GOU LOLO TELO
4	Name of District		Liquiça
	Name of Sub-district		Maubara
5	Name of Suco		VATUVORI
	Name of Aldeia		LEVA
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=	747867
		Y=	9034258
	Grid reference in Irr. scheme except for above facility	X=	745581
		Y=	9033871
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)		
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 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	

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

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

Target scheme

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

District : Liquiça Irrigation scheme : WATU-BORO 1-c-5TR

1	No.		5
2	Date of Survey		30/12/2013
3	Name of Irrigation scheme		WATU-BORO
4	Name of District		Liquiça
	Name of Sub-district		Maubara
5	Name of Suco		LESADILA
	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=	735459
		Y=	9032794
	Grid reference in Irr. scheme except for above facility	X=	734247
		Y=	9033905
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	1.30
		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		100
9	Actual irrigation area (ha)		101
10	Original or planned irrigation area (ha)		9.0
11	Original constructed year	Year's	Before 1970
		Exact year	1940
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	- Pond / Lake
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		✓
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	✓
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		✓
			rmers moved to another place due to non functional Irrigation Scheme.	
		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	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	others	
	Problems on Canal	✓
	Broken	✓
	Not functional by deterioration	✓
	Cannot operate the gate	
	Cannot flow the water for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on Pond/Lake	
	Broken	
	Not functional by deterioration	
	Cannot operate the outlet gate	
	Cannot keep the water in pond for some reasons (Details)	
	High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
	Others	
	Problems on the other facilities	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

District : Liquiça Irrigation scheme : BANETUR 1-c-6TR

1	No.		6
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=	*No water source
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	749926
		Y=	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	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : Liquiça Irrigation scheme : GUGULEOR 1-c-7TR

1	No.		7
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	Before1960
		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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- 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 establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- The scheme is abandoned.		

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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme

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

10. Manatuto

District : MANATUTO Irrigation scheme : Laku wen 2 3-a-1TR

1	No.		1
2	Date of Survey		11/2/2014
3	Name of Irrigation scheme		Laku wen 2
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		FEITUK RIN
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=	176808
		Y=	9004240
	Grid reference in Irr. scheme except for above facility	X=	176949
		Y=	9003834
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)=	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	Year's	1990s
		Exact year	1997
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

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

●Evaluation of Irrigation scheme

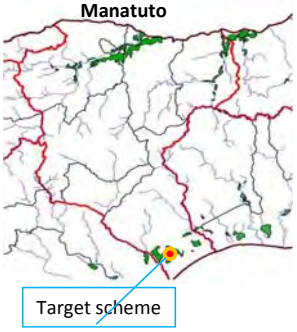
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	20
-		

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE SUKAER HUN 3-a-2S

1	No.		2
2	Date of Survey		12/2/2014
3	Name of Irrigation scheme		WE SUKAER HUN
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		FEHUR RIU
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	
		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)=	1.50
		Number of span =	1
		Width/1span (m)=	8.00
		Number of gates=	
	/ 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) =	200 x 8
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		420
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

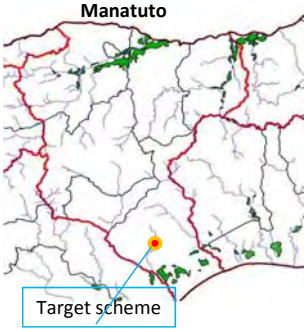
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	**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.		3
2	Date of Survey		11/2/2014
3	Name of Irrigation scheme		BORA
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		FEHUR RIU
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=	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	100
		Width(m) for typical	3.00
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	100 x 8
		Depth(m)=	
		Number of Pond =	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	✓
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

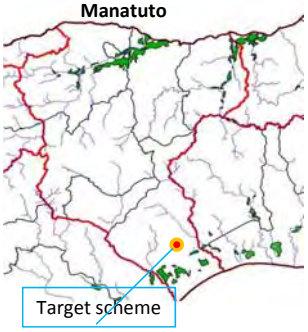
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	**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 : MANATUTO Irrigation scheme : MALARAHUN 3-a-4S

1	No.		4
2	Date of Survey		20/12/2013
3	Name of Irrigation scheme		MALARAHUN
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		AILILI
	Name of Aldeia		MALARAHUN
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=	829678
		Y=	9056174
	Grid reference in Irr. scheme except for above facility	X=	830204
		Y=	9056474
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)=	80.00
		Height(m)=	1.50
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	0
	/ If Canal→	Length of main	200
		Width(m) for typical	1.20
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		250
9	Actual irrigation area (ha)		101
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2009
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

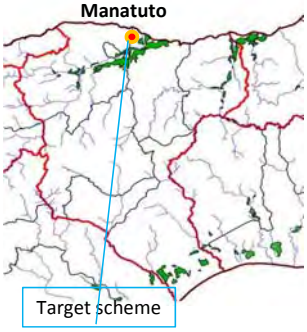
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : LACLO(DUMI) 3-a-5S

1	No.		5
2	Date of Survey		30/12/2013
3	Name of Irrigation scheme		LACLO(DUMI)
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		AITEAS
	Name of Aldeia		BI UAK
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=	827214
		Y=	9055086
	Grid reference in Irr. scheme except for above facility	X=	827193
		Y=	9055800
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)=	23.00
		Height(m)=	1.20
		Number of span =	4
		Width/1span (m)=	3.00
		Number of gates=	2
	/ If Canal→	Length of main	7,000
		Width(m) for typical	3.25
		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		972
9	Actual irrigation area (ha)		720
10	Original or planned irrigation area (ha)		660.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2002
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	✓
		Others	- Sedimentation on
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		2
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee: 5
			US$/ha as water fee
		by Rice	kg/HH as member ship fee: 20
			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	%: 25
			for years: 4
	a-6) What is	Gate operation	✓
		Gate maintenance	✓
		Canal Cleaning	✓
		Canal Rehabilitation	✓
		Others	- Selling river sand to
	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)	✓ 2014
		Not required to establish (Reason)	
		Already expired (Reason)	✓ - They had a WUA but staff did not do their duties.
		Others	
16	Opinion or request by interviewee	- Water users gorup will be established in 2014.	

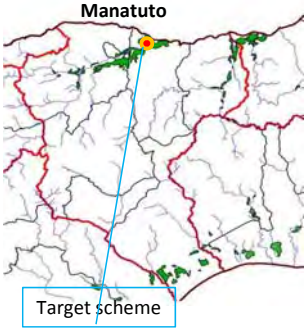
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 10,000
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 10,000 - Removing
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : HATUBELA 3-a-6S

1	No.		6
2	Date of Survey		3/1/2014
3	Name of Irrigation scheme		HATUBELA
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		ILIHEU
	Name of Aldeia		LIKORE
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=	827533
		Y=	9052065
	Grid reference in Irr. scheme except for above facility	X=	827680
		Y=	9052494
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)=	0.50
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.50
		Number of gates=	2
	/ 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		150
9	Actual irrigation area (ha)		421
10	Original or planned irrigation area (ha)		160.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2003
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

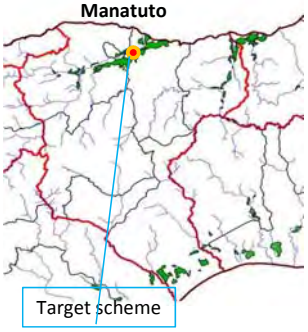
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE TITI 3-a-7TR

1	No.		7
2	Date of Survey		16/2/2014
3	Name of Irrigation scheme		WE TITI
4	Name of District		MANATUTO
	Name of Sub-district		LALEIA
5	Name of Suco		CAIRUI
	Name of Aldeia		HATU SILI
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=	186363
		Y=	9044727
	Grid reference in Irr. scheme except for above facility	X=	186356
		Y=	9045062
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)=	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	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

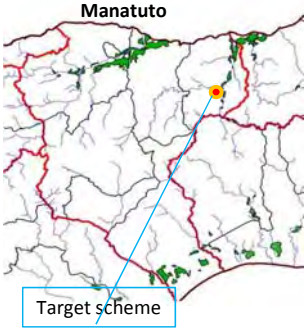
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : MANATUTO Irrigation scheme : WE MANU WEN 3-a-8TR

1	No.		8	
2	Date of Survey		12/2/2014	
3	Name of Irrigation scheme		WE MANU WEN	
4	Name of District		MANATUTO	
	Name of Sub-district		Barique	
5	Name of Suco		UMA BOCO	
	Name of Aldeia		FEHUR RIU	
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=	176939	
		Y=	9006125	
	Grid reference in Irr. scheme except for above facility	X=	177304	
		Y=	9005705	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake	✓	
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=	3,000.00	
		Height(m)=	2.00	
		Number of span =	1	
		Width/1span (m)=	0.90	
		Number of gates=	1	
	/ If Canal→	Length of main	100	
		Width(m) for typical	0.50	
		Height(m)=	0.50	
	/ If Pond or lake→	Diameter of Pond(m) =	30 x 6	
		Depth(m)=	2.00	
		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	
		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	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓	
		Wet Masonry		
		Earth/Soil	✓	
		Others		

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

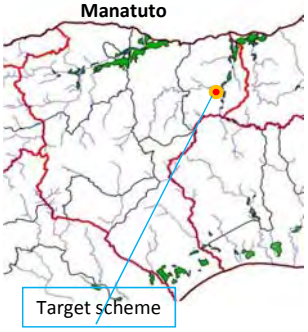
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE KA NUAK 3-a-9TR

1	No.		9
2	Date of Survey		11/2/2014
3	Name of Irrigation scheme		WE KA NUAK
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		WE MAU BADAK
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=	181203.57
		Y=	9010504.72
	Grid reference in Irr. scheme except for above facility	X=	180540
		Y=	9009129
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	8.00
		Height(m)=	3.00
	/ If Pond or lake→	Diameter of Pond(m) =	200 x 8
		Depth(m)=	3.00
		Number of Pond =	1
8	Number of house hold in service area		24
9	Actual irrigation area (ha)		86
10	Original or planned irrigation area (ha)		12.0
11	Original constructed year	Year's	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

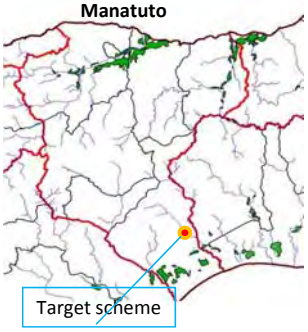
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE SALUN 2 3-a-10TR

1	No.		10
2	Date of Survey		12/2/2014
3	Name of Irrigation scheme		WE SALUN 2
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	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	179628
		Y=	9005177
	Grid reference in Irr. scheme except for above facility	X=	179649
		Y=	9004460
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.20
		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	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	We Salun 2 = 22ha Only / We Salun 1 = 300 ha(Not in the List)	

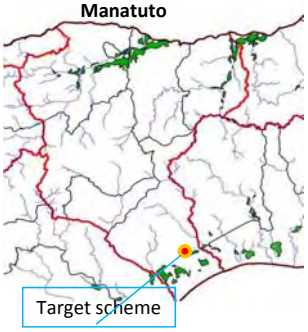
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : SUKAER 3-a-11TR

1	No.		11
2	Date of Survey		12/2/2014
3	Name of Irrigation scheme		SUKAER
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	
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	178283
		Y=	9005358
	Grid reference in Irr. scheme except for above facility	X=	178327
		Y=	9005349
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	3,000.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	2.50
		Number of gates=	1
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.20
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	100 x 8
		Depth(m)=	
		Number of Pond =	1
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		include"3"
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	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes
			No
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?		WUAs
			Traditional WG
			Others
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes
			No
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes
			No
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- No agricultural activities since 1999.	

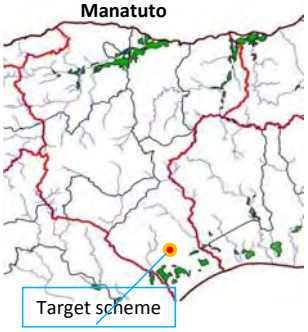
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : KETIMUN 3-a-12TR

1	No.		12
2	Date of Survey		12/2/2014
3	Name of Irrigation scheme		KETIMUN
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	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	176499
		Y=	9002501
	Grid reference in Irr. scheme except for above facility	X=	176610
		Y=	9002340
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)=	100.00
		Height(m)=	0.80
		Number of span =	1
		Width/1span (m)=	1.30
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.30
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	100 x 1.3
		Depth(m)=	
		Number of Pond =	1
8	Number of house hold in service area		0
9	Actual irrigation area (ha)		73
10	Original or planned irrigation area (ha)		0.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes
			No
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?		WUAs
			Traditional WG
			Others
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes
			No
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes
			No
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- No agricultural activities since 1999 because the political situation at that moment	

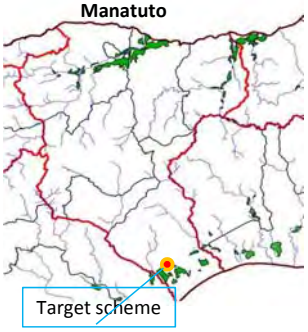
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : CACAE UMAN 3-a-13TR

1	No.		13	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		12/2/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		CACAE UMAN				A few in 5 years	
4	Name of District		MANATUTO				A few in 10 years	
	Name of Sub-district		Barique			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		AUBEON				Climate change (decrease of river flow	
	Name of Aldeia		BUBUR LARAN				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	181715				Damage to irrigation structure	
		Y=	9007498				Others	
	Grid reference in Irr. scheme except for above facility	X=	181813			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9007389					
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake	✓		a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =			a-3) Name of representative of WG or WUAs			
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	100.00				No	
		Height(m)=	0.50		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	8.00			by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	318		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.90		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =	100 x 8				for years	
		Depth(m)=	0.50			Decrease	%	
		Number of Pond =	1				for years	
8	Number of house hold in service area		80		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		200			Gate maintenance		
10	Original or planned irrigation area (ha)		200.0			Canal Cleaning		✓
11	Original constructed year	Year's	Before 1970			Canal Rehabilitation		
		Exact year				Others		
		Rehabilitated year	2013		a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water				The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water	✓			Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake	✓					
		Canal	✓					
		Others		16	Opinion or request by interviewee			
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry						
		Earth/Soil	✓					
		Others						

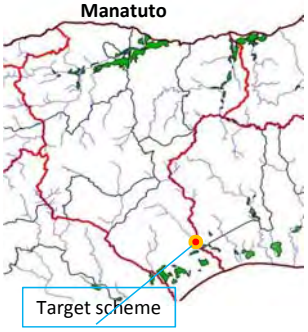
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE TANFUIK 3-a-14TR

1	No.		14
2	Date of Survey		12/2/2014
3	Name of Irrigation scheme		WE TANFUIK
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	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	181596
		Y=	9005238
	Grid reference in Irr. scheme except for above facility	X=	181522
		Y=	9005135
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)=	200.00
		Height(m)=	0.60
		Number of span =	1
		Width/1span (m)=	1.20
		Number of gates=	
	/ 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	✓
		River Water	
		Under Ground Water	✓
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

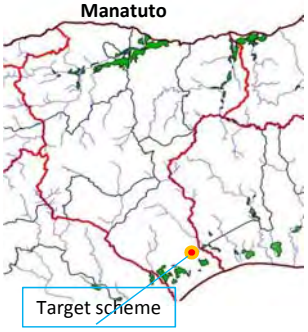
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : BILOU 3-a-15TR

1	No.		15
2	Date of Survey		18/12/2013
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	
	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	5,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		200
9	Actual irrigation area (ha)		26
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	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	- Concrete built is just 300m.

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- The scheme is destroyed by flood and flood made soil mount like small hill (1988). - Farmers move to Another Irrigation area (LAUT).	

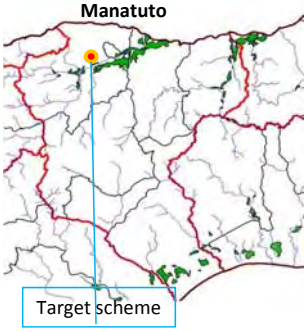
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : LOWAI(LAWAI) 3-a-16TR

1	No.		16
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	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	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	
		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)=	1.50
		Number of span =	
		Width/1span (m)=	8.00
		Number of gates=	
	/ 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) =	200.0
		Depth(m)=	8.00
		Number of Pond =	
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		18
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	1970s
		Exact year	1970
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- No agricultural activities since 2007 (7 years ago) due to shortage of tractors.		

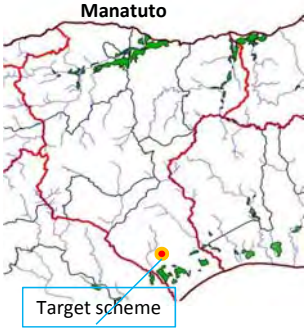
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE ULUN 3-a-17TR

1	No.		17
2	Date of Survey		11/2/2014
3	Name of Irrigation scheme		WE ULUN
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		FEITUK RIN
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=	175927
		Y=	9006090
	Grid reference in Irr. scheme except for above facility	X=	176013
		Y=	9006092
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)=	200.00
		Height(m)=	0.50
		Number of span =	1
		Width/1span (m)=	6.00
		Number of gates=	
	/ 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	✓
		River Water	
		Under Ground Water	
		Others	- Lake (for Keepig 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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

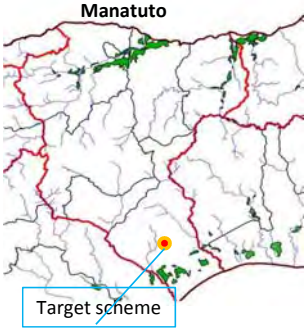
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : Laku wen 1 3-a-18TR

1	No.		18
2	Date of Survey		1/2/2014
3	Name of Irrigation scheme		Laku wen 1
4	Name of District		MANATUTO
	Name of Sub-district		Barique
5	Name of Suco		UMA BOCO
	Name of Aldeia		FEITUK RIN
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=	176808
		Y=	9004240
	Grid reference in Irr. scheme except for above facility	X=	176987
		Y=	9004083
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)=	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	1.30
		Height(m)=	1.30
	/ If Pond or lake→	Diameter of Pond(m) =	200.0
		Depth(m)=	8.00
		Number of Pond =	
8	Number of house hold in service area		30
9	Actual irrigation area (ha)		include"1"
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	1970s
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of 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 establishnent 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.	

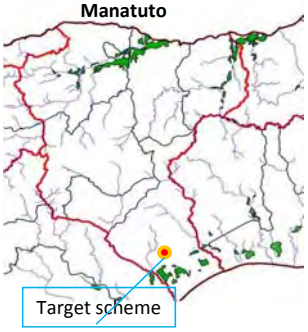
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

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

1	No.		19
2	Date of Survey		15/1/2014
3	Name of Irrigation scheme		WE LOLON WAI(META GADI)
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		LIFAU
	Name of Aldeia		LIFAU
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=	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	Year's	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

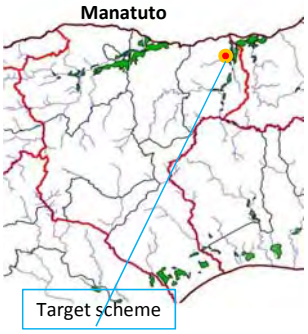
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost) ✓
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond 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 : Manatuto Irrigation scheme : KAKO'O 3-a-20TR

1	No.		20
2	Date of Survey		7/1/2014
3	Name of Irrigation scheme		KAKO'O
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		Hatularan
	Name of Aldeia		Ralan
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=	187144
		Y=	9048730
	Grid reference in Irr. scheme except for above facility	X=	187153
		Y=	9048823
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	1.20
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		100
9	Actual irrigation area (ha)		101
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

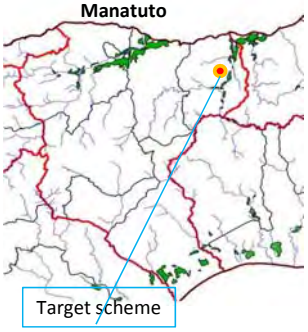
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme	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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Manatuto Irrigation scheme : COROHOCO 3-a-21TR

1	No.		21
2	Date of Survey		18/2/2014
3	Name of Irrigation scheme		COROHOCO
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		COROHOCO
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=	186000
		Y=	9039992
	Grid reference in Irr. scheme except for above facility	X=	186109
		Y=	9040033
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)=	100.00
		Height(m)=	0.50
		Number of span =	1
		Width/1span (m)=	1.60
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	0.70
		Height(m)=	0.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		20
9	Actual irrigation area (ha)		2
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

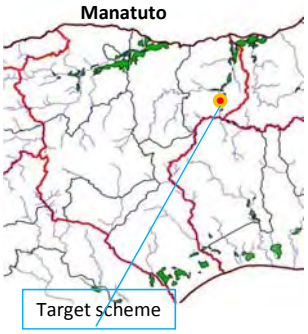
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Manatuto Irrigation scheme : MANULIHI LAI(RASPO) 3-a-22TR

1	No.		22
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	✓
		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	✓
		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)=	1.30
		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	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	✓
		The WG or WUAs is under establishment. (Expected establishnent year)	emes are constructed.
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Canal construction / maintenance have been supported by NGO/ AUSAID. Farmers received one sack of rice for digging the canal on 2013. '- Farmers would like to establish a water users group if irrigation schemes are constructed.	

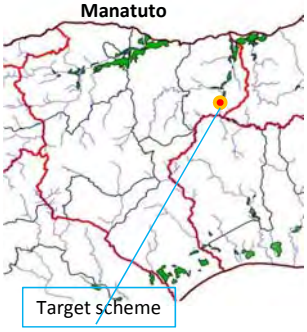
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manatuto Irrigation scheme : ILETI LE'EN 3-a-23TR

1	No.		23
2	Date of Survey		5/2/2014
3	Name of Irrigation scheme		ILETI LE'EN
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		BIABAE
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=	185954
		Y=	9042819
	Grid reference in Irr. scheme except for above facility	X=	186090
		Y=	9042774
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)=	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
9	Actual irrigation area (ha)		18
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- No acricultural activities from 2001 due to no structures.	

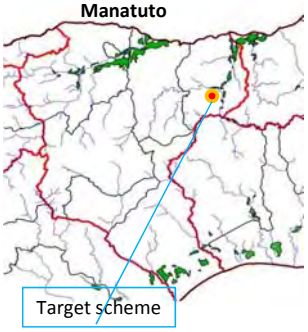
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manatuto Irrigation scheme : LIA BATE(GOBAOLI) 3-a-24TR

1	No.		24
2	Date of Survey		5/2/2014
3	Name of Irrigation scheme		LIA BATE(GOBAOLI)
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		HATUSILI
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=	185579
		Y=	9042092
	Grid reference in Irr. scheme except for above facility	X=	186024
		Y=	9042313
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)=	100.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	2.00
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.20
		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		40
9	Actual irrigation area (ha)		10
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of 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 rehabilitated.
		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	- Intake is washe out by flood in 2004. - No agricultural activities because paddy field was washed out by the flood last year. - Farmers move to another paddy field. '- Farmers would like to establish a water users group if irrigation schemes are rehabilitated.	

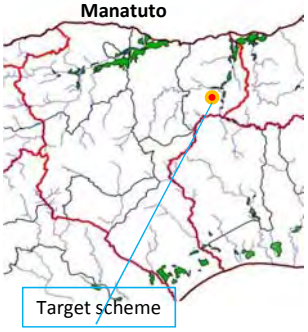
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Manatuto Irrigation scheme : BONAE 3-a-25TR

1	No.		25	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		7/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BONAE				A few in 5 years	
4	Name of District		Manatuto				A few in 10 years	
	Name of Sub-district		Laleia			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		CAIRUI				Climate change (decrease of river flow	
	Name of Aldeia		COROHOCO				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	183167				Damage to irrigation structure	✓
		Y=	9046894				Others	
	Grid reference in Irr. scheme except for above facility	X=	183583			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9047000			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Intake	✓				No	✓
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	3,000				No	✓
		Width(m) for typical	2.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		100			Gate maintenance		
9	Actual irrigation area (ha)		33			Canal Cleaning		
10	Original or planned irrigation area (ha)		50.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry						
		Earth/Soil	✓					
		Others						

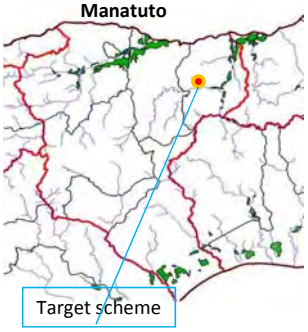
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●		●
Size of area (10 pts, more than 100ha) -		Total Points	**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 : Manatuto Irrigation scheme : SEGAT 3-a-26TR

1	No.		26
2	Date of Survey		13/1/2014
3	Name of Irrigation scheme		SEGAT
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		LIFAU
	Name of Aldeia		UMA RENTAU
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=	188105
		Y=	9054736
	Grid reference in Irr. scheme except for above facility	X=	188109
		Y=	9055092
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)=	100.00
		Height(m)=	2.00
		Number of span =	1
		Width/1span (m)=	1.00
		Number of gates=	1
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.50
		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		63
9	Actual irrigation area (ha)		79
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2005-2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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 rehabilitated.
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers would like to establish a water users group if irrigation schemes are rehabilitated.	

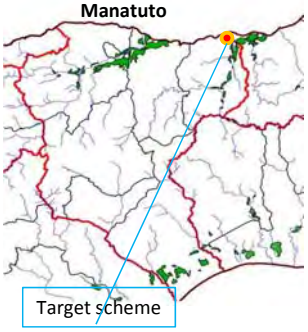
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Manatuto Irrigation scheme : WE MAMOUT(WE MOUT) 3-a-27TR

1	No.		27
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	187940.17
		Y=	9057165.98
	Grid reference in Irr. scheme except for above facility	X=	187845
		Y=	9057716
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	1.10
		Number of span =	1
		Width/1span (m)=	1.70
		Number of gates=	
	/ If Canal→	Length of main	2,000
		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		0
9	Actual irrigation area (ha)		40
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	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Scheme was washed out in 1974 by flood.	

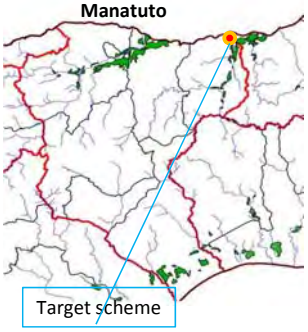
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost 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

District : Manatuto Irrigation scheme : HATOBU 3-a-28TR

1	No.		28	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		7/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		HATOBU				A few in 5 years	
4	Name of District		Manatuto				A few in 10 years	
	Name of Sub-district		Laleia			(Cause or Reason)	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				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	185649				Damage to irrigation structure	✓
		Y=	9046969				Others	
	Grid reference in Irr. scheme except for above facility	X=	185810			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9047224			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)=	5.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	2.00				US$/ha as water fee	
		Number of span =	3			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	1.00				kg/ha as water fee	
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	200				No	✓
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	2.00				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		150			Gate maintenance		
9	Actual irrigation area (ha)		42			Canal Cleaning		
10	Original or planned irrigation area (ha)		100.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year	2010-2013		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓					
		Wet Masonry						
		Earth/Soil	✓					
		Others						

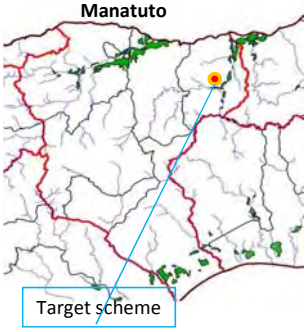
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manatuto Irrigation scheme : NAKARAN 3-a-29TR

1	No.		29
2	Date of Survey		16/2/2014
3	Name of Irrigation scheme		NAKARAN
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		COROHOCO
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=	185364
		Y=	9046519
	Grid reference in Irr. scheme except for above facility	X=	185613
		Y=	9046643
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)=	50.00
		Height(m)=	0.80
		Number of span =	1
		Width/1span (m)=	2.50
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.40
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		11
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

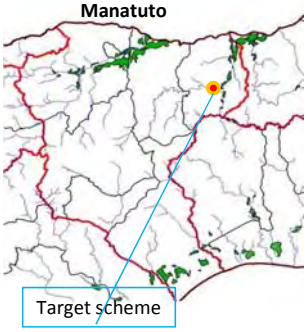
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manatuto Irrigation scheme : HATUMADA 3-a-30TR

1	No.		30
2	Date of Survey		18/2/2014
3	Name of Irrigation scheme		HATUMADA
4	Name of District		Manatuto
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		RAI MEAN
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=	186000
		Y=	9039992
	Grid reference in Irr. scheme except for above facility	X=	186109
		Y=	9040033
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		0
9	Actual irrigation area (ha)		2
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	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Scheme was washed out in 1975 by flood.	

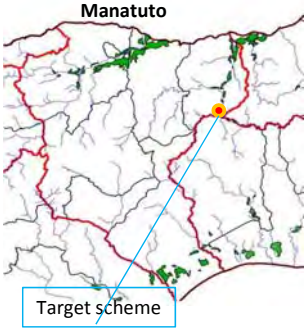
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance 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	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 : MANATUTO Irrigation scheme : BOBOSU'U 3-a-31TR

1	No.		31
2	Date of Survey		18/2/2014
3	Name of Irrigation scheme		BOBOSU'U
4	Name of District		MANATUTO
	Name of Sub-district		Laleia
5	Name of Suco		CAIRUI
	Name of Aldeia		BIABAE
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	
		Intake	✓
		Canal	✓
		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)=	1.10
		Number of span =	1
		Width/1span (m)=	1.50
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		11
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

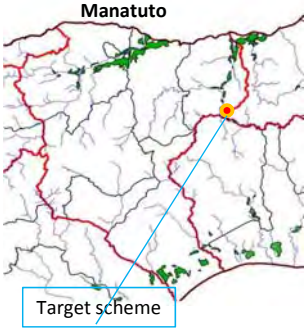
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : SANTO 3-a-32TR

1	No.		32
2	Date of Survey		16/1/2014
3	Name of Irrigation scheme		SANTO
4	Name of District		MANATUTO
	Name of Sub-district		Laleia
5	Name of Suco		LIFAU
	Name of Aldeia		UMA RENTAU
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 supplyed 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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	
		Gate maintenance	
		Canal Cleaning	
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Intake was destroyed by flood on 1973. At present, water is supplyed by 3-a-26TR SEGAT scheme.	

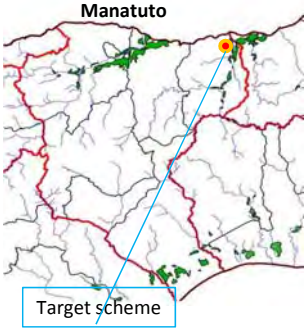
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : MAU RAIN 3-a-33TR

1	No.		33	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		14/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		MAU RAIN				A few in 5 years	
4	Name of District		MANATUTO				A few in 10 years	
	Name of Sub-district		Laleia			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		LIFAU				Climate change (decrease of river flow	
	Name of Aldeia		UMA RENTAU				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	187959				Damage to irrigation structure	✓
		Y=	9057245				Others	
	Grid reference in Irr. scheme except for above facility	X=	187941			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9057291			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Intake					No	✓
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	3,000				No	
		Width(m) for typical	1.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		150			Gate maintenance		
9	Actual irrigation area (ha)		include"27"			Canal Cleaning		
10	Original or planned irrigation area (ha)		100.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year	2003		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) 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						emes are constructed.
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee	- Scheme is destroyed in 1975 and there are no agricultural actibities for 30 years. - Farmers claim to the GOV. to make them do the agriculture activity again. - Farmers would like to establish a water users group if irrigation schemes are constructed.		
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

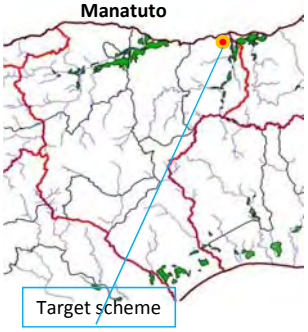
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : WE TIRAN 3-a-34TR

1	No.		34
2	Date of Survey		20/2/2014
3	Name of Irrigation scheme		WE TIRAN
4	Name of District		MANATUTO
	Name of Sub-district		Laleia
5	Name of Suco		HATURALAN
	Name of Aldeia		BEBORO
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=	187958.47
		Y=	9057197.69
	Grid reference in Irr. scheme except for above facility	X=	187538
		Y=	9058073
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	2.00
		Height(m)=	0.30
		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	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

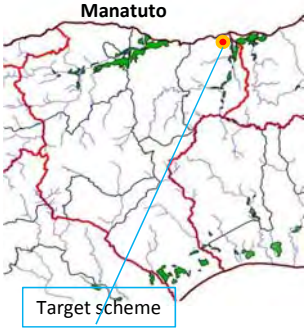
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		✓
		The WG or WUAs is under establishment. (Expected establishnent year)		emes are constructed.
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee	- Paddy field was washed out by flood in 1975. - No paddy field. Command area is now Teak forest. - 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	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 : MANATUTO Irrigation scheme : ALE'EN 3-a-35TR

1	No.		35
2	Date of Survey		6/2/2014
3	Name of Irrigation scheme		ALE'EN
4	Name of District		MANATUTO
	Name of Sub-district		Laleia
5	Name of Suco		HATULARAN
	Name of Aldeia		UMA IUKWE BORO
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=	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
9	Actual irrigation area (ha)		199
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	

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

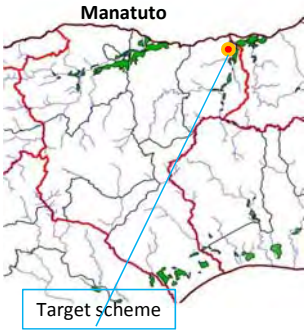
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	**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 : MANATUTO Irrigation scheme : WE NOREN UBUS 3-a-36TR

1	No.		36
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		WE NOREN UBUS
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		HATURALAN
	Name of Aldeia		UMA I'UK
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=	188164
		Y=	9051505
	Grid reference in Irr. scheme except for above facility	X=	188064
		Y=	9051784
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	1.20
		Height(m)=	1.50
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		50
9	Actual irrigation area (ha)		2
10	Original or planned irrigation area (ha)		60.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	✓
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of 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)	✓ ablish a group again .
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- 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.	

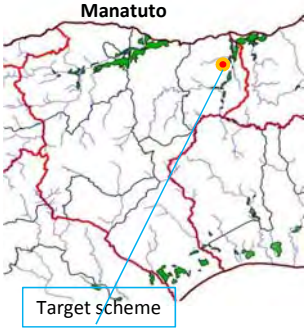
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : WE NOREN AHAK 3-a-37TR

1	No.		37
2	Date of Survey		5/2/2014
3	Name of Irrigation scheme		WE NOREN AHAK
4	Name of District		MANATUTO
	Name of Sub-district		LALEIA
5	Name of Suco		HATURALAN
	Name of Aldeia		UMA KLALANUMA IUK
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=	187771.72
		Y=	9052649.22
	Grid reference in Irr. scheme except for above facility	X=	187685
		Y=	9053356
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.40
		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		100
9	Actual irrigation area (ha)		38
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

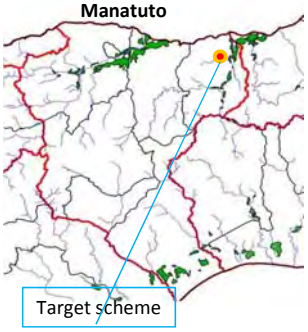
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : BOLUTO 3-a-38TR

1	No.		38	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		15/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BOLUTO				A few in 5 years	
4	Name of District		MANATUTO				A few in 10 years	
	Name of Sub-district		LALEIA			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Hatularan				Climate change (decrease of river flow	
	Name of Aldeia		Ralan				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	188257				Damage to irrigation structure	✓
		Y=	9052078				Others	
	Grid reference in Irr. scheme except for above facility	X=	188486			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9052902					
7	What kind of structure?	Weir				Others		
		Intake	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Canal	✓				No	
		Pond/Lake			a) In case of YES			
		Others			a-1) What kind of the WG or WUAs ?		WUAs	
	/ If Weir→	Length(m)=					Traditional WG	✓
		Height(m)=					Others	
		Width/1span (m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			1
		Number of span =			a-3) Name of representative of WG or WUAs			- Same as contact person
		Number of gates=			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=	3,000.00				No	✓
		Height(m)=	1.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =	1				US$/ha as water fee	
		Width/1span (m)=	0.90			by Rice	kg/HH as member ship fee	
		Number of gates=	0				kg/ha as water fee	
	/ 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	
		Width(m) for typical	1.50				No	
		Height(m)=	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		13		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		include"35"			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			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry						
		Earth/Soil	✓					
		Others						

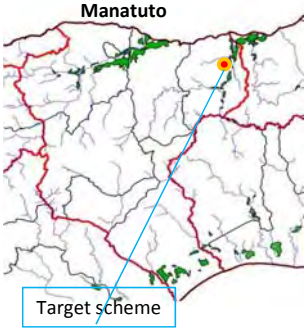
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	**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 : MANATUTO Irrigation scheme : MATO 3-a-39TR

1	No.		39
2	Date of Survey		20/1/2014
3	Name of Irrigation scheme		MATO
4	Name of District		MANATUTO
	Name of Sub-district		LALEIA
5	Name of Suco		LIFAU
	Name of Aldeia		UMA KLALAN
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=	188296.45
		Y=	9052205.64
	Grid reference in Irr. scheme except for above facility	X=	188982
		Y=	9055010
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)=	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 =	
8	Number of house hold in service area		100
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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

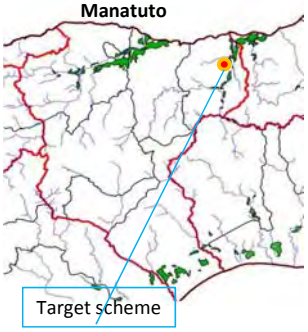
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : LALOSAN 3-a-40TR

1	No.		40
2	Date of Survey		20/12/2013
3	Name of Irrigation scheme		LALOSAN
4	Name of District		MANATUTO
	Name of Sub-district		LALEIA
5	Name of Suco		HATULARAN
	Name of Aldeia		RALAN
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=	188306.8
		Y=	9052149.25
	Grid reference in Irr. scheme except for above facility	X=	188585
		Y=	9053499
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	7.00
		Height(m)=	0.70
		Number of span =	1
		Width/1span (m)=	4.00
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		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		21
9	Actual irrigation area (ha)		include"35"
10	Original or planned irrigation area (ha)		24.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

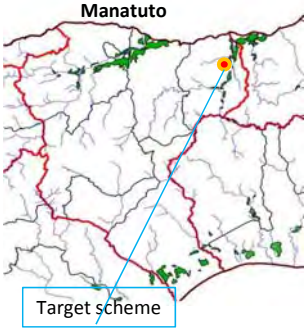
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : ANA KIAK 3-a-41TR

1	No.		41	
2	Date of Survey		4/2/2014	
3	Name of Irrigation scheme		ANA KIAK	
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	✓	
		Intake with gates		
		Pond/Lake/Spring		
		Weir		
		Others		
	Grid reference at intake/Pond/lake/spring/pump	X=	188092.51	
		Y=	9054812.15	
	Grid reference in Irr. scheme except for above facility	X=	188151	
		Y=	9055245	
7	What kind of structure?	Weir		
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	2,000	
		Width(m) for typical	1.00	
		Height(m)=	0.90	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		27	
9	Actual irrigation area (ha)		include"26"	
10	Original or planned irrigation area (ha)		50.0	
11	Original constructed year	Year's	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		

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

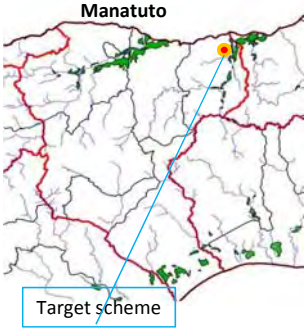
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : MABELEN 3-a-42TR

1	No.		42
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		MABELEN
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		LACO MESAC
	Name of Aldeia		NAKALEU
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	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	7.00
		Height(m)=	1.80
		Number of span =	1
		Width/1span (m)=	2.50
		Number of gates=	4
	/ If Canal→	Length of main	200
		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		100
9	Actual irrigation area (ha)		113
10	Original or planned irrigation area (ha)		350.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Cause or Reason)	Not functional of irrigation structure
			Climate change (decrease of river flow
			Others
		Flood Damage to irrigation scheme	
		(Frequency)	Every year
			A few in 5 years
			A few in 10 years
		(Contents of damage)	Wash out the land
			Damage to irrigation structure
			Others
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	
		No	✓
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	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)	✓ tablish a group again .
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers need guidances to establish a water users group again .	

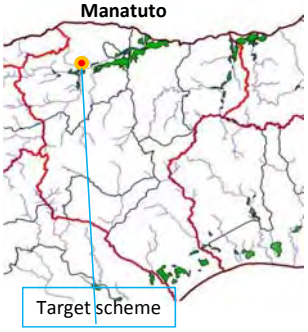
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : REBUTIKEO 3-a-43TR

1	No.		43
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		REBUTIKEO
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		UMA KADUAK
	Name of Aldeia		REBUTIKEO
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=	812413
		Y=	9049441
	Grid reference in Irr. scheme except for above facility	X=	812435
		Y=	9049517
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	1.39
		Height(m)=	0.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		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	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

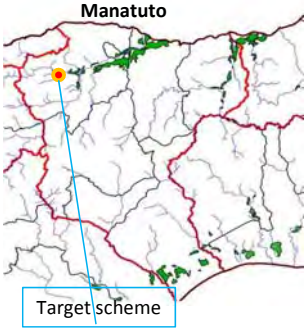
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : MALOROK(Wer Merak + Bereolou) 3-a-44TR

1	No.		44
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	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	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	
		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	4,000
		Width(m) for typical	1.20
		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		70
9	Actual irrigation area (ha)		51
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

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

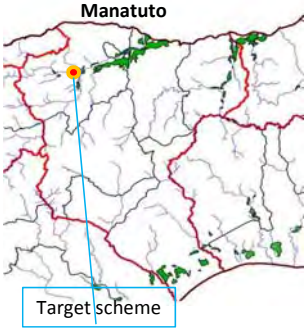
●Evaluation of Irrigation scheme

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

Size of area (10 pts, more than 100ha) -	Total Points	70
Evaluation of degree on immediate treatment		A/A50

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : KILAUN 3-a-45TR

1	No.		45
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		KILAUN
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		UMA NARUK
	Name of Aldeia		UMA NARUK
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=	817370
		Y=	9051271
	Grid reference in Irr. scheme except for above facility	X=	817612
		Y=	9051538
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	2.00
		Height(m)=	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

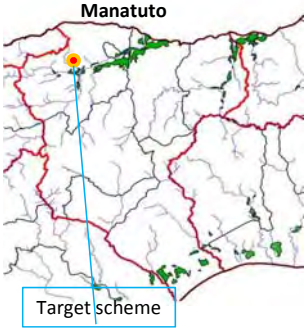
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : LAUTA 3-a-46TR

1	No.		46
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		LAUTA
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		UMA NARUK
	Name of Aldeia		UMA SURAI
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=	819931
		Y=	9050265
	Grid reference in Irr. scheme except for above facility	X=	820321
		Y=	9051062
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	4,000
		Width(m) for typical	2.00
		Height(m)=	0.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		100
9	Actual irrigation area (ha)		44
10	Original or planned irrigation area (ha)		120.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

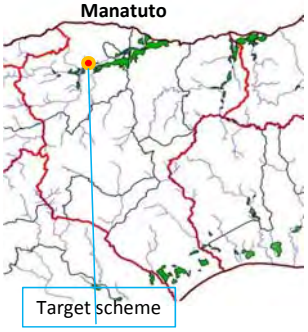
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : BISOROK 3-a-47TR

1	No.		47
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		BISOROK
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	
	Grid reference at intake/Pond/lake/spring/pump	X=	817268
		Y=	9050042
	Grid reference in Irr. scheme except for above facility	X=	817661
		Y=	9050284
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	3.00
		Height(m)=	0.50
	/ 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)		55
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

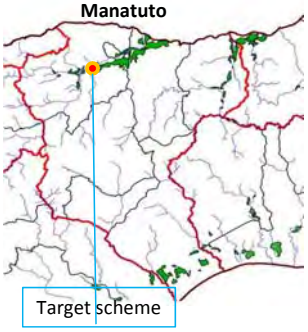
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : MANATUTO Irrigation scheme : IBABAK RALAN 3-a-48TR

1	No.		48
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		IBABAK RALAN
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		ILIHEU
	Name of Aldeia		I'UN
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=	824200
		Y=	9053790
	Grid reference in Irr. scheme except for above facility	X=	824405
		Y=	9053887
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	0.80
		Number of gates=	0
	/ If Canal→	Length of main	2,000
		Width(m) for typical	2.50
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		200
9	Actual irrigation area (ha)		121
10	Original or planned irrigation area (ha)		150.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	1992
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

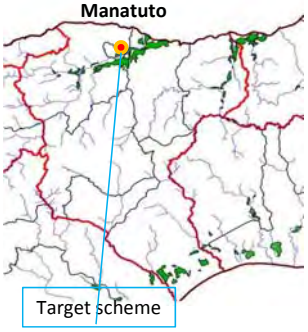
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : BUBRAMOS 3-a-49TR

1	No.		49
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		BUBRAMOS
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	
	Grid reference at intake/Pond/lake/spring/pump	X=	814695
		Y=	9050805
	Grid reference in Irr. scheme except for above facility	X=	815284
		Y=	9051087
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	1.10
		Height(m)=	0.30
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		6
9	Actual irrigation area (ha)		6
10	Original or planned irrigation area (ha)		15.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	✓
		Others	
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)	✓ to establish a group if new irrigation schemes are constructed.
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- Farmers do second cropping but it depends on the weather condition. '- Farmers have plan to establish a water users group if new irrigation schemes are constructed.	

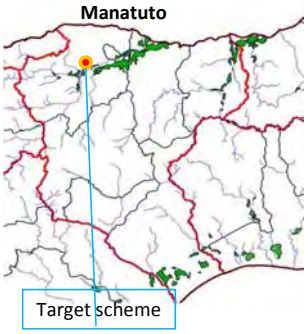
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : 0 Irrigation scheme : Bereolok 3-a-50TR

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

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

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			
	a-3) Name of representative of WG or WUAs			
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.		The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
			The WG or WUAs is under establishment. (Expected establishnent year)	
			Not required to establish (Reason)	
			Already expired (Reason)	
			Others	
16	Opinion or request by interviewee		* 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 : LAWERI 3-a-51TR

1	No.		51
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		LAWERI
4	Name of District		Manatuto
	Name of Sub-district		Laclo
5	Name of Suco		LACU MESAC
	Name of Aldeia		TAHAGAMU
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=	816507
		Y=	9050839
	Grid reference in Irr. scheme except for above facility	X=	816858
		Y=	9051162
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)=	0.90
		Height(m)=	1.20
		Number of span =	2
		Width/1span (m)=	1.00
		Number of gates=	2
	/ If Canal→	Length of main	150
		Width(m) for typical	0.70
		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		20
9	Actual irrigation area (ha)		15
10	Original or planned irrigation area (ha)		25.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2011
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

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

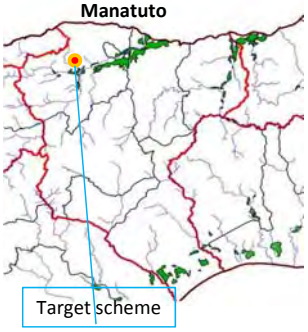
●Evaluation of Irrigation scheme

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 : MANATUTO Irrigation scheme : HATUKONAN(Lai Teri) 3-a-52TR

1	No.		52
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		HATUKONAN(Lai Teri)
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		LACO MESAK
	Name of Aldeia		HATUKONAN
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=	811312
		Y=	9051291
	Grid reference in Irr. scheme except for above facility	X=	811798
		Y=	9050682
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	2.70
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		40
9	Actual irrigation area (ha)		15
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	

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

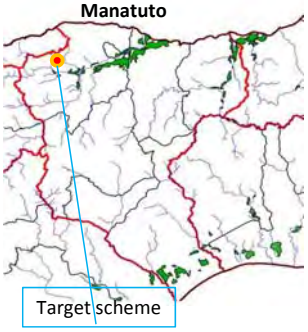
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal ✓
		Broken ✓
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details) ✓
		Obstruction of sand/stone (sedimentation) ✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond 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 : MANATUTO Irrigation scheme : ARADU 3-a-53TR

1	No.		53	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		16/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		ARADU				A few in 5 years	
4	Name of District		MANATUTO				A few in 10 years	
	Name of Sub-district		LACLO			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LACO MESAC				Climate change (decrease of river flow	✓
	Name of Aldeia		TAHAGAMU				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	815901				Damage to irrigation structure	
		Y=	9050522				Others	
	Grid reference in Irr. scheme except for above facility	X=	815962			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9050492			Others		- The Pond doesn't
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	
		Intake					No	✓
		Canal	✓		a) In case of YES			
		Pond/Lake	✓		a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	3,000				No	✓
		Width(m) for typical	4.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		15			Gate maintenance		
9	Actual irrigation area (ha)		80			Canal Cleaning		
10	Original or planned irrigation area (ha)		50.0			Canal Rehabilitation		
11	Original constructed year	Year's	Before 1970			Others		
		Exact year			a-7) How often are the meeting held in a year?			
		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	✓					emes are constructed.
		River Water				The WG or WUAs is under establishment. (Expected establishment year)		
		Under Ground Water	✓			Not required to establish (Reason)		
		Others	- Pond			Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden		16	Opinion or request by interviewee	- Farmers would like to establish a water users group if irrigation schemes are constructed.		
		Free intake						
		Intake with Gates						
		Pond/Lake	✓					
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

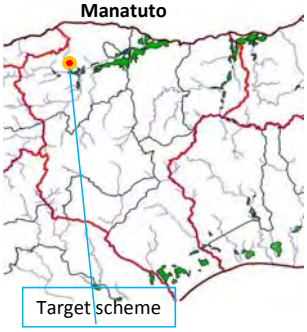
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : Laclo 3-a-54TR

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

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

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : PONTE OKOSSAU 3-a-55TR

1	No.		55
2	Date of Survey		13/12/2013
3	Name of Irrigation scheme		PONTE OKOSSAU
4	Name of District		MANATUTO
	Name of Sub-district		MANATUTO
5	Name of Suco		SAU
	Name of Aldeia		SAU
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=	169977
		Y=	9057269
	Grid reference in Irr. scheme except for above facility	X=	170035
		Y=	9057391
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)=	200.00
		Height(m)=	1.00
		Number of span =	1
		Width/1span (m)=	1.20
		Number of gates=	1
	/ If Canal→	Length of main	2,000
		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		70
9	Actual irrigation area (ha)		120
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2004
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	✓
		Others	- The location of
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	✓
		Damage to irrigation structure	✓
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	✓
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		
	a-3) Name of representative of WG or WUAs		
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes	✓
		No	
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee
			US$/ha as water fee
		by Rice	kg/HH as member ship fee 20
			kg/ha as water fee
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
		No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%
			for years
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	✓
		Others	
	a-7) How often are the meeting held in a year?		
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	✓ - No motivation
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee	- There are no water users groups due to no motivation. - The location of facility is much higher than paddy field.	

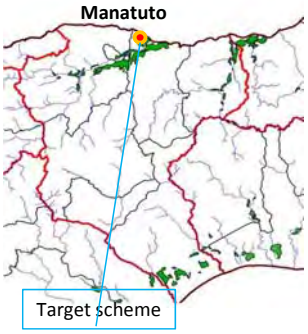
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	✓ - Water can not reach to the gate.
		Obstruction of sand/stone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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : MANATUTO Irrigation scheme : LABAUN WAI 3-a-56TR

1	No.		56
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		LABAUN WAI
4	Name of District		MANATUTO
	Name of Sub-district		LACLO
5	Name of Suco		LACO MESAC
	Name of Aldeia		NARALEU
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=	821297
		Y=	9052183
	Grid reference in Irr. scheme except for above facility	X=	821529
		Y=	9052137
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)=	286.00
		Height(m)=	1.00
		Number of span =	2
		Width/1span (m)=	1.00
		Number of gates=	1
	/ If Canal→	Length of main	5,000
		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		50
9	Actual irrigation area (ha)		723
10	Original or planned irrigation area (ha)		450.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	✓
		Others	- Water is supplyed from MABELEN
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

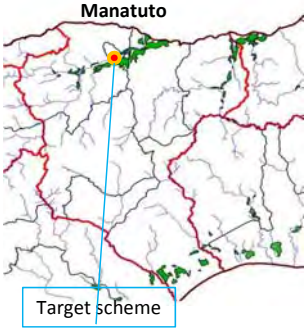
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

11. Manufahi

District : Manufahi Irrigation scheme : CARA-ULUN 2-a-1TC

1	No.		1	
2	Date of Survey		17/12/2013	
3	Name of Irrigation scheme		CARA-ULUN	
4	Name of District		Manufahi	
	Name of Sub-district		Same	
5	Name of Suco		BETANO	
	Name of Aldeia		LEOAI	
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=	794416	
		Y=	8990693	
	Grid reference in Irr. scheme except for above facility	X=	795223	
		Y=	8988085	
7	What kind of structure?	Weir	✓	
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	2,226	
		Width(m) for typical	2.60	
		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		1,500	
9	Actual irrigation area (ha)		850	
10	Original or planned irrigation area (ha)		2,196.0	
11	Original constructed year	Year's	2010s	
		Exact year		
		Rehabilitated year	2013	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal		
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

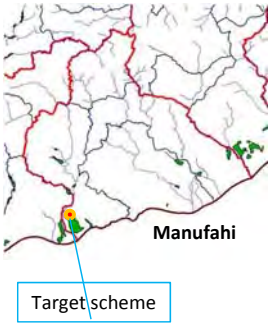
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	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 : Manufahi Irrigation scheme : WELALA 2-a-2S

1	No.		2
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		WELALA
4	Name of District		Manufahi
	Name of Sub-district		Same
5	Name of Suco		LETEFOHO
	Name of Aldeia		KOTALALA
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=	791652
		Y=	9004661
	Grid reference in Irr. scheme except for above facility	X=	791855
		Y=	9004605
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	1.00
		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		60
9	Actual irrigation area (ha)		17
10	Original or planned irrigation area (ha)		164.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

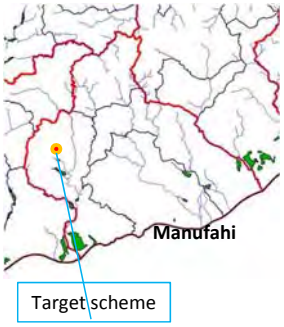
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	50
Evaluation of degree on immediate treatment			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 : Manufahi Irrigation scheme : COLOKO 2-a-3S

1	No.		3	
2	Date of Survey		17/12/2013	
3	Name of Irrigation scheme		COLOKO	
4	Name of District		Manufahi	
	Name of Sub-district		Same	
5	Name of Suco		LEKFOHO	
	Name of Aldeia		REALAU	
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=	790605	
		Y=	9002648	
	Grid reference in Irr. scheme except for above facility	X=	791042	
		Y=	9002597	
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)=	0.80	
		Number of span =		
		Width/1span (m)=	1.00	
		Number of gates=	1	
	/ If Canal→	Length of main	1,200	
		Width(m) for typical	0.40	
		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		1,500	
9	Actual irrigation area (ha)		122	
10	Original or planned irrigation area (ha)		2,196.0	
11	Original constructed year	Year's	2010s	
		Exact year		
		Rehabilitated year	2013	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

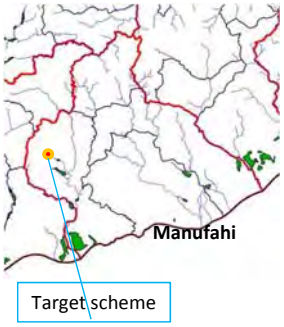
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	**50**
Evaluation of degree on immediate treatment			**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 : Manufahi Irrigation scheme : SAHEN 2-a-4S

1	No.		4	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
2	Date of Survey		18/12/2013			(Frequency) Every year	✓
3	Name of Irrigation scheme		SAHEN			A few in 5 years	
4	Name of District		Manufahi			A few in 10 years	
	Name of Sub-district		Fatuberlio			(Cause or Reason) Not functional of irrigation structure	✓
5	Name of Suco		CLOCUC			Climate change (decrease of river flow	✓
	Name of Aldeia		TIRO			Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme	✓
		Intake with gates				(Frequency) Every year	
		Pond/Lake/Spring	✓			A few in 5 years	✓
		Weir				A few in 10 years	
		Others				(Contents of damage) Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	170892			Damage to irrigation structure	✓
		Y=	9004819			Others	
	Grid reference in Irr. scheme except for above facility	X=	171444			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Y=	9004413			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$/HH as member ship fee
		Height(m)=	1.40				US$/ha as water fee
		Number of span =	1			by Rice	kg/HH as member ship fee
		Width/1span (m)=	1.00				kg/ha as water fee
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes	
	/ If Canal→	Length of main	1,500			No	
		Width(m) for typical	1.20		/ if respondent select above "☑ Yes", How change of fee?	Increase	%
		Height(m)=	1.00				for years
	/ If Pond or lake→	Diameter of Pond(m) =	30.0			Decrease	%
		Depth(m)=	1.60				for years
		Number of Pond =	1		a-6) What is	Gate operation	
8	Number of house hold in service area		500			Gate maintenance	
9	Actual irrigation area (ha)		166			Canal Cleaning	✓
10	Original or planned irrigation area (ha)		300.0			Canal Rehabilitation	
11	Original constructed year	Year's	2000s			Others	
		Exact year			a-7) How often are the meeting held in a year?		
		Rehabilitated year					
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)	
		Under Ground Water				Not required to establish (Reason)	
		Others				Already expired (Reason)	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others	
		Weir (Wooden					
		Free intake	✓				
		Intake with Gates					
		Pond/Lake					
		Canal	✓	16	Opinion or request by interviewee		
		Others					
	If respondent select above "☑ Canal" , show the type of canal	Concrete					
		Wet Masonry	✓				
		Earth/Soil	✓				
		Others					

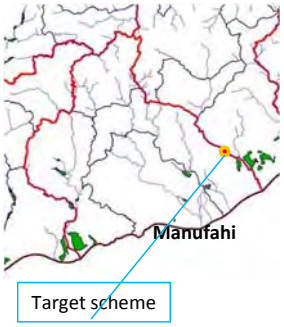
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	**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 : Manufahi Irrigation scheme : AKADIRUHUN 2-a-5S

1	No.		5
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		AKADIRUHUN
4	Name of District		Manufahi
	Name of Sub-district		Same
5	Name of Suco		LEKFOHO
	Name of Aldeia		REALAU
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=	790605
		Y=	9002648
	Grid reference in Irr. scheme except for above facility	X=	791042
		Y=	9002597
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)=	0.80
		Number of span =	
		Width/1span (m)=	1.00
		Number of gates=	1
	/ If Canal→	Length of main	1,200
		Width(m) for typical	0.40
		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		1,500
9	Actual irrigation area (ha)		include "3"
10	Original or planned irrigation area (ha)		2,196.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

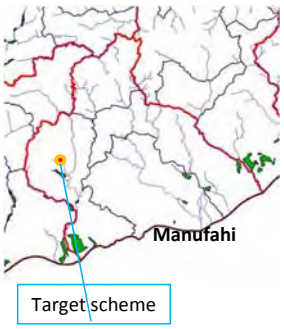
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	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 : Manufahi Irrigation scheme : KAKEU LULIK 2-a-6TR

1	No.		6
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	

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

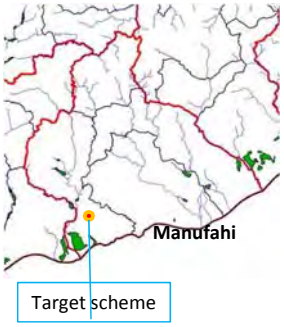
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manufahi Irrigation scheme : BESUSU 2-a-7TR

1	No.		7
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	

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

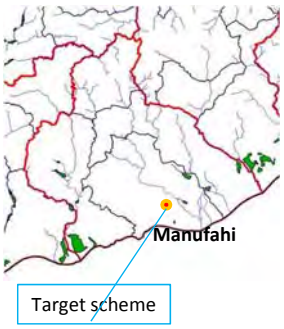
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha) -		Total Points	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
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		LAFAEK HASAN
4	Name of District		Manufahi
	Name of Sub-district		Alas
5	Name of Suco		DOFIK
	Name of Aldeia		LAFAEK HASAN
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=	818088
		Y=	8996448
	Grid reference in Irr. scheme except for above facility	X=	818319
		Y=	8996257
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	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		97
9	Actual irrigation area (ha)		35
10	Original or planned irrigation area (ha)		500.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

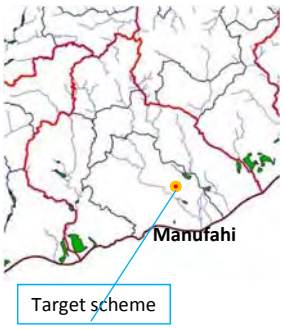
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manufahi Irrigation scheme : SENT BOOT 2-a-9TR

1	No.		9
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		SENT BOOT
4	Name of District		Manufahi
	Name of Sub-district		Same
5	Name of Suco		DAISNA
	Name of Aldeia		LOTI
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=	796018
		Y=	8997864
	Grid reference in Irr. scheme except for above facility	X=	795858
		Y=	8996761
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	0.35
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		250
9	Actual irrigation area (ha)		25
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	2000s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

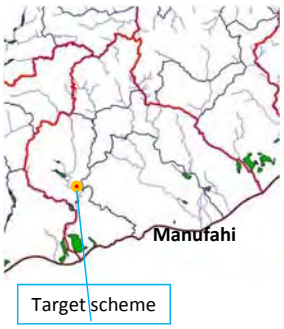
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	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 : Manufahi Irrigation scheme : WELOLO 2-a-10TR

1	No.		10
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		WELOLO
4	Name of District		Manufahi
	Name of Sub-district		Alas
5	Name of Suco		WEBEREK
	Name of Aldeia		WELOLO
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=	816832
		Y=	9003794
	Grid reference in Irr. scheme except for above facility	X=	817500
		Y=	9003229
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	1.50
		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		125
9	Actual irrigation area (ha)		140
10	Original or planned irrigation area (ha)		300.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

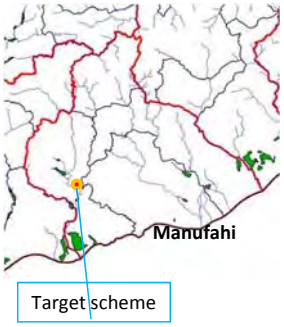
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Manufahi Irrigation scheme : WELOLO 2-a-11TR

1	No.		11
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		WELOLO
4	Name of District		Manufahi
	Name of Sub-district		Alas
5	Name of Suco		WEBEREK
	Name of Aldeia		WELOLO
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=	816832
		Y=	9003794
	Grid reference in Irr. scheme except for above facility	X=	817500
		Y=	9003229
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	1.50
		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		125
9	Actual irrigation area (ha)		140
10	Original or planned irrigation area (ha)		300.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

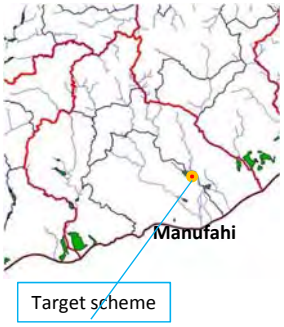
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	**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 : Manufahi Irrigation scheme : CLERE 2-a-12TR

1	No.		12	
2	Date of Survey		17/12/2013	
3	Name of Irrigation scheme		CLERE	
4	Name of District		Manufahi	
	Name of Sub-district		Fatuberlio	
5	Name of Suco		CAICASA	
	Name of Aldeia		CAICASA	
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=	823672	
		Y=	8998654	
	Grid reference in Irr. scheme except for above facility	X=	824010	
		Y=	8998587	
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)=	1.00	
		Number of span =	1	
		Width/1span (m)=	2.00	
		Number of gates=		
	/ If Canal→	Length of main	850	
		Width(m) for typical	0.80	
		Height(m)=	0.60	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		200	
9	Actual irrigation area (ha)		73	
10	Original or planned irrigation area (ha)		200.0	
11	Original constructed year	Year's	2010s	
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

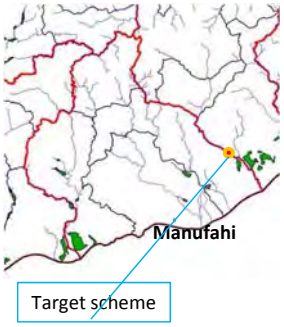
13	What's kind of problem for the structure or facility, and reason of problem ?	
		Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

12. Viqueque

District : Viqueque Irrigation scheme : KOMOLI 5-a-1TC

1	No.		1
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		KOMOLI
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		WANIUMA
	Name of Aldeia		ALAOLI
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=	243704.32
		Y=	9032389.58
	Grid reference in Irr. scheme except for above facility	X=	243089
		Y=	9030860
7	What kind of structure?	Weir	✓
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	10.0
		Height(m)=	3.00
		Width/1span (m)=	12.00
		Number of span =	1
		Number of gates=	2
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,000
		Width(m) for typical	0.60
		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		404
9	Actual irrigation area (ha)		347
10	Original or planned irrigation area (ha)		300.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

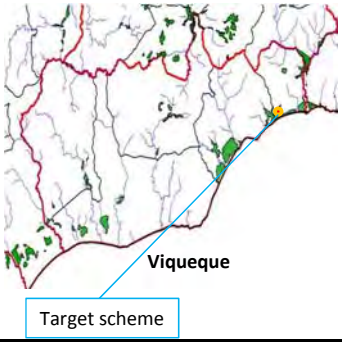
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : UATOLARI I 5-a-2TC

1	No.		2	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		11/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		UATOLARI I				A few in 5 years	✓
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Watlari			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		MATAHOI				Climate change (decrease of river flow	
	Name of Aldeia		WANIUMA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir	✓				A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	228266				Damage to irrigation structure	✓
		Y=	9023689				Others	
	Grid reference in Irr. scheme except for above facility	X=	230128			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9025015			Others		
7	What kind of structure?	Weir	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	✓
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	2,500				No	
		Width(m) for typical	1.50		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.25				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		112			Gate maintenance		
9	Actual irrigation area (ha)		1,030			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		86.2			Canal Rehabilitation		
11	Original constructed year	Year's	1990s			Others		
		Exact year	1992		a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden	✓					
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

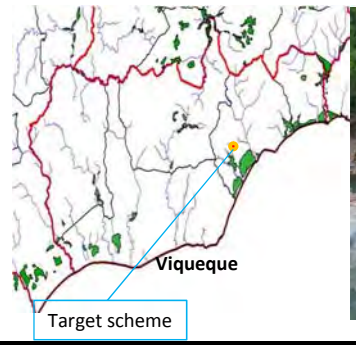
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : UATOLARI II 5-a-3TC

1	No.		3	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		11/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		UATOLARI II				A few in 5 years	✓
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Watlari			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		MATAHOI				Climate change (decrease of river flow	
	Name of Aldeia		AIELE				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir	✓				A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	228266				Damage to irrigation structure	
		Y=	9023689				Others	
	Grid reference in Irr. scheme except for above facility	X=	229181			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9023706			Others		
7	What kind of structure?	Weir	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=						
	/ If Canal→	Length of main	1.500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.70				No	
		Height(m)=	0.80		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		65		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		Include"2"			Gate maintenance		
10	Original or planned irrigation area (ha)		51.0			Canal Cleaning		✓
11	Original constructed year	Year's	1990s			Canal Rehabilitation		
		Exact year	1992			Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden	✓					
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

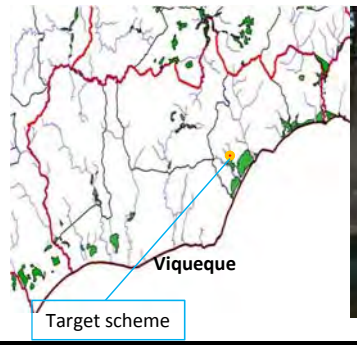
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : UATOLARI III 5-a-4TC

1	No.		4	
2	Date of Survey		11/1/2014	
3	Name of Irrigation scheme		UATOLARI III	
4	Name of District		Viqueque	
	Name of Sub-district		Uatulari	
5	Name of Suco		AFALOICAIULTAME	
	Name of Aldeia		NADALASEPULUH	
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=	231405	
		Y=	9026802	
	Grid reference in Irr. scheme except for above facility	X=	231107	
		Y=	9025789	
7	What kind of structure?	Weir	✓	
		Intake	✓	
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=	27.0	
		Height(m)=	3.50	
		Width/1span (m)=	72.00	
		Number of span =	1	
		Number of gates=	4	
	/ If Intake→	Length(m)=	10.00	
		Height(m)=	4.50	
		Number of span =	1	
		Width/1span (m)=	2.50	
		Number of gates=	2	
	/ If Canal→	Length of main	3,600	
		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		6,900	
9	Actual irrigation area (ha)		Include"2"	
10	Original or planned irrigation area (ha)		1,400.0	
11	Original constructed year	Year's	2010s	
		Exact year		
		Rehabilitated year	2011	
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓	
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

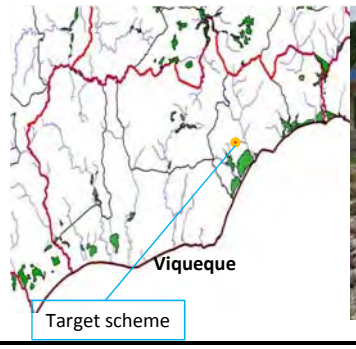
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WAI EULAI 5-a-5TC

1	No.		5
2	Date of Survey		11/1/2014
3	Name of Irrigation scheme		WAI EULAI
4	Name of District		Viqueque
	Name of Sub-district		Ossu
5	Name of Suco		OSSU DE CIMA
	Name of Aldeia		BELAS
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=	211734
		Y=	9032517
	Grid reference in Irr. scheme except for above facility	X=	212154
		Y=	9032523
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,000
		Width(m) for typical	0.85
		Height(m)=	0.90
	/ If Pond or lake→	Diameter of Pond(m) =	60.0
		Depth(m)=	15.00
		Number of Pond =	1
8	Number of house hold in service area		32
9	Actual irrigation area (ha)		82
10	Original or planned irrigation area (ha)		380.0
11	Original constructed year	Year's	1980s
		Exact year	1988
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

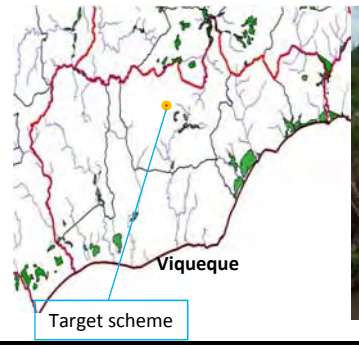
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : BAIDUBU 5-a-6S

1	No.		6
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		BAIDUBU
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		IRABIN DETAZO
	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		1
	a-3) Name of representative of WG or WUAs		- MORZARLO SANTOS DE CARRLO
	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?		3
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

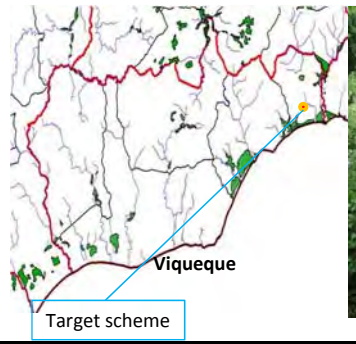
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : SAKETO 5-a-7TC

1	No.		7	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		11/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		SAKETO				A few in 5 years	✓
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Watlari			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		MATAHOI				Climate change (decrease of river flow	
	Name of Aldeia		WANIUMA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir	✓				A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	228266				Damage to irrigation structure	✓
		Y=	9023689				Others	
	Grid reference in Irr. scheme except for above facility	X=	227918			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9020269			Others		
7	What kind of structure?	Weir	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	✓
		Others					Traditional WG	
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=						
	/ If Canal→	Length of main	2,500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.50				No	
		Height(m)=	1.25		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		112		a-6) What is	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		
		Exact year	1992			Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden	✓					
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

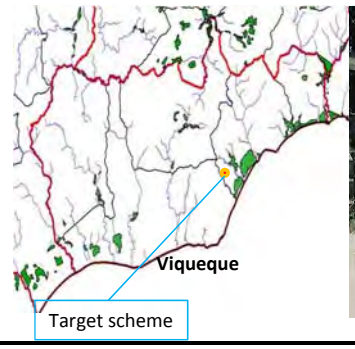
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : BIKALIU 5-a-8S

1	No.		8	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		13/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BIKALIU				A few in 5 years	
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Ossu			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		UAGEIA				Climate change (decrease of river flow	
	Name of Aldeia		DOLIBUTI				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir	✓				A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	215890				Damage to irrigation structure	✓
		Y=	9030669				Others	
	Grid reference in Irr. scheme except for above facility	X=	215825			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9030615			Others		
7	What kind of structure?	Weir	✓	15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=	10.0				Others	
		Height(m)=	1.50		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=	60.00		a-3) Name of representative of WG or WUAs			
		Number of span =	1		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=	10.00		/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=	0.70				US$/ha as water fee	
		Number of span =	1			by Rice	kg/HH as member ship fee	
		Width/1span (m)=	0.90				kg/ha as water fee	
		Number of gates=	1		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1.200				No	
		Width(m) for typical	0.45		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		396			Gate maintenance		
9	Actual irrigation area (ha)		50			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		109.0			Canal Rehabilitation		
11	Original constructed year	Year's	2000s			Others		
		Exact year			a-7) How often are the meeting held in a year?			2
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden	✓					
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

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

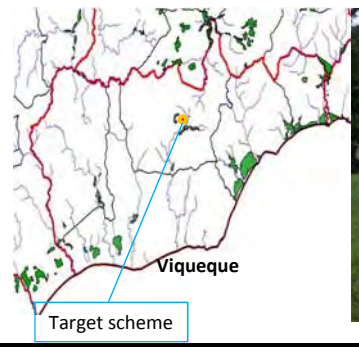
●Evaluation of Irrigation scheme

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

Size of area (10 pts, more than 100ha)	Total Points	90
-		
Evaluation of degree on immediate treatment		A/A50

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WETODO 5-a-9S

1	No.		9
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		WETODO
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		KUMALOR
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=	198373
		Y=	9010923
	Grid reference in Irr. scheme except for above facility	X=	196394
		Y=	9010888
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	10.00
		Height(m)=	2.00
		Number of span =	1
		Width/1span (m)=	6.00
		Number of gates=	1
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.10
		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		42
9	Actual irrigation area (ha)		412
10	Original or planned irrigation area (ha)		425.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	2013
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of 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		- EVARISTO AMARAL
	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?		3
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

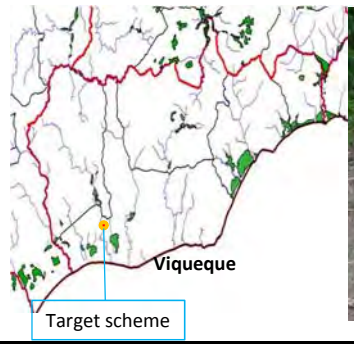
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : CAELARAN 5-a-10S

1	No.		10
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		CAELARAN
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		BAHALARAWA'IN
	Name of Aldeia		WELALEO
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=	198373
		Y=	9010923
	Grid reference in Irr. scheme except for above facility	X=	196394
		Y=	9010888
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)=	1.20
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		150
9	Actual irrigation area (ha)		include"9"
10	Original or planned irrigation area (ha)		106.0
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	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			- JACINTO VIANA
	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	%	10
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

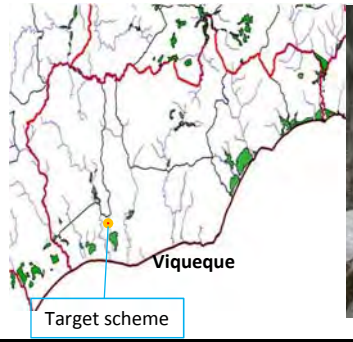
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : HAETALAS 5-a-11TR

1	No.		11
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		HAETALAS
4	Name of District		Viqueque
	Name of Sub-district		Lacluta
5	Name of Suco		DILOR
	Name of Aldeia		AIDAK LARAN
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	193007.19
		Y=	9018148.15
	Grid reference in Irr. scheme except for above facility	X=	195131
		Y=	9018485
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	3.00
		Number of gates=	1
	/ If Canal→	Length of main	457
		Width(m) for typical	1.00
		Height(m)=	1.25
	/ 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)		60
10	Original or planned irrigation area (ha)		127.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

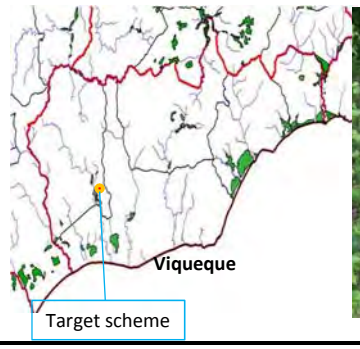
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WE CLOUK 5-a-12TR

1	No.		12
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		WE CLOUK
4	Name of District		Viqueque
	Name of Sub-district		Lacluta
5	Name of Suco		DILOR
	Name of Aldeia		RADIUMA
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=	192588.73
		Y=	9019117.74
	Grid reference in Irr. scheme except for above facility	X=	192540
		Y=	9018841
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	800
		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		228
9	Actual irrigation area (ha)		103
10	Original or planned irrigation area (ha)		160.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

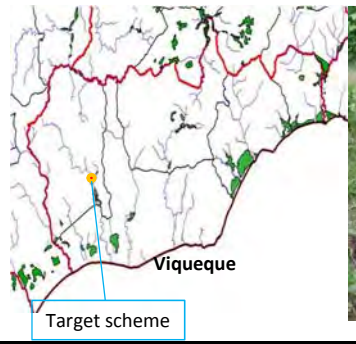
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : AETARA 5-a-13TR

1	No.		13
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		AETARA
4	Name of District		Viqueque
	Name of Sub-district		Lacluta
5	Name of Suco		AHAI
	Name of Aldeia		TALI UAN
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	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	3,500
		Width(m) for typical	0.90
		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		97
9	Actual irrigation area (ha)		61
10	Original or planned irrigation area (ha)		200.0
11	Original constructed year	Year's	2010s
		Exact year	2011
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

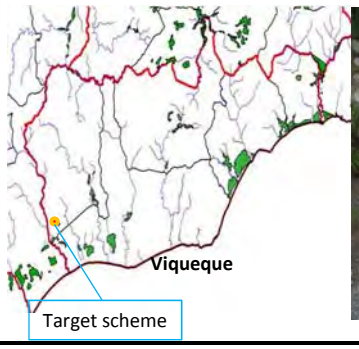
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	50
Evaluation of degree on immediate treatment			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	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		12/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		TAHUKMER				A few in 5 years	
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Lacluta			(Cause or Reason)	Not functional of irrigation structure	✓
5	Name of Suco		DILOR				Climate change (decrease of river flow	
	Name of Aldeia		RADIUMA				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	192993				Damage to irrigation structure	
		Y=	9022600				Others	
	Grid reference in Irr. scheme except for above facility	X=	192968			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9022520			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1,000				No	
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.70				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		34			Gate maintenance		
9	Actual irrigation area (ha)		7			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		27.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

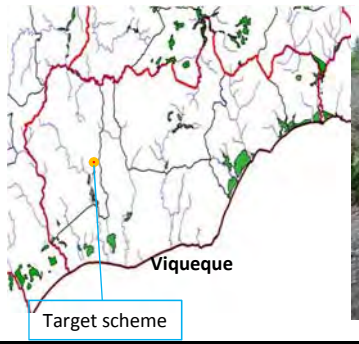
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WELAFUA 5-a-15TR

1	No.		15
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		WELAFUA
4	Name of District		Viqueque
	Name of Sub-district		Lacluta
5	Name of Suco		DILOR
	Name of Aldeia		AKADIRUHUN
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=	183423
		Y=	9014316
	Grid reference in Irr. scheme except for above facility	X=	183601
		Y=	9013868
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2.500
		Width(m) for typical	0.50
		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		50
9	Actual irrigation area (ha)		29
10	Original or planned irrigation area (ha)		140.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

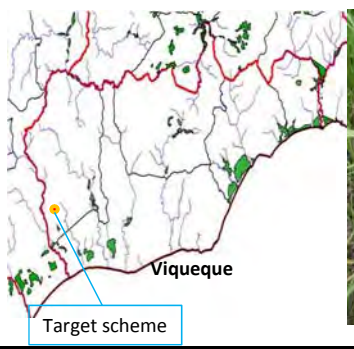
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : 0 5-a-16TR

1	No.		16
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		others
		Problems on Canal
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot flow the water for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)
		Others
		Problems on Pond/Lake
		Broken
		Not functional by deterioration
		Cannot operate the outlet gate
		Cannot keep the water in pond 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 : Viqueque Irrigation scheme : WATUCUSI 5-a-17TR

1	No.		17	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		10/1/2014			(Frequency)	Every year	
3	Name of Irrigation scheme		WATUCUSI				A few in 5 years	✓
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Uatucarbau			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		WANIUMA				Climate change (decrease of river flow	
	Name of Aldeia		WATULILOLI				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	✓
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	243741.75				Damage to irrigation structure	✓
		Y=	9032420.91				Others	
	Grid reference in Irr. scheme except for above facility	X=	244729			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9030851			Others		
7	What kind of structure?	Weir						
		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)=	10.0				Traditional WG	
		Height(m)=	3.00				Others	
		Width/1span (m)=	12.00		a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Number of span =	1		a-3) Name of representative of WG or WUAs			- KAITANO DA COSTA
		Number of gates=	2		a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
	/ If Intake→	Length(m)=					No	✓
		Height(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Number of span =					US$/ha as water fee	
		Width/1span (m)=				by Rice	kg/HH as member ship fee	
		Number of gates=					kg/ha as water fee	
	/ If Canal→	Length of main	2.500		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	0.60				No	
		Height(m)=	0.90		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		37		a-6) What is	Gate operation		✓
9	Actual irrigation area (ha)		include"17"			Gate maintenance		✓
10	Original or planned irrigation area (ha)		100.0			Canal Cleaning		✓
11	Original constructed year	Year's	2000s			Canal Rehabilitation		
		Exact year	2002			Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			
12	Which type of the water source ?	Spring			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓			Others		
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil	✓					
		Others						

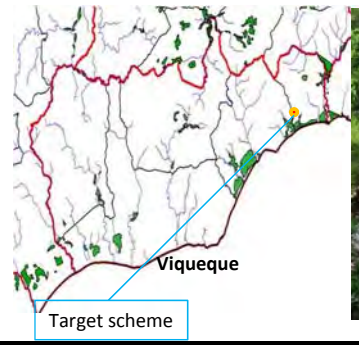
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	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 : IRABERE MANUKALA 5-a-18TR

1	No.		18
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		IRABERE MANUKALA
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		IRABIN DESIMA
	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=	247990.29
		Y=	9037969.82
	Grid reference in Irr. scheme except for above facility	X=	248748
		Y=	9038048
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	6.00
		Number of gates=	1
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		218
9	Actual irrigation area (ha)		98
10	Original or planned irrigation area (ha)		364.0
11	Original constructed year	Year's	2000s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

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

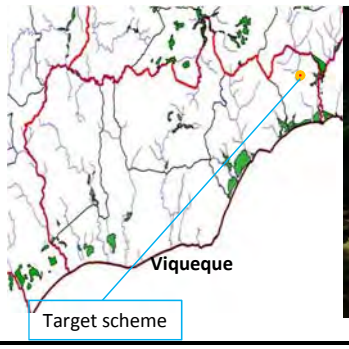
●Evaluation of Irrigation scheme

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

Size of area (10 pts, more than 100ha)	Total Points	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 QUIACAI 5-a-19TR

1	No.		19
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		IRABERE QUIACAI
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		IRABIN DESIMA
	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=	248138.33
		Y=	9037769.98
	Grid reference in Irr. scheme except for above facility	X=	248145
		Y=	9038003
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1.000
		Width(m) for typical	0.50
		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		15
9	Actual irrigation area (ha)		8
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

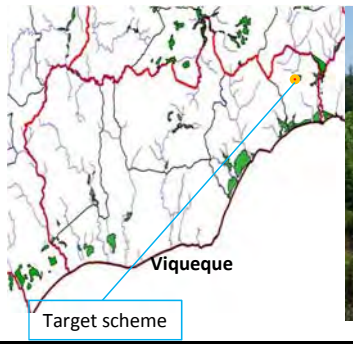
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	50
Evaluation of degree on immediate treatment			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 : WAIDASU 5-a-20TR

1	No.		20	
2	Date of Survey		10/1/2014	
3	Name of Irrigation scheme		WAIDASU	
4	Name of District		Viqueque	
	Name of Sub-district		Uatucarbau	
5	Name of Suco		BATATA	
	Name of Aldeia		LAVABA	
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=	248251	
		Y=	9039833	
	Grid reference in Irr. scheme except for above facility	X=	249048	
		Y=	9039715	
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		77	
9	Actual irrigation area (ha)		31	
10	Original or planned irrigation area (ha)		76.0	
11	Original constructed year	Year's		
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring	✓	
		River Water		
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry		
		Earth/Soil	✓	
		Others		

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

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

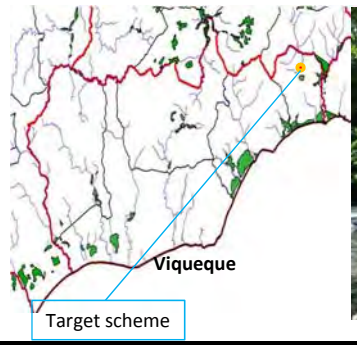
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : IRABERE NABO 5-a-21TR

1	No.		21
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		IRABERE NABO
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		IRABIN DESIMA
	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=	248004.65
		Y=	9037978.42
	Grid reference in Irr. scheme except for above facility	X=	249315
		Y=	9038197
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	20.00
		Height(m)=	1.20
		Number of span =	1
		Width/1span (m)=	6.00
		Number of gates=	1
	/ If Canal→	Length of main	3,000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		218
9	Actual irrigation area (ha)		include"21"
10	Original or planned irrigation area (ha)		364.0
11	Original constructed year	Year's	2000s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

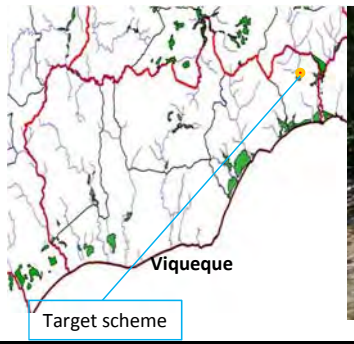
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) ●		Total Points	50
Evaluation of degree on immediate treatment			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 : NUBERE 5-a-22TR

1	No.		22
2	Date of Survey		10/1/2014
3	Name of Irrigation scheme		NUBERE
4	Name of District		Viqueque
	Name of Sub-district		Uatucarbau
5	Name of Suco		LUIULU
	Name of Aldeia		DIHIHARI
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=	245628.8
		Y=	9039300.8
	Grid reference in Irr. scheme except for above facility	X=	245332
		Y=	9038545
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	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		779
9	Actual irrigation area (ha)		92
10	Original or planned irrigation area (ha)		95.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

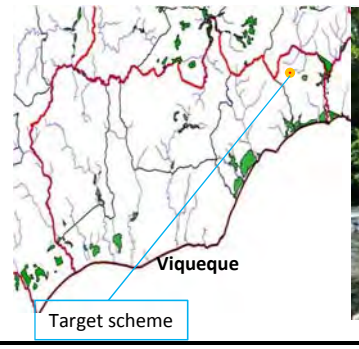
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : OUTOKU 5-a-23TR

1	No.		23
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		OUTOKU
4	Name of District		Viqueque
	Name of Sub-district		Watlari
5	Name of Suco		VESSORU
	Name of Aldeia		VANIUMA
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=	239346
		Y=	9032777
	Grid reference in Irr. scheme except for above facility	X=	239705
		Y=	9032101
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	1.50
		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
9	Actual irrigation area (ha)		282
10	Original or planned irrigation area (ha)		367.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

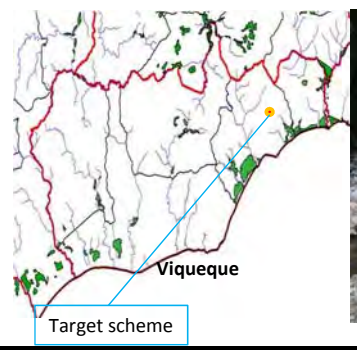
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	✓
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency)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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	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
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		SURILALE
4	Name of District		Viqueque
	Name of Sub-district		Watlari
5	Name of Suco		VESSURO
	Name of Aldeia		VANIUMA
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=	239346
		Y=	9032777
	Grid reference in Irr. scheme except for above facility	X=	239705
		Y=	9032101
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	1.50
		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
9	Actual irrigation area (ha)		Include"23"
10	Original or planned irrigation area (ha)		367.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

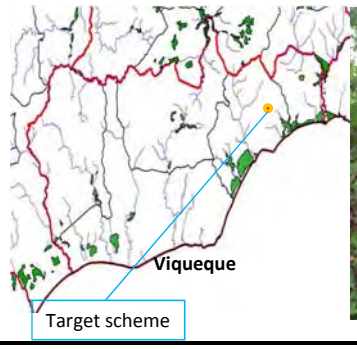
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : IRATOKORO 5-a-25TR

1	No.		25
2	Date of Survey		11/1/2014
3	Name of Irrigation scheme		IRATOKORO
4	Name of District		Viqueque
	Name of Sub-district		Watlari
5	Name of Suco		BABULU
	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	
		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	4,000
		Width(m) for typical	0.60
		Height(m)=	0.70
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		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	

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

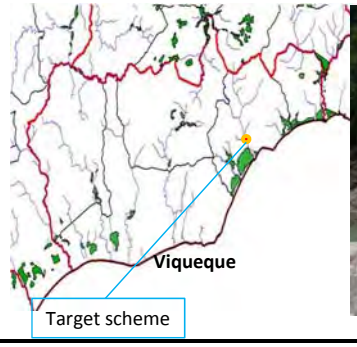
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
●	●	●	●
Size of area (10 pts, more than 100ha) -		Total Points	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 : DARADAU 5-a-26TR

1	No.		26
2	Date of Survey		12/1/2014
3	Name of Irrigation scheme		DARADAU
4	Name of District		Viqueque
	Name of Sub-district		Watlari
5	Name of Suco		VESSURO
	Name of Aldeia		VANIUMA
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=	239346
		Y=	9032777
	Grid reference in Irr. scheme except for above facility	X=	239705
		Y=	9032101
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	1,200
		Width(m) for typical	1.50
		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
9	Actual irrigation area (ha)		include"23"
10	Original or planned irrigation area (ha)		367.0
11	Original constructed year	Year's	Before 1970
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

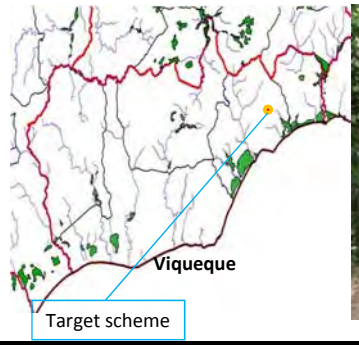
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : SALERE MATAHOI 5-a-27TR

1	No.		27
2	Date of Survey		11/1/2014
3	Name of Irrigation scheme		SALERE MATAHOI
4	Name of District		Viqueque
	Name of Sub-district		Watlari
5	Name of Suco		MATAHOI
	Name of Aldeia		WATULO
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=	225490.06
		Y=	9026208.44
	Grid reference in Irr. scheme except for above facility	X=	226967
		Y=	9023717
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2.000
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		78
9	Actual irrigation area (ha)		252
10	Original or planned irrigation area (ha)		112.2
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

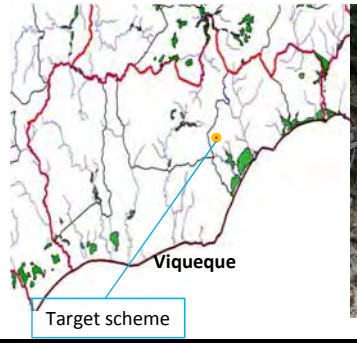
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	●
Size of area (10 pts, more than 100ha) ●		Total Points	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 : MOA EMI 5-a-28TR

1	No.		28	
2	Date of Survey		13/1/2014	
3	Name of Irrigation scheme		MOA EMI	
4	Name of District		Viqueque	
	Name of Sub-district		Ossu	
5	Name of Suco		OSSURUA	
	Name of Aldeia		UMAMERE	
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=	214378.4	
		Y=	9032303.32	
	Grid reference in Irr. scheme except for above facility	X=	214939	
		Y=	9031744	
7	What kind of structure?	Weir		
		Intake		
		Canal	✓	
		Pond/Lake		
		Others		
	/ If Weir→	Length(m)=		
		Height(m)=		
		Width/1span (m)=		
		Number of span =		
		Number of gates=		
	/ If Intake→	Length(m)=		
		Height(m)=		
		Number of span =		
		Width/1span (m)=		
		Number of gates=		
	/ If Canal→	Length of main	2,000	
		Width(m) for typical	0.60	
		Height(m)=	0.70	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		411	
9	Actual irrigation area (ha)		65	
10	Original or planned irrigation area (ha)		334.0	
11	Original constructed year	Year's	2000s	
		Exact year		
		Rehabilitated year		
12	Which type of the water source ?	Spring	✓	
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake	✓	
		Intake with Gates		
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

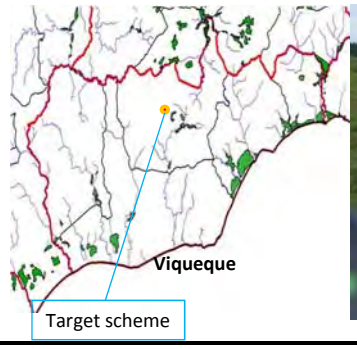
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : 0 5-a-29TR

1	No.		29
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
Size of area (10 pts, more than 100ha)		Total Points	
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 : FUTUDU 5-a-30TR

1	No.		30
2	Date of Survey		13/1/2014
3	Name of Irrigation scheme		FUTUDU
4	Name of District		Viqueque
	Name of Sub-district		Ossu
5	Name of Suco		UABUBU
	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	
		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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

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

●Evaluation of Irrigation scheme

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

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

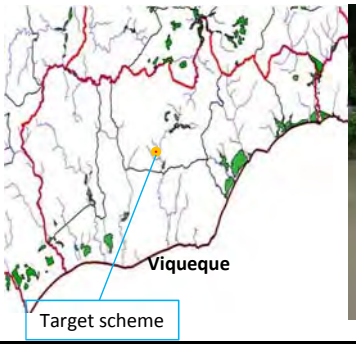
* Evaluation criteria

A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)

B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)

C : below 50 pt (Scheme which need to conduct the examination for detail survey with monitoring)

●Location of Irrigation Scheme



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

District : 0 Irrigation scheme : 0 5-a-31TR

1	No.		31
2	Date of Survey		
3	Name of Irrigation scheme		
4	Name of District		
	Name of Sub-district		
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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
2	Date of Survey		13/1/2014
3	Name of Irrigation scheme		RAUMATA
4	Name of District		Viqueque
	Name of Sub-district		Ossu
5	Name of Suco		UAGEIA
	Name of Aldeia		LUHABERA
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=	216685
		Y=	9030460
	Grid reference in Irr. scheme except for above facility	X=	216789
		Y=	9030446
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	800
		Width(m) for typical	0.70
		Height(m)=	0.35
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		67
9	Actual irrigation area (ha)		76
10	Original or planned irrigation area (ha)		37.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

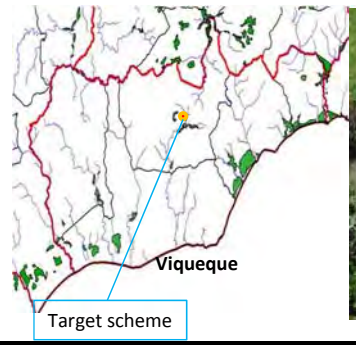
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : HAENAO 5-a-33TR

1	No.		33
2	Date of Survey		13/1/2014
3	Name of Irrigation scheme		HAENAO
4	Name of District		Viqueque
	Name of Sub-district		Ossu
5	Name of Suco		OSSURUA
	Name of Aldeia		WATULAWA
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=	214305.7
		Y=	9030598.75
	Grid reference in Irr. scheme except for above facility	X=	214170
		Y=	9030056
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)=	1.00
		Number of span =	1
		Width/1span (m)=	1.20
		Number of gates=	2
	/ If Canal→	Length of main	1,000
		Width(m) for typical	0.85
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		52
9	Actual irrigation area (ha)		57
10	Original or planned irrigation area (ha)		50.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	✓
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

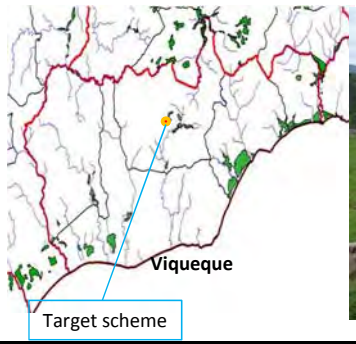
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : HUKALALE 5-a-34TR

1	No.		34
2	Date of Survey		13/1/2014
3	Name of Irrigation scheme		HUKALALE
4	Name of District		Viqueque
	Name of Sub-district		Ossu
5	Name of Suco		
	Name of Aldeia		
6	Observing location of the Grid	Free Intake	✓
		Intake with gates	
		Pond/Lake/Spring	
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	
		Y=	
	Grid reference in Irr. scheme except for above facility	X=	
		Y=	
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	
		Width(m) for typical	
		Height(m)=	
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		103
9	Actual irrigation area (ha)		none
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

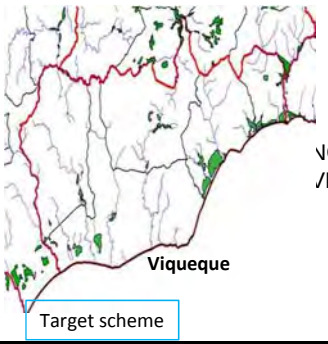
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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



NO ACCESS TO THE SCHEME BY VEHICLE OR FOOT

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

District : Viqueque Irrigation scheme : KUAN LOLIK 5-a-35TR

1	No.		35
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		KUAN LOLIK
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		KUMALOR
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=	198373
		Y=	9010923
	Grid reference in Irr. scheme except for above facility	X=	196984
		Y=	9009682
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		47
9	Actual irrigation area (ha)		include"9"
10	Original or planned irrigation area (ha)		50.0
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	

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

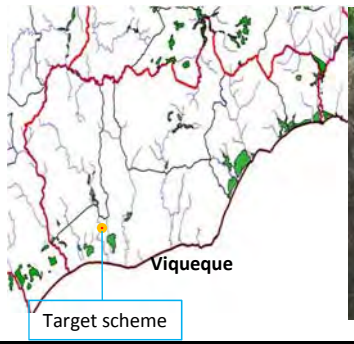
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	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 : QUADEKUN 5-a-36TR

1	No.		36
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		QUADEKUN
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		BAHALARAWAIN
	Name of Aldeia		WELALEO
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=	202648
		Y=	9015569
	Grid reference in Irr. scheme except for above facility	X=	202648
		Y=	9015567
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	800
		Width(m) for typical	0.50
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		150
9	Actual irrigation area (ha)		114
10	Original or planned irrigation area (ha)		88.0
11	Original constructed year	Year's	2010s
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	✓
		(Frequency) Every year	
		A few in 5 years	✓
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	
		Traditional WG	✓
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		3
	a-3) Name of representative of WG or WUAs		- JACINTO VIANA
	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	% 10
			for years 5
		Decrease	%
			for years
	a-6) What is	Gate operation	✓
		Gate maintenance	
		Canal Cleaning	✓
		Canal Rehabilitation	
		Others	
	a-7) How often are the meeting held in a year?		2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

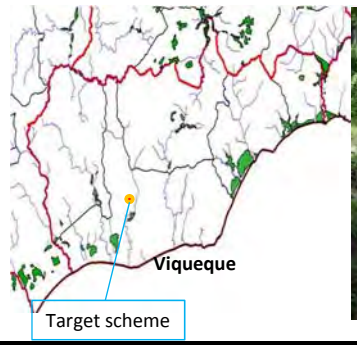
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WEDARE 5-a-37TR

1	No.		37
2	Date of Survey		14/1/2014
3	Name of Irrigation scheme		WEDARE
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		IRAMER
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=	197525
		Y=	9011068
	Grid reference in Irr. scheme except for above facility	X=	197359
		Y=	9010846
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	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		46
9	Actual irrigation area (ha)		include"9"
10	Original or planned irrigation area (ha)		100.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

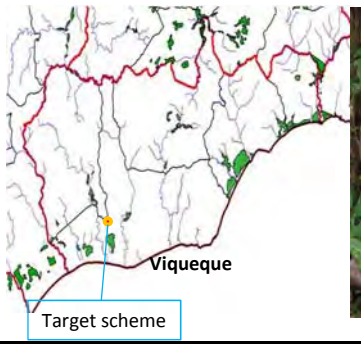
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : AEDAK TURKAKEULUAN 5-a-38TR

1	No.		38
2	Date of Survey		14/1/2014
3	Name of Irrigation scheme		AEDAK TURKAKEULUAN
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		IRAMER
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=	188923
		Y=	9009855
	Grid reference in Irr. scheme except for above facility	X=	189390
		Y=	9009107
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)=	0.40
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		26
9	Actual irrigation area (ha)		42
10	Original or planned irrigation area (ha)		20.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

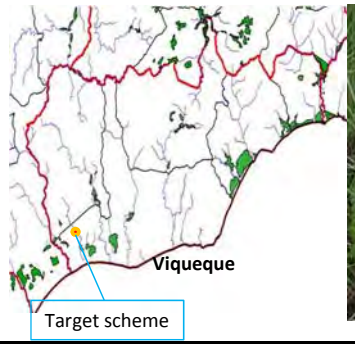
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
	●	●	
Size of area (10 pts, more than 100ha) -		Total Points	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 : FEHUK FUI 5-a-39TR

1	No.		39
2	Date of Survey		14/1/2014
3	Name of Irrigation scheme		FEHUK FUI
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		UMA-BOOT
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=	185407
		Y=	9010257
	Grid reference in Irr. scheme except for above facility	X=	185416
		Y=	9010163
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		87
9	Actual irrigation area (ha)		56
10	Original or planned irrigation area (ha)		107.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- VICENTE
	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	%	10
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

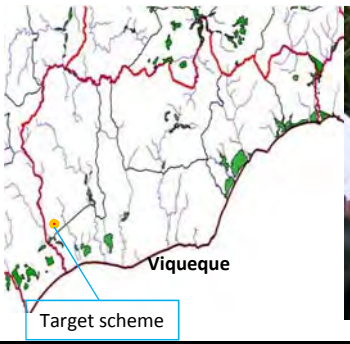
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : BUKU 5-a-40TR

1	No.		40	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		14/1/2014			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BUKU				A few in 5 years	
4	Name of District		Viqueque				A few in 10 years	
	Name of Sub-district		Viqueque			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LUCA				Climate change (decrease of river flow	
	Name of Aldeia		UMA-BOOT				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	192695				Damage to irrigation structure	
		Y=	9011874				Others	
	Grid reference in Irr. scheme except for above facility	X=	192357			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	9009223			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake					No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	1.300				No	
		Width(m) for typical	0.70		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		18			Gate maintenance		
9	Actual irrigation area (ha)		272			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		612.0			Canal Rehabilitation		
11	Original constructed year	Year's				Others		
		Exact year			a-7) How often are the meeting held in a year?			
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

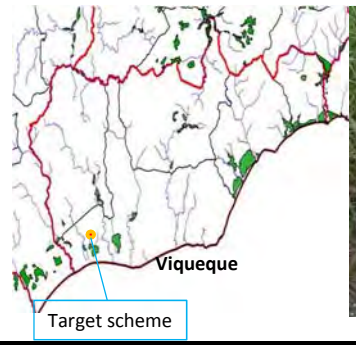
13	What's kind of problem for the structure or facility, and reason of problem ?		
		Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : WELAKU BEIN 5-a-41TR

1	No.		41
2	Date of Survey		24/1/2014
3	Name of Irrigation scheme		WELAKU BEIN
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		BAHALARAWAIN
	Name of Aldeia		WELALEO
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=	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	900
		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		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	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	
			A few in 5 years	✓
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			3
	a-3) Name of representative of WG or WUAs			- JACINTO VIANA
	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	%	10
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		✓
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

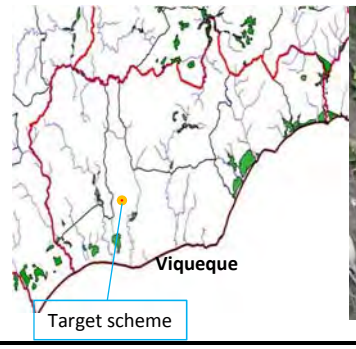
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : NAHAK SADIK 5-a-42TR

1	No.		42	
2	Date of Survey		12/1/2014	
3	Name of Irrigation scheme		NAHAK SADIK	
4	Name of District		Viqueque	
	Name of Sub-district		Lacluta	
5	Name of Suco		DILOR	
	Name of Aldeia		RADIUMA	
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=	191501.69	
		Y=	9021927.99	
	Grid reference in Irr. scheme except for above facility	X=	191597	
		Y=	9021728	
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	1,042	
		Width(m) for typical	0.60	
		Height(m)=	0.80	
	/ If Pond or lake→	Diameter of Pond(m) =		
		Depth(m)=		
		Number of Pond =		
8	Number of house hold in service area		22	
9	Actual irrigation area (ha)		39	
10	Original or planned irrigation area (ha)		30.0	
11	Original constructed year	Year's	2010s	
		Exact year	2010	
		Rehabilitated year		
12	Which type of the water source ?	Spring		
		River Water	✓	
		Under Ground Water		
		Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		
		Weir (Wooden		
		Free intake		
		Intake with Gates	✓	
		Pond/Lake		
		Canal	✓	
		Others		
	If respondent select above "☑ Canal" , show the type of canal	Concrete		
		Wet Masonry	✓	
		Earth/Soil	✓	
		Others		

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

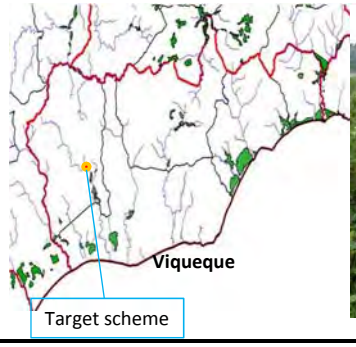
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Viqueque Irrigation scheme : BOKAWEN OAN 5-a-43TR

1	No.		43
2	Date of Survey		14/1/2014
3	Name of Irrigation scheme		BOKAWEN OAN
4	Name of District		Viqueque
	Name of Sub-district		Viqueque
5	Name of Suco		LUCA
	Name of Aldeia		MOBOOT
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=	185407
		Y=	9010257
	Grid reference in Irr. scheme except for above facility	X=	185416
		Y=	9010163
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	2,000
		Width(m) for typical	1.00
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		87
9	Actual irrigation area (ha)		include"39"
10	Original or planned irrigation area (ha)		107.0
11	Original constructed year	Year's	
		Exact year	
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			1
	a-3) Name of representative of WG or WUAs			- VICENTE
	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	%	10
			for years	5
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

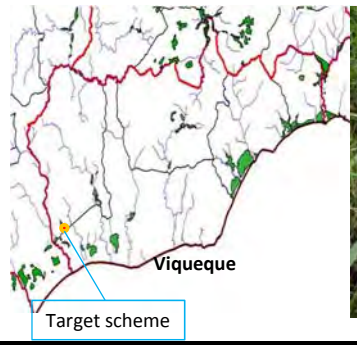
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	
Size of area (10 pts, more than 100ha) ●		Total Points	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
2	Date of Survey		13/12/2013
3	Name of Irrigation scheme		TONO
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		CUNHA
	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	✓
		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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

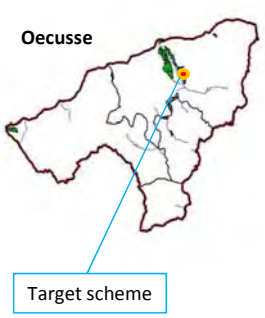
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	✓
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond 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 : Oecusse Irrigation scheme : BARASANTO 7-a-2TC

1	No.		2
2	Date of Survey		13/12/2013
3	Name of Irrigation scheme		BARASANTO
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISUK
	Name of Aldeia		MANUIMPENA
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=	647592
		Y=	8977925
	Grid reference in Irr. scheme except for above facility	X=	647145
		Y=	8978409
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	5.00
		Height(m)=	2.50
		Number of span =	1
		Width/1span (m)=	5.00
		Number of gates=	2
	/ If Canal→	Length of main	400
		Width(m) for typical	0.80
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		45
9	Actual irrigation area (ha)		147
10	Original or planned irrigation area (ha)		35.0
11	Original constructed year	Year's	1970s
		Exact year	1970
		Rehabilitated year	2012
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

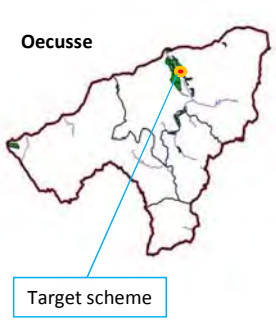
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	✓ 500 - Gates maintenance
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (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)	- No operation.
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : FATUSENE 7-a-3TC

1	No.		3
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		FATUSENE
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISULI
	Name of Aldeia		MANUIPENA
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=	647608
		Y=	8977902
	Grid reference in Irr. scheme except for above facility	X=	647069
		Y=	8978483
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	700
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		84
9	Actual irrigation area (ha)		Include"2"
10	Original or planned irrigation area (ha)		725.0
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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

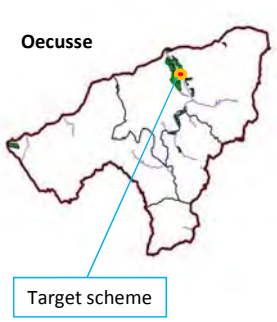
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : BETHANAE 7-a-4TC

1	No.		4	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		17/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BETHANAE				A few in 5 years	
4	Name of District		Oecusse				A few in 10 years	
	Name of Sub-district		Pante Macassar			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		CUNHA				Climate change (decrease of river flow	
	Name of Aldeia		HAUANA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates	✓			(Frequency)	Every year	
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	644490				Damage to irrigation structure	
		Y=	8969028				Others	
	Grid reference in Irr. scheme except for above facility	X=	644954			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8968973			Others		
7	What kind of structure?	Weir		15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
		Intake	✓				No	
		Canal	✓		a) In case of YES			
		Pond/Lake			a-1) What kind of the WG or WUAs ?		WUAs	
		Others					Traditional WG	✓
	/ If Weir→	Length(m)=					Others	
		Height(m)=			a-2) How many number of WG or WUAs in the irrigation scheme ?			
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=						
	/ If Canal→	Length of main	400		a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
		Width(m) for typical	1.50				No	✓
		Height(m)=	1.50		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
	/ If Pond or lake→	Diameter of Pond(m) =					for years	
		Depth(m)=				Decrease	%	
		Number of Pond =					for years	
8	Number of house hold in service area		47		a-6) What is	Gate operation		
9	Actual irrigation area (ha)		18			Gate maintenance		
10	Original or planned irrigation area (ha)		10.0			Canal Cleaning		
11	Original constructed year	Year's	1980s			Canal Rehabilitation		
		Exact year	1980			Others		
		Rehabilitated year			a-7) How often are the meeting held in a year?			3
12	Which type of the water source ?	Spring	✓		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		River Water	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		Under Ground Water				Not required to establish (Reason)		
		Others				Already expired (Reason)		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete				Others		
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates	✓					
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete		16	Opinion or request by interviewee			
		Wet Masonry	✓					
		Earth/Soil						
		Others						

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

●Evaluation of Irrigation scheme

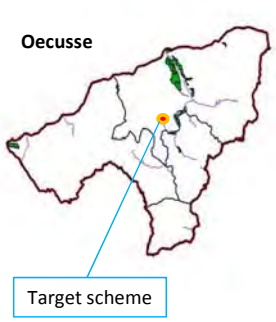
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

Size of area (10 pts, more than 100ha)	Total Points	20
-		

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : KOLAN SINA 7-a-5TC

1	No.		5
2	Date of Survey		14/12/2013
3	Name of Irrigation scheme		KOLAN SINA
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		Lifau
	Name of Aldeia		Postosica
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=	644438
		Y=	8982625
	Grid reference in Irr. scheme except for above facility	X=	644208
		Y=	8982577
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	400
		Width(m) for typical	0.60
		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		150
9	Actual irrigation area (ha)		33
10	Original or planned irrigation area (ha)		24.0
11	Original constructed year	Year's	Before 1970
		Exact year	1960
		Rehabilitated year	2003
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	✓
		Weir (Wooden	✓
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

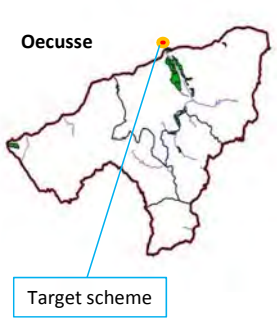
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : OE-LEO 7-a-6TC

1	No.		6
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		OE-LEO
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISUK
	Name of Aldeia		MANUMPENA
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=	644655
		Y=	8981047
	Grid reference in Irr. scheme except for above facility	X=	644584
		Y=	8981095
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.60
		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		76
9	Actual irrigation area (ha)		26
10	Original or planned irrigation area (ha)		45.0
11	Original constructed year	Year's	1980s
		Exact year	1980
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

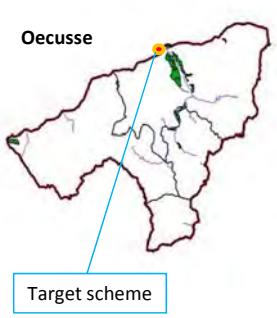
13	What's kind of problem for the structure or facility, and reason of problem ?	
	Problems on Weir or Intake	
	Broken	
	Not functional by deterioration	
	Cannot operate the gate	
	Cannot keep the water level for some reasons (Details)	
	Obstruction of sand/stone (sedimentation)	
	High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : NAKTUKA 7-a-7TC

1	No.		7
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		NAKTUKA
4	Name of District		Oecusse
	Name of Sub-district		Nitibe
5	Name of Suco		BENUFE
	Name of Aldeia		MANAN
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=	616182
		Y=	8966852
	Grid reference in Irr. scheme except for above facility	X=	615945
		Y=	8967234
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	2.00
		Height(m)=	2.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		79
9	Actual irrigation area (ha)		118
10	Original or planned irrigation area (ha)		1,000.0
11	Original constructed year	Year's	1970s
		Exact year	1978
		Rehabilitated year	
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

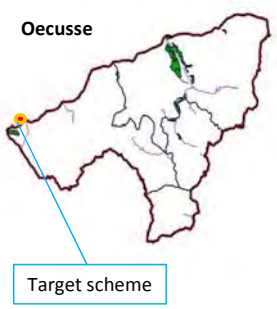
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake
		Broken
		Not functional by deterioration
		Cannot operate the gate
		Cannot keep the water level for some reasons (Details)
		Obstruction of sand/stone (sedimentation)
		High maintenance cost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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : OE-COLO 7-a-8TC

1	No.		8
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		OE-COLO
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISULI
	Name of Aldeia		TUMEPAT
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=	648176.91
		Y=	8978046.13
	Grid reference in Irr. scheme except for above facility	X=	648442
		Y=	8977984
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	60
		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		40
9	Actual irrigation area (ha)		19
10	Original or planned irrigation area (ha)		18.0
11	Original constructed year	Year's	Before 1970
		Exact year	1960
		Rehabilitated year	2001
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

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

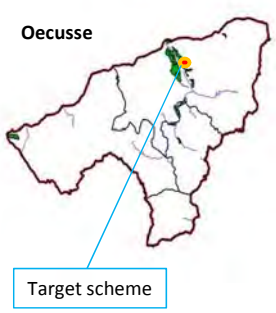
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : OE MAT-HITU 7-a-9TC

1	No.		9
2	Date of Survey		16/12/2013
3	Name of Irrigation scheme		OE MAT-HITU
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISULI
	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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

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

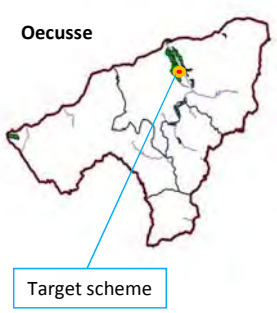
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : BITANA 7-a-10S

1	No.		10
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		BITANA
4	Name of District		Oecusse
	Name of Sub-district		Oesilo
5	Name of Suco		USITASAE
	Name of Aldeia		BUQUI
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=	646324.95
		Y=	8966569.39
	Grid reference in Irr. scheme except for above facility	X=	646399
		Y=	8966426
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	700
		Width(m) for typical	0.60
		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)		9
10	Original or planned irrigation area (ha)		2.0
11	Original constructed year	Year's	1990s
		Exact year	1990
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	✓
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

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

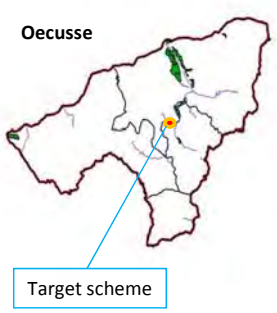
●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Oecusse Irrigation scheme : BITOPA 7-a-11S

1	No.		11
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		BITOPA
4	Name of District		Oecusse
	Name of Sub-district		Oesilo
5	Name of Suco		USITESAE
	Name of Aldeia		BUKI
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=	646498
		Y=	8966362
	Grid reference in Irr. scheme except for above facility	X=	646424
		Y=	8966166
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	700
		Width(m) for typical	0.80
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		62
9	Actual irrigation area (ha)		14
10	Original or planned irrigation area (ha)		86.0
11	Original constructed year	Year's	1980s
		Exact year	1982
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	✓
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	✓
			Damage to irrigation structure	✓
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of 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			- Jose Quelo
	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?			3
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

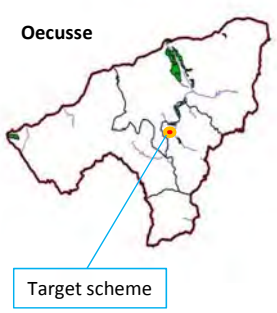
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : SOMNASE 7-a-12S

1	No.		12
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		SOMNASE
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		CUNHA
	Name of Aldeia		SOMNASE
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=	646024
		Y=	8970599
	Grid reference in Irr. scheme except for above facility	X=	646178
		Y=	8970094
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	100
		Width(m) for typical	1.00
		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	

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

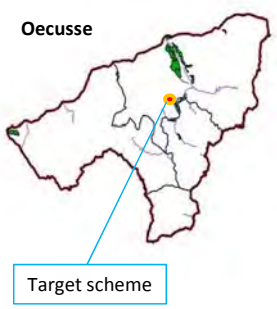
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : TONO LEFT SIDE 7-a-13S

1	No.		13
2	Date of Survey		13/12/2013
3	Name of Irrigation scheme		TONO LEFT SIDE
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISUK
	Name of Aldeia		ISAPIBELA
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=	648065
		Y=	8975095
	Grid reference in Irr. scheme except for above facility	X=	646196
		Y=	8976500
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	80
		Width(m) for typical	1.50
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		75
9	Actual irrigation area (ha)		94
10	Original or planned irrigation area (ha)		2,060.0
11	Original constructed year	Year's	Before 1970
		Exact year	1960
		Rehabilitated year	2007
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	✓
		Free intake	
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	
		Earth/Soil	
		Others	

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

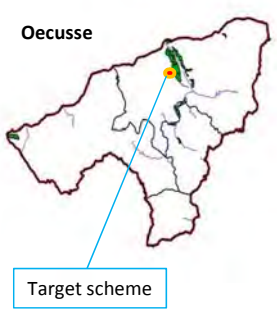
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	✓
			Others	
		Flood Damage to irrigation scheme	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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : SOBEDAM 7-a-14S

1	No.		14
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		SOBEDAM
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		CUNHA
	Name of Aldeia		MONPAI
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=	647712
		Y=	8977078
	Grid reference in Irr. scheme except for above facility	X=	647534
		Y=	8977396
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	100
		Width(m) for typical	1.00
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	70.0
		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	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	✓
		Others	

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

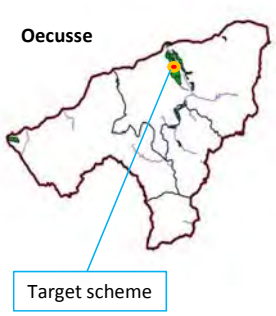
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Oecusse Irrigation scheme : Oe-nitas 7-a-15S

1	No.		15
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		Oe-nitas
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LASILU
	Name of Aldeia		USIPIBELA
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=	645383
		Y=	8980177
	Grid reference in Irr. scheme except for above facility	X=	645219
		Y=	8980286
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	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
9	Actual irrigation area (ha)		54
10	Original or planned irrigation area (ha)		26.0
11	Original constructed year	Year's	1990s
		Exact year	1994
		Rehabilitated year	2003
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	✓
		Others	

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

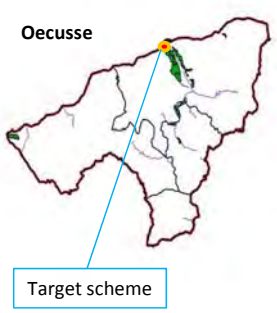
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		✓
		(Frequency)	Every year	✓
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	
			Traditional WG	✓
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			2
	a-3) Name of representative of WG or WUAs			- Gaspar Sabu
	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?			4
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

●Evaluation of Irrigation scheme

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

* Evaluation criteria
A : 100 pt to 70 pt (Scheme which urgently need to conduct detail survey and judge the necessity of measurement)
B : below 70 pt to 50 pt (Scheme which need to conduct detail survey and judge the necessity of measurement)
C : below 50 pt (Scheme 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 : MASIANA 7-a-16S

1	No.		16
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		BANOCO
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=	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	
	/ 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	2.00
		Height(m)=	2.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		42
9	Actual irrigation area (ha)		6
10	Original or planned irrigation area (ha)		40.0
11	Original constructed year	Year's	1970s
		Exact year	1970
		Rehabilitated year	2002
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)	✓ - The enter Is blocked
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		others	
		Problems on Canal	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot flow the water for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on Pond/Lake	
		Broken	
		Not functional by deterioration	
		Cannot operate the outlet gate	
		Cannot keep the water in pond for some reasons (Details)	
		High maintenance cost of structure (Annual Cost US$) (Contents of maintenance with high cost)	
		Others	
		Problems on the other facilities	

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

●Evaluation of Irrigation scheme

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

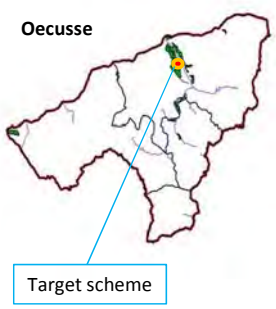
Size of area (10 pts, more than 100ha) -

Total Points **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 : Oecusse Irrigation scheme : NOEBESI 7-a-17S

1	No.		17
2	Date of Survey		13/12/2013
3	Name of Irrigation scheme		NOEBESI
4	Name of District		Oecusse
	Name of Sub-district		Nitibe
5	Name of Suco		LELAUFE
	Name of Aldeia		MAHATA
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=	638144.97
		Y=	8961284.9
	Grid reference in Irr. scheme except for above facility	X=	637705
		Y=	8961490
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	450
		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		190
9	Actual irrigation area (ha)		3
10	Original or planned irrigation area (ha)		12.0
11	Original constructed year	Year's	2000s
		Exact year	2002
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

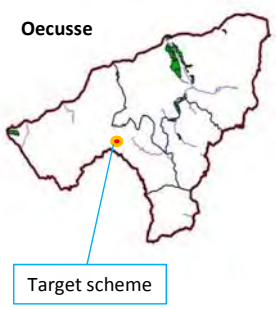
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	✓
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : Oemat 7-a-18S

1	No.		18	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
2	Date of Survey		16/12/2013			(Frequency)	Every year	
3	Name of Irrigation scheme		Oemat				A few in 5 years	
4	Name of District		Oecusse				A few in 10 years	
	Name of Sub-district		Pante Macassar			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LALISULI				Climate change (decrease of river flow	
	Name of Aldeia		USAPIBELA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		
		Intake with gates				(Frequency)	Every year	
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	645475				Damage to irrigation structure	
		Y=	8979027				Others	
	Grid reference in Irr. scheme except for above facility	X=	645339			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8979266			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			- Same as contact person
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?	Yes		
		Number of gates=				No		✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?	Yes		
	/ If Canal→	Length of main	500			No		✓
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.80				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		30			Gate maintenance		
9	Actual irrigation area (ha)		45			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		55.0			Canal Rehabilitation		
11	Original constructed year	Year's	1980s			Others		
		Exact year	1980		a-7) How often are the meeting held in a year?			1
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water				Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake						
		Intake with Gates						
		Pond/Lake						
		Canal	✓					
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

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

●Evaluation of Irrigation scheme

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

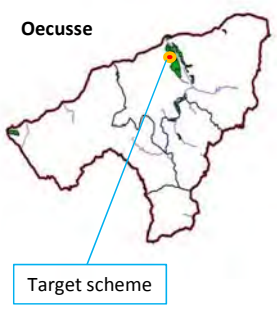
Size of area (10 pts, more than 100ha) : -

Total Points : **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 : Oecusse Irrigation scheme : KAKATUA 7-a-19S

1	No.		19
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		KAKATUA
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LIFAU
	Name of Aldeia		OE-MOLO
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=	645472
		Y=	8979030
	Grid reference in Irr. scheme except for above facility	X=	644858
		Y=	8979186
7	What kind of structure?	Weir	
		Intake	✓
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	120
		Width(m) for typical	1.00
		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	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

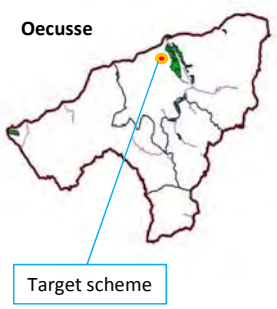
14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Cause or Reason)	Not functional of irrigation structure	
			Climate change (decrease of river flow	
			Others	
		Flood Damage to irrigation scheme		
		(Frequency)	Every year	
			A few in 5 years	
			A few in 10 years	
		(Contents of damage)	Wash out the land	
			Damage to irrigation structure	
			Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Others		
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?		Yes	✓
			No	
	a) In case of YES			
	a-1) What kind of the WG or WUAs ?		WUAs	✓
			Traditional WG	
			Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?			8
	a-3) Name of representative of WG or WUAs			- Oracio Lasi
	a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
			US$/ha as water fee	
		by Rice	kg/HH as member ship fee	
			kg/ha as water fee	
	a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
			No	✓
	/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
			for years	
		Decrease	%	
			for years	
	a-6) What is	Gate operation		
		Gate maintenance		
		Canal Cleaning		✓
		Canal Rehabilitation		✓
		Others		
	a-7) How often are the meeting held in a year?			2
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
		The WG or WUAs is under establishment. (Expected establishnent year)		
		Not required to establish (Reason)		
		Already expired (Reason)		
		Others		
16	Opinion or request by interviewee			

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : NIANAPU 7-a-20S

1	No.		20	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		18/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		NIANAPU				A few in 5 years	
4	Name of District		Oecusse				A few in 10 years	
	Name of Sub-district		Oesilo			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		Bobometo				Climate change (decrease of river flow	✓
	Name of Aldeia		Nianapu				Others	
6	Observing location of the Grid	Free Intake	✓			Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring					A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	✓
	Grid reference at intake/Pond/lake/spring/pump	X=	645993				Damage to irrigation structure	✓
		Y=	8971609				Others	
	Grid reference in Irr. scheme except for above facility	X=	646331			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		✓
		Y=	8972082			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 ?			8
		Width/1span (m)=			a-3) Name of representative of WG or WUAs			- Antonio Lafu
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	800				No	✓
		Width(m) for typical	0.50		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	0.50				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		78			Gate maintenance		
9	Actual irrigation area (ha)		48			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		2.0			Canal Rehabilitation		✓
11	Original constructed year	Year's	Before 1970			Others		
		Exact year	1965		a-7) How often are the meeting held in a year?			1
		Rehabilitated year	2013		b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring				The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete						
		Weir (Wooden						
		Free intake						
		Intake with Gates	✓					
		Pond/Lake						
		Canal	✓	16	Opinion or request by interviewee			
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry	✓					
		Earth/Soil						
		Others						

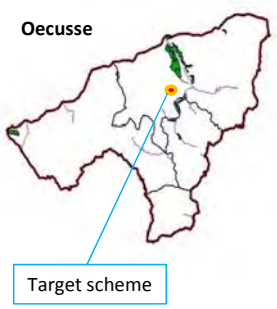
13	What's kind of problem for the structure or facility, and reason of problem ?
	Problems on Weir or Intake
	Broken
	Not functional by deterioration
	Cannot operate the gate
	Cannot keep the water level for some reasons (Details)
	Obstruction of sand/stone (sedimentation)
	High maintenance cost of structure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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : MAILU 7-a-21S

1	No.		21
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		MAILU
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		CUNHA
	Name of Aldeia		NOAFAFO
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=	648871.54
		Y=	8976149.77
	Grid reference in Irr. scheme except for above facility	X=	648772
		Y=	8976350
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	✓
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	300
		Width(m) for typical	0.80
		Height(m)=	0.60
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		26
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	
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	
		Earth/Soil	
		Others	

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

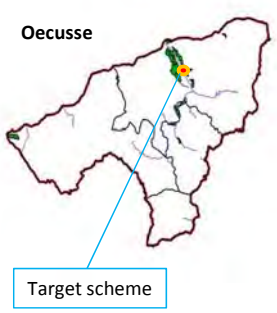
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	✓
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	✓
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Oecusse Irrigation scheme : KAUNFUI 7-a-22S

1	No.		22
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	✓
		Intake with gates	
		Pond/Lake/Spring	✓
		Weir	
		Others	
	Grid reference at intake/Pond/lake/spring/pump	X=	645294
		Y=	8978650
	Grid reference in Irr. scheme except for above facility	X=	645273
		Y=	8978716
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	700
		Width(m) for typical	1.00
		Height(m)=	0.80
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		75
9	Actual irrigation area (ha)		21
10	Original or planned irrigation area (ha)		70.0
11	Original constructed year	Year's	1970s
		Exact year	1978
		Rehabilitated year	2002
12	Which type of the water source ?	Spring	✓
		River Water	
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	
		Pond/Lake	✓
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

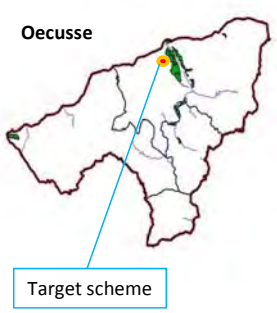
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : BAHNONO 7-a-23S

1	No.		23	14	Is there any major problems in the scheme ?	Shortage of Irrigation Water		✓
2	Date of Survey		16/12/2013			(Frequency)	Every year	✓
3	Name of Irrigation scheme		BAHNONO				A few in 5 years	
4	Name of District		Oecusse				A few in 10 years	
	Name of Sub-district		Pante Macassar			(Cause or Reason)	Not functional of irrigation structure	
5	Name of Suco		LALISUK				Climate change (decrease of river flow	
	Name of Aldeia		USAPIBELA				Others	
6	Observing location of the Grid	Free Intake				Flood Damage to irrigation scheme		✓
		Intake with gates				(Frequency)	Every year	✓
		Pond/Lake/Spring	✓				A few in 5 years	
		Weir					A few in 10 years	
		Others				(Contents of damage)	Wash out the land	
	Grid reference at intake/Pond/lake/spring/pump	X=	646266				Damage to irrigation structure	
		Y=	8977171				Others	
	Grid reference in Irr. scheme except for above facility	X=	645974			Shortage of the workers (when plow, transplandt, harvest ect) (Reason)		
		Y=	8977565			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			- Gearaldo Sabu
		Number of span =			a-4) Do farmers pay the water fee and/or membership fee for the WG or WUAs?		Yes	
		Number of gates=					No	✓
	/ If Intake→	Length(m)=			/ if respondent select above "☑ Yes", which way do farmers pay the above fee?	by Cash	US$/HH as member ship fee	
		Height(m)=					US$/ha as water fee	
		Number of span =				by Rice	kg/HH as member ship fee	
		Width/1span (m)=					kg/ha as water fee	
		Number of gates=			a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?		Yes	
	/ If Canal→	Length of main	200				No	✓
		Width(m) for typical	1.00		/ if respondent select above "☑ Yes", How change of fee?	Increase	%	
		Height(m)=	1.60				for years	
	/ If Pond or lake→	Diameter of Pond(m) =				Decrease	%	
		Depth(m)=					for years	
		Number of Pond =			a-6) What is	Gate operation		
8	Number of house hold in service area		32			Gate maintenance		
9	Actual irrigation area (ha)		218			Canal Cleaning		✓
10	Original or planned irrigation area (ha)		10.0			Canal Rehabilitation		✓
11	Original constructed year	Year's	Before 1970			Others		
		Exact year	1960		a-7) How often are the meeting held in a year?			3
		Rehabilitated year			b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)		
12	Which type of the water source ?	Spring	✓			The WG or WUAs is under establishment. (Expected establishnent year)		
		River Water	✓			Not required to establish (Reason)		
		Under Ground Water				Already expired (Reason)		
		Others				Others		
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete		16	Opinion or request by interviewee			
		Weir (Wooden						
		Free intake	✓					
		Intake with Gates						
		Pond/Lake						
		Canal						
		Others						
	If respondent select above "☑ Canal" , show the type of canal	Concrete						
		Wet Masonry						
		Earth/Soil	✓					
		Others						

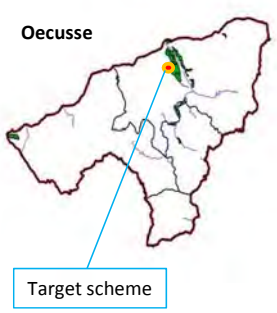
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	✓
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	✓
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

Shortage of water / Obstruction of water pass(40pts)	Problem 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 : Oecusse Irrigation scheme : LETEFOHO 7-a-24S

1	No.		24
2	Date of Survey		17/12/2013
3	Name of Irrigation scheme		LETEFOHO
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		LALISULI
	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=	647875.56
		Y=	8977976.69
	Grid reference in Irr. scheme except for above facility	X=	647740
		Y=	8978014
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	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		18
9	Actual irrigation area (ha)		3
10	Original or planned irrigation area (ha)		7.0
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	

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

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

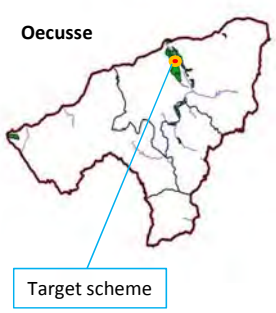
●Evaluation of Irrigation scheme

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

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : SAMNAS 7-a-25S

1	No.		25
2	Date of Survey		18/12/2013
3	Name of Irrigation scheme		SAMNAS
4	Name of District		Oecusse
	Name of Sub-district		Nitibe
5	Name of Suco		SUNUFE
	Name of Aldeia		KABANA
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=	635016
		Y=	8975299
	Grid reference in Irr. scheme except for above facility	X=	635068
		Y=	8975950
7	What kind of structure?	Weir	
		Intake	
		Canal	✓
		Pond/Lake	
		Others	
	/ If Weir→	Length(m)=	
		Height(m)=	
		Width/1span (m)=	
		Number of span =	
		Number of gates=	
	/ If Intake→	Length(m)=	
		Height(m)=	
		Number of span =	
		Width/1span (m)=	
		Number of gates=	
	/ If Canal→	Length of main	600
		Width(m) for typical	1.00
		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		100
9	Actual irrigation area (ha)		34
10	Original or planned irrigation area (ha)		30.0
11	Original constructed year	Year's	1980s
		Exact year	1985
		Rehabilitated year	
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	
		Intake with Gates	✓
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	
		Wet Masonry	✓
		Earth/Soil	
		Others	

14	Is there any major problems in the scheme ?	Shortage of Irrigation Water	✓
		(Frequency) Every year	✓
		A few in 5 years	
		A few in 10 years	
		(Cause or Reason) Not functional of irrigation structure	
		Climate change (decrease of river flow	
		Others	
		Flood Damage to irrigation scheme	
		(Frequency) Every year	
		A few in 5 years	
		A few in 10 years	
		(Contents of damage) Wash out the land	
		Damage to irrigation structure	
		Others	
		Shortage of the workers (when plow, transplandt, harvest ect) (Reason)	
		Others	
15	Is there any Water Group (WG) or Water User Associations (WUAs) ?	Yes	✓
		No	
	a) In case of YES		
	a-1) What kind of the WG or WUAs ?	WUAs	✓
		Traditional WG	
		Others	
	a-2) How many number of WG or WUAs in the irrigation scheme ?		10
	a-3) Name of representative of WG or WUAs		- Lauriano Suni Temen
	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?		4
	b) In case of Not respondent select "☑ No" for the question of "No. 13 : Is there any Water Group (WG) or Water User Associations (WUAs) " , answer the question below.	The WG or WUAs is required in scheme, but some reasons prevent from establishment (Reason)	
		The WG or WUAs is under establishment. (Expected establishnent year)	
		Not required to establish (Reason)	
		Already expired (Reason)	
		Others	
16	Opinion or request by interviewee		

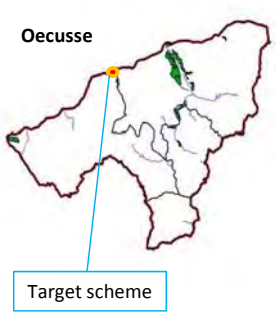
13	What's kind of problem for the structure or facility, and reason of problem ?	Problems on Weir or Intake	
		Broken	
		Not functional by deterioration	
		Cannot operate the gate	
		Cannot keep the water level for some reasons (Details)	
		Obstruction of sand/stone (sedimentation)	
		High maintenance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

●Evaluation of Irrigation scheme

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

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

●Location of Irrigation Scheme



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

District : Oecusse Irrigation scheme : OE-HAUKEE 7-a-26S

1	No.		26
2	Date of Survey		15/12/2013
3	Name of Irrigation scheme		OE-HAUKEE
4	Name of District		Oecusse
	Name of Sub-district		Pante Macassar
5	Name of Suco		COSTA
	Name of Aldeia		MAHATA
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=	654845
		Y=	8983154
	Grid reference in Irr. scheme except for above facility	X=	654717
		Y=	8983552
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	800
		Width(m) for typical	0.80
		Height(m)=	1.00
	/ If Pond or lake→	Diameter of Pond(m) =	
		Depth(m)=	
		Number of Pond =	
8	Number of house hold in service area		44
9	Actual irrigation area (ha)		18
10	Original or planned irrigation area (ha)		2.0
11	Original constructed year	Year's	2000s
		Exact year	2000
		Rehabilitated year	2010
12	Which type of the water source ?	Spring	
		River Water	✓
		Under Ground Water	
		Others	
	If respondent select above "☑ river water" , show the type of irrigation facility	Weir (concrete	
		Weir (Wooden	
		Free intake	✓
		Intake with Gates	
		Pond/Lake	
		Canal	✓
		Others	
	If respondent select above "☑ Canal" , show the type of canal	Concrete	✓
		Wet Masonry	✓
		Earth/Soil	
		Others	

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

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

- Farmers spend at least one cement sack a da

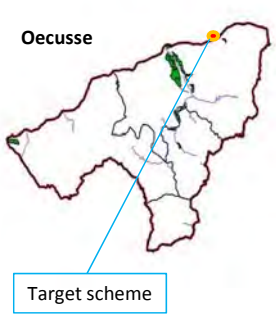
●Evaluation of Irrigation scheme

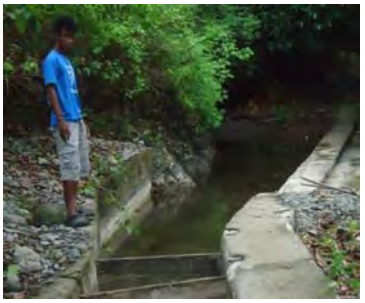
Shortage of water / Obstruction of water pass(40pts)	Problem of intake and keeping water level(20pts)	Damage of structure(20pts)	Flood effect(10pts)
		●	

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

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

●Location of Irrigation Scheme





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

Cropping pattern of Rice

Tables show cropping pattern of rice on each district which are replied in 2nd Inventory suver .

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												Broad-casting
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)*

☐Bobonaro	☐Liquiçà	☐Ermera	☐Dili	☐Aileu	☐Cova Lima	☐Ainaro
☐Atabae	☐Liquiçà	☐Hatólia	☐Dom Aleixo	☐Aileu	☐Fatululic	☐Hato-Udo
☐Balibò	☐Maubara	☐Atsabe	☐Vera Cruz	☐Lequidoe	☐Tilomar	☐Ainaro
☐Cailaco	☐Bazartete	☐Letefoho	☐Nain Feto	☐Remexio	☐Fohorem	☐Hatu-Builicc
☐Maliana		☐Ermera	☐Cristo Rei I	☐Liquidoe	☐Fatululic	☐Maubisse
☐Bobonaro		☐Railaco	☐Cristo Rei II		☐Maucatar	
☐Lolotoe			☐Metinaro		☐Suai	
					☐Zumalai	

☐Manufahi	☐Manatuto	☐Baucau	☐Viqueque	☐Lautém	☐Oecusse
☐Same	☐Laclo	☐Vemasse	☐Lacluta	☐Iliomar	☐Nitibe
☐Alas	☐Laclubar	☐Venilale	☐Viqueque	☐Luro	☐Passabe
☐Fatuberlio	☐Soibada	☐Baucau	☐Ossu	☐Lautèm	☐Oesilo
☐Turiscai	☐Manatuto	☐Quelicai	☐Watlari	☐Lospalos	☐Pante Macassar
	☐Laleia	☐Laga	☐Uatucarbau	☐Tutuala	
	☐Barique	☐Baguia			

5 Name of Suco, Aldeia — Name Suko / 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)

BASIC INFORMATION OF IRRIGATION SCHEME (2/2)

Please measure or iterview 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

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

Surveyor interview to Extension stuff and District Engineer on item No.9~21

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 ? (If surveyor find the drawing map of irrigation canal system and structures , please obtain it)

(☑ check the matching item)

☐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 Irri. 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]

and what's the detail of maintenance [ ]

(↓ go on next page)

Problem of Irrigation facility and scheme (2/3)

☐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.

[ ]

(↓ go on next page)

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. strc. ☐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)

☐by cash

	$ /1 farm household as Membership fee
	$ /ha as water fee

☐by rice

	kg /1 farm household as Membership fee
	kg /ha as water fee

(↓ go on next page)

WG or WUAs (2/2)

a-5) if respondent select above "☑ Yes" at "a-4)", is there any change of amount of fee or rice volume for collecting fee ?

☐Yes ☐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

[ ]

CROPS(1/4)

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

Ave. US$/yr

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

(☑ check the matching item)

(Multiple answers are allowed)

☐rice ☐maize ☐beans ☐cassava ☐potato/Sweat potato

☐Other vegetable / Please interview the detail at below.

[ ]

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.		☐US$/kg or ☐US$/1 sack
1 sack =		kg

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

		Unite
Ave.		☐kg or ☐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*** ↓)

☐May	☐June	☐July	☐Aug.	☐Sep.	☐Oct

☐rain season (***check the proper month*** ↓)

☐Nov.	☐Dec.	☐Jan.	☐Feb.	☐Mar.	☐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)

(↓ go on next page)

CROPS(3/4)

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

At market by own	To market through trader	At own house
☐US$/kg or ☐US$/1 sack	☐US$/kg or ☐US$/1 sack	☐US$/kg or ☐US$/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	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle
	1 sack = kg	1 bandle = kg	
beans	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle	☐US$/kg or ☐US$/1 sack ☐US$/1 bandle
	1 sack = kg	1 bandle = kg	
cassava	☐US$/kg or ☐US$/1 sack ☐US$/1 pieces	☐US$/kg or ☐US$/1 sack ☐US$/1 pieces	☐US$/kg or ☐US$/1 sack ☐US$/1 pieces
	1 sack = kg	1 pieces = kg	
potato	☐US$/kg or ☐US$/1 sack ☐US$/1 bucket	☐US$/kg or ☐US$/1 sack ☐US$/1 bucket	☐US$/kg or ☐US$/1 sack ☐US$/1 bucket
	1 sack = kg	1 bucket =	
others	☐US$/kg or ☐US$/1 sack ☐US$/1____	☐US$/kg or ☐US$/1 sack ☐US$/1____	☐US$/kg or ☐US$/1 sack ☐US$/1____
	one sack = kg	1 pieces = kg	

c) Do farmers use the fertilizer and how much volume? and how do farmers get the fertilizer?

☐Yes (_____kg/ha) ☐No

☐by Own ☐by MAF ☐by other (ex. NGOs)

(↑ how?:)

(↓ go on next page)

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
(%)					