## **APPENDICES**



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#### Table A2-1 Inventory Survey (Aganan RIS in Region-VI)

# INVENTORY SURVEY FOR NATIONAL IRRIGATION SYSTEMS (NIS)

NIS Name : <u>Aganan RIS (Region-VI)</u>

Survey Year : <u>CY 2004 – 2005</u>

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#### Submitted by:

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Irrigation Superintendent II, ASB RIS

Date : <u>June 29, 2006</u>

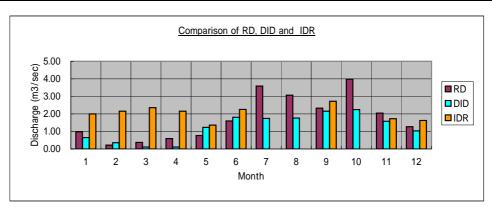
I. General Information								
Name of Irrigation System	Aganan River Irrig	S)						
Location of Diversion Dam	Latitude		46-50 N	Longitude	122-27-03 E			
3. Official Opening of the System	January 1, 1925			. 8				
4. Source of Water Supply	Aganan River							
5. Approved Water Right	7,965	lit/sec						
6. Designed Service Area	5,500							
7. Firmed-up Service Area (FUSA)	4,467							
8. Towns Served	Province		istrict	Town	Area Served (ha)			
	Iloilo	1st		Oton	3,291			
		2nd		Sanmiguel	706			
		Lone		Mandurriao	112			
		2nd		Sta. Baabara	28			
		2nd		Pavia	330			
	Total				4,467			
9. Number of Landowners	3,307	Lando	owner	<u> </u>	.,			
10. Number of Farmers Served	3,029	Farme	er					
11. Average Farm Size	1.5		m Househo	ld				
12. Irrigation Facilities								
Dam	Name	Non						
	Water Source	Non						
Diversion Dam	Name	Agana	an					
	Water Source	Agana	an River					
Main Irrigation Canal	Total Length		11.85	km				
Lateral Irrigation Canal	Total Length		45.27	km				
Service Roads	46.03	km						
Access Roads	2.74	km						
Drainage Canal	9.50	km	Density	2.1	m/ha			
Farm-Ditch	n.a	km	Density	#VALUE!	m/ha			
13. Main Crops								
Wet Season	Paddy							
Dry Season	Paddy							
14. No. of Organized IA and Their Activity								
Name of IA	San Jose-Sta. Nino			364	ha			
	Samicasa			376	ha			
	Macapuan			351	ha			
	Sacambito			481	ha			
	Lapa			991	ha			
	Pasamisba			521	ha			
	Lampacapa			457	ha			
				367	ha			
					ha			
	Total			3,908	ha			
Length of Canal under Contract (Type-1)	25.17	km						
Areas covered by Contract	3,899	ha	87	%				

II.	Water Resource and Irrigation Requirement Information	(WRIF	R)								
2.1	Available Water Resources										
	(1) Name of Water Source (River Name)	Agana	n River								
	(2) Drainage Area at Diversion Site		104	km <sup>2</sup>			]				
	(3) Climate Type	T	ype-I								
	(4) Average River Discharge at Diversion Site	Dry	0.89	$m^3/s$	Wet	2.89	$m^3/s$	Average		1.73	$m^3/s$
	(5) Average Diverted Intake Discharge	Dry	0.71	$m^3/s$	Wet	1.91	m <sup>3</sup> /s	Averafe		1.22	$m^3/s$
	(6)Total Rainfall : Service Area	Dry	2052.5	mm	Wet	1,646.1	mm	Annual	2,	229.7	mm
	: Drainage Area	Dry		mm	Wet		mm	Annual			mm
2.2	Irrigation Water Requirement (IWR)										
	(1) Firmed-up Service Area (FUSA)		4	1,467	ha						
	(2) Irrigated Area in the Crop Year (CY)	Crop '	Year	2	004 - 2	2005	Dry	2,2	11	ha	
							Wet	4,2	84	ha	
	(3) First Crop (Main Cropping Season)	Dry S	Season Pa	addy	1						
		Wet S	Season Pa	addy	2	0					
	(4) Irrigation Parameter for LS/LP										
	Soil Texture	C	lay								
	Percolation (p)	Dry	1.06	mm/	'day	Wet	1.06	mm/day			
	Evaporation (Ev)	Dry	4.18	mm/	'day	Wet	4.18	mm/day			
	Evapo-Transpiration (Et)	Dry	5.6	mm/	'day	Wet	5.6	mm/day			
	(5) Average Monthly Irrigation Water Requirement (IWR)										
	Crop Water Requirement (CWR) (W/O Effe. Rainfall)	Dry	6.66	mm/	'day	Wet	6.66	mm/day			
	Turn-out Water Duty (qtni) (W/O Effective Rainfall)	Dry	1.0	lit/se	ec/ha	Wet	1.0	lit/sec/ha	l		
	Irrigation Diversion Requirement (IDR)	Dry	1.25	lit/se	ec/ha	Wet	1.17	lit/sec/ha	l .		
	(6) Max. Unit Land Soaking Irrigation Requirement (qtsi) (W Effective Rainfall)	Dry	0.77	lit/se	ec/ha	Wet	1.66	lit/sec/ha	l .		
	(7) Area and Percentage of Water Shortage	Dry			ha		0 %				
		Wet			ha		0 %				
	(8) Location of Water Shortage Occurrence in Dry Season	Up-str	eam Area	a	1						
	Crop	Middl	e-stream	Area	2						
		Down	-stream A	Area	3						
	(9) Damaged Amounts by Water Shortage	Dry S	eason Cro	ор			mil	lion Peso			
		Wet S	eason Pa	ddy			mil	lion Peso			_
	(10) Reasons of Water Shortage	Absol	ute Lack	of Wa	ater				1		
		Dama	ged Facil	ities					2		
		Inadeo	quate Wa	ter Ma	anagen	nent			3		
		Others	S						4		
	(11) Utilization Conditions of Return Flow (Re-Use)	Yes	1	(	0						
		No	2								
	Type of Return-Flow Facilities	Auxili	ary Dam								
	No. of Facilities		2	plac	e						
	Irrigated Area by Return-Flow		120	ha							

#### 2.3 Farm Management Conditions (1) Present Cropping Pattern and Irrigated Area Refer to Figure 2-1 Typical Cropping Pattern Dry 2,084 46.7 Average Irrigated Area Paddy Intensity (% ha #DIV/0! #DIV/0! Upland ha Intensity (% Wet Paddy 2,529 56.6 ha Intensity (%) #DIV/0! Upland #DIV/0! ha Intensity (%) 1,866 Wet 2,457 ha Average Benefited Area Dry ha (2) Introduction of Water Saving Technology Method in Dry Season For Example: Intermittent Irrigation Method **Rotational Irrigation Rotational Irrigation** Aerobic Cultivation Area n.a ha Sustainable System of Irrigated Agriculture ha Method (3) Introduction Period of Water Saving November March Technology during dry Season 2

#### Balance of Available Water Resources (AWR) and Irrigation Water Requirement (IWR) in Average Year

										(u	nit : m	<sup>3</sup> /sec)
Item	1	2	3	4	5	6	7	8	9	10	11	12
Ave. River Discharge (RD)	0.98	0.22	0.37	0.59	0.77	1.60	3.59	3.07	2.33	3.98	2.04	1.27
Ave. Diverted Intake Discharge (DI	0.65	0.36	0.11	0.11	1.23	1.81	1.74	1.76	2.15	2.24	1.58	1.03
Ave. Irrigation Diversion Req. (IDF	2.00	2.15	2.35	2.15	1.36	2.25	0.00	0.00	2.72	0.00	1.72	1.62



#### 2.5 Evaluation of Water Use

(1) Irrigation Water Use Conditions and Problems in the Reported Year CY

- Lack of farmditch

Farmditches have been provided at on-farm level under the Jalaur-Multi-Purpose Irrigation Project, which have implemented during 1977-1983, but at present most of the farmdiches are not existed at on-farm level. Therefore, an effective water distribution could not be implemented.

- (2) Countermeasures to Solve the Above Problems
- Promote and strengthening of IA for provision of darmditches at on-farm level

III. Flood and Drainage Info	ormation					
3.1 Flood Information						
(1) Drainage Area at Divers:	on Dam Site		104	km <sup>2</sup>		
(2) Average Annual Rainfal		2.2	30.0			
(3) Peak Flood Discharge fo		2,2	30.0	111111		
Peak Flood Discharge	1145010 1041			m <sup>3</sup> /sec Date		
Gauge Height at Peak	Discharge			m-msl		
Max. Daily Rainfall	2130114180			mm/day		
	Peak Flood Discharge	#DIV	V/0!	%		
(4) Design Flood Discharge	at Diversion Sites			m <sup>3</sup> /sec Probability		
		·				
3.2 Drainage Information						
(1) Inundation Conditions in		CY	2004	4 - 2005		1 .
Inundation Area	Main			ha Duration Period	1	day
	Lateral A Lateral B-3			ha Duration Period ha Duration Period	1	day
	Lateral B			ha Duration Period ha Duration Period	1	day day
	Lateral D			ha Duration Period	1	day
	Lateral			ha Duration Period	1	day
	Total	1.	,000			
			,			
Damaged Amounts b	y Inundation in CY			- 200 Amounts	n.a	million Peso
Reasons of Inundatio	n Occurrence	Heav			1	0
			_	e Drainage System	2	
			_	Water Management	3	
		Other	S		4	
3.3 Evaluation of Flood and D	roinaga Canditions					
(1) Flood and Drainage Con		the Reno	orted	Vear CV -		
- Due to no rehabilitation v					ken nlace :	at the
downstream areas in wet	_	ios, iroqu	.0110	aramage damages are a	men place	at the
(2) Countermeasures to solv	e the Above Problems					
- Provision and rehabilitation						
	Ü					

Table 2-1 Monthly Average River Discharge Records (at Diversion Site)

River Name Aganan River Drainage Area km<sup>2</sup> Lat.: 10-46-50 N Lon.: 122-27-03 E 104

1952   0.07   0.04   0.04   0.04   0.01   2.24   3.47   3.70   8.95   12.92   0.81   3.02   0.59   6.26   2	Dramage A	rea	104	km <sup>-</sup>		Lat.:	10-40	-30 N	Lon.:	122-27	7-03 E				( <u>:</u> 4	3,
Year		I					Mo	nth								(/sec)
Jan   Feb.   Mar.   April   May   June   July   Aug.   Sept.   Oct.   Nov.   Dec.   Dry's   Nets.   Nets.	Year			Dry Season			1.10		Wet Season			Dry S	eason	ъ с	Ŭ	
1952   0.07			Feb.	Mar.	April			July		Sept.		Nov.		Dry S.		)
1953					0.04							1.16				1.72
1954					0.04							0.81				2.95
1955   13.22   0.29																0.68
1958   0.04   0.00   0.04   0.04   0.07   0.39   8.33   6.94   0.96   10.12   2.58   0.49   0.47   5.35   1959   0.04   0.04   0.04   0.07   1.49   1.00   5.08   1.98   0.58   1.38   0.69   0.52   0.51   2.00   1   1960   0.19   0.12   0.75   0.69   1.16   2.43   1.64   4.98   1.89   1.72   0.93   0.34   0.6   2.53   1961   0.15   0.08   1.01   0.04   1.94   1.89   2.76   1.98   1.16   3.17   0.73   0.26   0.6   2.19   1   1962   0.19   0.17   0.04   0.04   0.04   0.04   0.35   2.73   4.52   6.67   0.19   0.85   0.04   0.2   2.89   1   1963   0.04   0.04   0.04   0.04   0.05   0.15   0.34   1.05   0.93   0.15   0.04   0.37   0.11   0.52   0   1964   0.04   0.04   0.04   0.04   1.05   1.12   0.63   0.86   0.69   1.05   5.56   0.26   1   0.87   0   1966   0.04   0.00   0.04   0.04   0.14   1.16   2.20   1.38   0.11   0.31   0.41   0.31   0.41   0.31   1.01   0.37   0.88   0.94   0.94   0.94   1.96   0.94   0.94   0.94   0.94   0.94   0.94   0.04   0.94   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05																1.06
1958   0.04   0.00   0.04   0.04   0.07   0.39   8.33   6.94   0.96   10.12   2.58   0.49   0.47   5.35   1959   0.04   0.04   0.04   0.07   1.49   1.00   5.08   1.98   0.58   1.38   0.69   0.52   0.51   2.00   1   1960   0.19   0.12   0.75   0.69   1.16   2.43   1.64   4.98   1.89   1.72   0.93   0.34   0.6   2.53   1961   0.15   0.08   1.01   0.04   1.94   1.89   2.76   1.98   1.16   3.17   0.73   0.26   0.6   2.19   1   1962   0.19   0.17   0.04   0.04   0.04   0.04   0.35   2.73   4.52   6.67   0.19   0.85   0.04   0.2   2.89   1   1963   0.04   0.04   0.04   0.04   0.05   0.15   0.34   1.05   0.93   0.15   0.04   0.37   0.11   0.52   0   1964   0.04   0.04   0.04   0.04   1.05   1.12   0.63   0.86   0.69   1.05   5.56   0.26   1   0.87   0   1966   0.04   0.00   0.04   0.04   0.14   1.16   2.20   1.38   0.11   0.31   0.41   0.31   0.41   0.31   1.01   0.37   0.88   0.94   0.94   0.94   1.96   0.94   0.94   0.94   0.94   0.94   0.94   0.04   0.94   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05																2.52
1958   0.04   0.00   0.04   0.04   0.07   0.39   8.33   6.94   0.96   10.12   2.58   0.49   0.47   5.35   1959   0.04   0.04   0.04   0.07   1.49   1.00   5.08   1.98   0.58   1.38   0.69   0.52   0.51   2.00   1   1960   0.19   0.12   0.75   0.69   1.16   2.43   1.64   4.98   1.89   1.72   0.93   0.34   0.6   2.53   1961   0.15   0.08   1.01   0.04   1.94   1.89   2.76   1.98   1.16   3.17   0.73   0.26   0.6   2.19   1   1962   0.19   0.17   0.04   0.04   0.04   0.04   0.35   2.73   4.52   6.67   0.19   0.85   0.04   0.2   2.89   1   1963   0.04   0.04   0.04   0.04   0.05   0.15   0.34   1.05   0.93   0.15   0.04   0.37   0.11   0.52   0   1964   0.04   0.04   0.04   0.04   1.05   1.12   0.63   0.86   0.69   1.05   5.56   0.26   1   0.87   0   1966   0.04   0.00   0.04   0.04   0.14   1.16   2.20   1.38   0.11   0.31   0.41   0.31   0.41   0.31   1.01   0.37   0.88   0.94   0.94   0.94   1.96   0.94   0.94   0.94   0.94   0.94   0.94   0.04   0.94   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05																3.5
1960   0.19   0.12   0.75   0.69   1.16   2.43   1.64   4.98   1.89   1.72   0.93   0.34   0.6   2.53																2.33
1960   0.19   0.12   0.75   0.69   1.16   2.43   1.64   4.98   1.89   1.72   0.93   0.34   0.6   2.53																2.5 1.13
1961   0.15   0.08   1.01   0.04   1.94   1.89   2.76   1.98   1.16   3.17   0.73   0.26   0.6   2.19   1																1.13
1962   0.19   0.17   0.04   0.04   0.04   0.04   0.35   2.73   4.52   6.67   0.19   0.85   0.04   0.2   2.89   1																1.4
1963															2.19	1.26
1964																1.32
1965																0.28
1966   0.04   0.00   0.04   0.04   1.16   2.20   1.38   0.11   0.31   0.41   0.31   1.01   0.37   0.88   0.89   0.99   0.15   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.05   0.15   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.05   0.15   0.04   0.04   0.04   0.04   0.04   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05														_		0.96
1967   0.37																0.68
1968																0.58 1.2
1969   0.15   0.04   0.04   0.04   0.04   0.04   0.062   4.97   3.10   1.08   3.14   1.27   0.97   0.36   2.58   1   1970   0.56   0.08   0.04   0.04   0.04   4.71   3.81   1.46   1.89   1.79   8.56   3.88   1.89   2.73   2   1971   2.54   2.48   3.55   0.35   3.92   7.52   19.38   0.26   2.55   15.42   8.22   4.67   3.68   9.03   5   1   1   1   1   1   1   1   1   1																0.68
1970																1.29
1971																2.24
Mean 0.98 0.22 0.37 0.59 0.77 1.60 3.56 3.07 2.33 3.98 2.04 1.27 0.89 2.89 1.  Max. 13.22 2.48 3.55 9.38 3.92 7.52 19.38 13.78 8.95 17.70 8.56 8.18 3.68 9.03 9.  Min. 0.04 0.00 0.04 0.04 0.04 0.04 0.04 0.																5.91
Max.     13.22     2.48     3.55     9.38     3.92     7.52     19.38     13.78     8.95     17.70     8.56     8.18     3.68     9.03     9.       Min.     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.11     0.15     0.15     0.04     0.04     0.11     0.52     0.       Dry Season     Nov May     Wet Season     June - Oct.	1971	2.34	2.40	3.33	0.33	3.72	1.32	17.36	0.20	2.33	13.42	6.22	4.07	3.00	7.03	3.71
Max.     13.22     2.48     3.55     9.38     3.92     7.52     19.38     13.78     8.95     17.70     8.56     8.18     3.68     9.03     9.       Min.     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.11     0.15     0.15     0.04     0.04     0.11     0.52     0.       Dry Season     Nov May     Wet Season     June - Oct.																
Max.     13.22     2.48     3.55     9.38     3.92     7.52     19.38     13.78     8.95     17.70     8.56     8.18     3.68     9.03     9.       Min.     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.11     0.15     0.15     0.04     0.04     0.11     0.52     0.       Dry Season     Nov May     Wet Season     June - Oct.																
Max.     13.22     2.48     3.55     9.38     3.92     7.52     19.38     13.78     8.95     17.70     8.56     8.18     3.68     9.03     9.       Min.     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.11     0.15     0.15     0.04     0.04     0.11     0.52     0.       Dry Season     Nov May     Wet Season     June - Oct.																
Max.     13.22     2.48     3.55     9.38     3.92     7.52     19.38     13.78     8.95     17.70     8.56     8.18     3.68     9.03     9.       Min.     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.11     0.15     0.15     0.04     0.04     0.11     0.52     0.       Dry Season     Nov May     Wet Season     June - Oct.																
Min. 0.04 0.00 0.04 0.04 0.04 0.04 0.04 0.	Mean	0.98	0.22	0.37	0.59	0.77	1.60	3.56	3.07	2.33	3.98	2.04	1.27	0.89	2.89	1.73
Dry Season Nov May Wet Season June - Oct.	Max.	13.22	2.48	3.55	9.38	3.92	7.52	19.38	13.78	8.95	17.70	8.56	8.18	3.68	9.03	9.72
	Min.				0.04					0.15	0.15	0.04	0.04	0.11	0.52	0.08
	Dry Seaso					Wet Seas	o n	June -	- Oct.							

Dry Season Nov. - May
Data Source: DPWH, NIA Region VI Office

Table 2-2 Monthly Average River Discharge Records (at Adjacent Station in Other Drainage Area) (Tabulated in Case Data in Table 2-1 are not Availa

River Name Drainage A			km <sup>2</sup>		Lat.:			Lon.:			1				
Diamage A	irea		km		Lat			LOII			ļ			(unit ·	m <sup>3</sup> /sec)
						Mo	onth							Average	m / see/
Year	_	ı	1		1	1 _	1	ı .	T	T -	1		Dry S.	Wet S.	Average
1000	Jan	Feb.	Mar.	April	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.		1	
1980															#DIV/0!
1981															#DIV/0!
1982															#DIV/0!
1983															#DIV/0!
1984															#DIV/0!
1985															#DIV/0!
1986															#DIV/0!
1987															#DIV/0!
1988															#DIV/0!
1989															#DIV/0!
1990															#DIV/0!
1991															#DIV/0!
1992															#DIV/0!
1993															#DIV/0!
1994															#DIV/0!
1995															#DIV/0!
1996															#DIV/0!
1997															#DIV/0!
1998															#DIV/0!
1999															#DIV/0!
2000															#DIV/0!
2001															#DIV/0!
2002															#DIV/0!
2003															#DIV/0!
2004															#DIV/0!
2005															#DIV/0!
2006															#DIV/0!
2007															#DIV/0!
Mean	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00

Data Source :

Table 2-3 Monthly Average Diverted Intake Discharge Records

Dramage Are	ea	104	km <sup>-</sup>		Lat.:	10-40	-30 N	Lon.:	122-21	7-03 E					2
	ı														: m <sup>3</sup> /sec)
					1	Mo				1		-	•	Average	
Year			Dry Season					Wet Season				Season	Dry S.	Wet S.	Average
	Jan	Feb.	Mar.	April	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.			
1994	1.40	0.44	0.00	0.00	2.82	2.76	2.36	2.39	2.97	3.69	0.85	0.51	0.86	2.83	1.68
1995	0.21	0.00	0.00	1.07	0.00	0.29	3.02	2.63	1.61	2.89	0.00	0.00	0.18	2.09	0.98
1996	0.00	0.00	0.00	0.00	2.01	2.14	2.00	2.53	2.25	2.11	1.99	1.46	0.78	2.21	1.37
1997	0.62	0.45	0.00	0.00	2.28	3.84	1.90	1.21	3.81	3.00	1.08	0.10	0.65	2.75	1.52
1998	0.00		0.00	0.00	0.35	1.88	1.41	1.76	1.09	1.22	1.79	2.01	0.59	1.47	0.96
1999	0.87	0.65	1.00	0.00	1.93	1.57	1.14	0.86	1.42	1.73	1.69	1.55	1.10	1.34	1.20
2000	0.46	0.46	0.08	0.00	0.62	0.99	1.10	2.07	1.98	1.88	1.55	1.31	0.64	1.60	1.04
2001	1.39	0.74	0.00	0.00	1.19	1.61	2.44	2.24	2.42	2.03	2.48	1.86	1.09	2.15	1.53
2002	1.01	0.77	0.00	0.00	0.87	1.63	0.65	0.80	1.95	2.09	1.92	0.73	0.76	1.42	1.04
2003	0.49	0.13	0.00	0.00	0.27	1.40	1.42	1.15	1.98	1.78	2.48	0.76	0.59	1.55	0.99
2004	0.47	0.28	0.00	0.00	0.70	1.79	1.55	1.39	1.83	1.85	1.77	1.02	0.61	1.68	1.05
Mean	0.63	0.36	0.10	0.10	1.19	1.81	1.73	1.73	2.12	2.21	1.60	1.03	0.71	1.92	1.22
Max.	1.40	0.77	1.00	1.07	2.82	3.84	3.02	2.63	3.81	3.69	2.48	2.01	1.10	2.83	2.38
Min.	0.00	0.00	0.00	0.00	0.00	0.29	0.65	0.80	1.09	1.22	0.00	0.00		1.34	0.34
171111.	0.00	0.00	0.00	0.00	0.00	0.29	0.03	0.00	1.09	1.22	0.00	0.00	0.10	1.54	0.54

Data Source: NIA Region VI Office

Table 2-4 Monthly Rainfall Records (Near Service Area)

Name of Station : Iloilo
Station Location : Iloilo City In-42-00 N Lon: 122-34-00 E

Month Total Year Dry Season Wet Season Dry Season Wet S Dry S. Annual Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec 1970 25.9 7.2 35.1 5.3 151.0 414.4 195.8 255.1 234.9 225.0 101.8 60.7 597.4 1.325.2 1,712.2 1,432,4 1971 9.2 4.1 5.6 84.0 94.2 168.8 352.3 182.4 42.6 301.3 77.4 110.5 398.3 1.047.4 1972 2,473.0 144.4 23.4 26.0 31.0 118.7 236.6 767.4 221.9 377.6 187.9 188.1 150.0 1.240.6 1.791.4 1973 3.5 20.5 2.0 12.5 120.2 392.6 533.9 480.9 272.3 483.5 702.2 1.799.9 2,483.6 0.0 161.7 1974 48.8 22.0 33.1 27.5 36.8 265.2 302.4 92.9 147.0 139.0 1.127.3 1.656.4 2,110.6 326.9 669.0 1975 130.5 85.7 11.1 144.9 147.1 378.5 99.5 253.6 297.7 328.2 51.4 119.5 1.544.7 1.357.5 2,047.7 1976 45.5 37.9 26.0 20.6 305.3 217.3 509.1 386.7 331.2 174.3 131.8 99.5 1,588. 2,285.2 1.618.6 1977 38.7 60.4 21.0 0.0 8.1 247.5 224.3 281.0 545.4 73.6 77.0 21.5 1,413.7 1,371.8 1,598.5 1978 26.2 9.1 3.8 131.4 150.1 131.6 503.6 320.8 252.7 162.6 533.2 1,358.8 1,870.3 66.8 111.6 1979 12.5 17.7 0.0 125.3 97.0 129.5 501.5 667.4 207.6 706.4 118.6 255.4 608.8 2,212.4 2,838.9 1980 21.5 73.2 74.8 19.9 44.9 163.4 220.8 206.6 316.9 363.8 203.4 94.3 5,859.4 1,271.5 1,803.5 1981 30.3 5.8 7.6 80.4 30.6 423.1 203.0 328.8 283.8 117.1 127.1 84.7 397.2 1,355.8 1,722.3 1982 15.3 2.0 151.8 60.0 158.0 396.0 285.4 668.1 380.3 215.6 53.4 9.9 600.2 1.945.4 2.395.8 1983 72.4 5.0 31.2 2.4 9.4 247.5 278.5 350.2 284.9 627.2 1.811.9 181.7 246.6 102.1 1.304.5 1984 32.3 64.6 97.0 66.8 109.5 508.6 391.6 505.8 411.5 515.8 365.9 72.3 6.913.0 2.333.3 3,141.7 1985 37.9 54.1 35.4 271.4 341.7 470.2 182.7 2,552.9 2,432.4 267.6 59.2 460.1 161.7 90.4 1.705. 2,459.8 1986 40.2 15.3 51.5 49.2 70.4 254.2 300.8 892.4 257.5 182.4 248.5 97.4 1.293.7 1,887.3 5.7 1987 30.1 12.0 1.0 41.9 162.4 452.7 224.5 517.0 512.0 212.3 21.8 323.8 1,868.6 2,193.4 1988 13.7 13.3 13.1 85.2 197.6 483.0 323.5 264.9 272.7 561.6 312.7 39.4 822.8 1,905.7 2,580.7 1989 94.1 32.0 58.8 68.7 253.5 323.5 308.5 672.7 160.0 138.2 37.4 8.8 2,344. 1,602.9 2,156.2 1990 15.1 0.6 8.0 9.1 262.1 602.2 182.0 124.6 819.5 22.7 1,133.3 1,701.5 2,838.6 326.6 466.1 1991 3.1 20.0 48.4 26.4 8.2 357.9 371.5 709.3 76.7 94.1 123.4 37.8 1,166.9 1,609.5 1,876.8 1992 5.9 0.0 3.0 48.8 337.6 226.6 449.2 190.1 224.4 188.2 74.4 1,427.9 1,749.8 1.6 316.0 1993 17.6 5.5 49.9 47.4 175.5 287.3 120.7 320.1 816.7 1,443.2 2,040.8 26.0 540.1 319.6 131.1 465.2 1994 40.8 56.1 34.8 226.4 348.2 986.9 232.1 293.1 218.8 40.0 131.8 2,739.5 2,196.1 3,074.2 1995 36.6 10.4 5.3 12.2 36.2 320.4 345.6 314.3 743.4 443.3 150.4 119.6 410.1 2,167.0 2,537.7 1996 75.1 65.1 250.5 279.5 127.3 274.8 224.8 85.7 350.1 243.9 376.8 180.8 17,347.1 1.179.3 2.534.4 39.4 27.0 70.1 105.8 304.4 342.6 393.1 302.9 303.1 198.0 103.3 2.052.5 2,229.7 Mean 40.1 1,646.1 144.4 85.7 250.5 279.5 348.2 602.2 986.9 743.4 320.1 17,347.1 2.333.3 892.4 706.4 819.5 3,141.7 Max. 0.0 0.0 0.0 73.6 37.4 8.8 316.0 1.047.4 Min. 1.6 0.6 120.2 99.5 85.7 42.6 1,432.4 Nov. - May Wet Season June - Oct Dry Season

(unit: mm/month)

Data Source: PAGASA, Iloilo and NIA Region VI Office

Note: Zero (0) figures in the column of annual total should be erased in the lines with no data available.

Table 2-5 Monthly Rainfall Records (in Drainage Area/Diversion Site) (tabulated in case data in Table2-4 are not available)

Name of Station:			
Station Location:	Lat:	Lon:	
•	•		

							2	Lon.		2				(unit : mm/n	nonth)
						Mo	nth							Total	Ť
Year		F.1			37	· 1			α .	0		-	Dry S.	Wet. S	Annual
1000	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	·		0.0
1980 1981															0.0
															0.0
1982 1983															0.0
1983															0.0
1984															0.0
1985															0.0
1987															0.0
1988															0.0
1989															0.0
1990															0.0
1991															0.0
1992															0.0
1993															0.0
1994															0.0
1995															0.0
1996															0.0
1997															0.0
1998															0.0
1999															0.0
2000															0.0
2001															0.0
2002															0.0
2003															0.0
2004															0.0
2005															0.0
Mean	#DIV/0!	0.0													
Max.	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Min.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Data Source :

Figure 2-1 Typical Cropping Pattern of Paddy

(Dry Season)

Month				О	ct.				Nov	•			D	ec				Jan.				Fe	b.			M	ar.			A	pr.	
Date			1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25	1	8	15	22	29	6	13	20
Date			7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26
Week			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			/	LS/	LP			NOI	RMA	L IR	RGA	TIOI	N PE	RIO	D 				TD	/H												

(Wet Season)

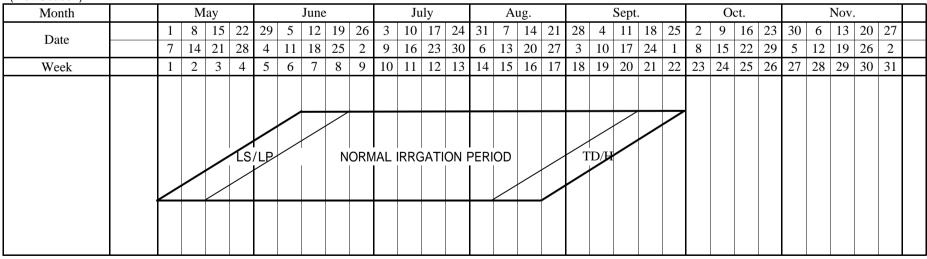


Table 2-6 Firm-Up Service Area, Program Area, Irrigated and Benefited Areas

	Firm Un				Dry Season	1								Wet Seasor	1			
<b>3</b> 7	Firm-Up	Program	Irrigated	d Area (	ha)	Benef	fited Are	a (ha)	Average	Program		Irrigated	d Area (	ha)	Benef	fited Are	a (ha)	Average
Year	Service Area (ha)	Area (ha)	Paddy Upland	Total	Cropping Intensity (%)	Paddy	Upland	Total	Yield (ton/ha)	Area (ha)	Paddy	Upland	Total	Cropping Intensity (%)	Paddy	Upland	Total	Yield (ton/ha)
1994	3,399	2,000	2,185	2,185	64.3	2,182		2,182		3,170	3,116		3,116	91.7	3,116		3,116	
1995	3,399	2,100	1,797	1,797	52.9	1,722		1,722		3,210	3,040		3,040	89.4	3,057		3,057	
1996	3,399	2,500	2,255	2,255	66.3	2,255		2,255		3,230	2,715		2,715	79.9	2,715		2,715	
1997	3,399	2,500	2,225	2,225	65.5	2,216		2,216	4.55	3,230	2,786		2,786	82.0	2,786		2,786	
1998	3,399	2,000	1,805	1,805	53.1	722		722	3.95	3,230	1,675		1,675	49.3	1,636		1,636	
1999	2,922	2,035	2,423	2,423	82.9	2,136		2,136		2,660	2,676		2,676	91.6	2,676		2,676	
2000	2,922	2,035	2,423	2,423	82.9	2,423		2,423		2,921	2,749		2,749	94.1	2,749		2,749	
2001	2,971	2,000	2,000	2,000	67.3	2,000		2,000		2,853	2,853		2,853	96.0	2,853		2,853	
2002	2,971	2,500	1,800	1,800	60.6	1,630		1,630		2,850	2,699		2,699	90.8	2,699		2,699	
2003	3,045	2,579	1,800	1,800	59.1	1,630		1,630		2,971	2,630		2,630	86.4	2,597		2,597	
2004	3,045	2,579	2,579	2,579	84.7	2,004		2,004		2,957	2,704		2,704	88.8	2,670		2,670	
2005	3,061	2,208	2,047	2,047	66.9	1,841		1,841		3,027	2,669		2,669	87.2	2,387		2,387	
2006	3,062	2,244	1,749	1,749	57.1	1,494		1,494		3,062	567		567	18.5	0		0	
Ave.	3,153	2,252	2,084 #DIV/0!	2,084	66.4	1,866	#DIV/0!	1,866	4.25	3,029	2,529	#DIV/0!	2,529	80.4	2,457	#DIV/0!	2,457	#DIV/0!
Max.	3,399	2,579	2,579 0	2,579	84.7	2,423	0		4.55	3,230	3,116		3,116	96.0	3,116		3,116	0.00
Min.	2,922	2,000	1,749 0	1,749	52.9	722			3.95	2,660	567		567	18.5	0		0	0.00

Data Source :

IV. Functionality Information of Irrig	ation and Drainage Facil	ities	
4.1 Diversion Dam			
A. Dimension Survey			
A.1 General Information			
(1) Name of NIS	Aganan RIS	(6) Irrigation Service Area	4,467 ha
(2) Name of Responsible Center	ASBRIS Office	(7) Name of River	Aganan River
(3) Name of Diversion Dam	Aganan Diversion Dam	(8) Water Right Status	Operational m3/s
(4) Completed Year	Jan. 1925	(9) Name of Water Right Holder	NIA
(5) Construction Cost	A/D Pesos	(10) No. of IA (active)	6
(11) Location of Diversion Dam		( , , , , , , , , , , , , , , , , , , ,	
Region	Region VI	Province	Iloilo
Municipality	San Miguel	Barangay	Igtambo
(12) Type of Weir	1 Fixed Type,		ated Type,
(12) Type of Wen	o Others: Please describe be		ntou Typo,
	None	10 W.	
(13) Purpose of Water Use	1 Irrigation, 0	Industry, 0 Dr	rinking, 0 Hydro-power,
(13) Turpose of Water Cisc	0 Flood Control, 0	,,	eisure.
A.2 Hydrology	o rioda Control, o	risii Oultuic, To Lo	75010,
(1) Annual Average Rainfall	2,948 mm	(8) Total Wedth of Diversion	on Dam 81.50 m
(2) Name of Rainfall Observation Station	Aganan Dam Rain Gage	(9) Max. Flood Discharge	830 m3/s
` '	ě ě		
(3) Catchment Area at Intake	104 km2	(10) Average Discharge (W	
(4) Riverbed Elevation in front of Intake		(11) Average Discharge (Di	•
(5) Riverbed Elevation (Upstream)	36.21 EL	(12) Peak Intake Discharge	8.25 m3/s
(6) Riverbed Elevation (Downstream)	27.85 EL	(13) Average Intake Discha	
(7) Max. Flood Water Level (Upstream)	39.51 EL	(14) Average Intake Discha	
(15) Foundation	0 Rock,		verbed Material,
	o Others: Please describ	be below.	
(16) Riverbed Material	1 Boulder,	0 Cobblestone, 1	Gravel, 1 Sand,
	0 Silt,	0 Clay,	
(17) Max. Diameter of Riverbed Materia	d 300 mm		
(18) Sedimentation	1 Severe,	0 Moderate, 0	None,
(19) Countermeasure for Sedimentation	1 Sluice Way,	0 Sedimant Settling Basin, 0	Sediment Scouring Facility,
	o Others: Please describ	be below.	
	None		
(20) Watershed Condition	0 Good,	1 Moderate,	0 No Good,
(21) Watershed Management	0 Undertaken with C	Freat Care, 1	Undertaken Moderately,
	0 None,		-
(22) Scoured at Downstream	1 Severe,	0 Moderate,	0 None,
		<u>,                                      </u>	
B. Facility Functional Survey			
(1) General Facility Function	0 Excellent function.	1 Good function,	0 Moderate function,
(=) = =================================	0 Poor function	0 Damaged functio	
(2) Reservoir Dam Function	0 Excellent function		0 Moderate function,
(2) Reservoir Built I unedoir	0 Poor function	0 Damaged function	
(3) Diversion Dam Function	0 Excellent function.		0 Moderate function,
(3) Diversion Dam Function	0 Poor function	0 Damaged function	
(4) Pumping Station Function			
(4) Pumping Station Function			
(C)M: C 1F (	0 Poor function	Damaged function     Conditionation	
(5) Main Canal Function	0 Excellent function		1 Moderate function,
	0 Poor function	0 Damaged functio	
(6) Lateral Canal Function	0 Excellent function.		1 <u>Moderate function</u> ,
	0 Poor function	0 Damaged functio	
(7) Related Facility Function	Excellent function.		0 Moderate function,
	0 Poor function	0 Damaged function	n,,

C. Present Structural Situation of Spillway							
Choose Spillway Type	1	C-1: Fi	xed Type,		0	C-2: Gated Type	
C.1 Fixed Type							
C.1.1 Structure of Fixed Weir							
(1) Shape of Weir	1	Ogee					
			ease describe be	low.			
	None						
(2) Major Material of Fixed Weir	1		rced Concrete		0	Plain Concrete	
	0		Masonry		0	Rockfilled Concrete	Cover
			ease describe be	low.			
(3) Crest Elevation	None	36.21	In	(6) Valuma at	Wai	" Dody	1,930 m3
(4) Weir Height		5.81	4	(6) Volume of (7) Upstream			<del></del>
(5) Weir Width		75.40	1	(8) Downstrea			1:0.0 1:1.0
C.1.2 Condition of Fixed Weir Body		73.40	<u> </u>	(o) Downsucc	111 51	орс	1.1.0
(9) Crack	0	Severe,		0 Modera	te	1 1	lone,
() Clack	-		ease comment b		ιο,	1 1	vone,
	None		case comment b	ciow.			
(10) Deformation	0	Severe,		0 Modera	te.	1 1	lone,
(,	o O		ease comment b		,		
	None	e					
(11) Leak		Severe,		0 Modera	te,	1 N	lone,
			ease comment b	elow.			
(12) Abrosion	None	Severe,		0 Modoro	ŧ o	I 1 I N	lono
(12) Abrasion			ease comment b	0 Modera	ie,	1 N	lone,
	None		case comment b	CIOW.			
(13) Sedimentation		Severe,		0 Modera	te,	0 N	lone,
	o O	thers: Ple	ease comment b	elow.			
	None						
(14) Other Damage			cribe below.				
G 1 2 G/ / PD	None	e					
C.1.3 Structure of Downstream Apron							
		TO' 1 DD	( 1)		-		1 1 1 2.5
(15) Type of Downstream Apron	0		ype (on rock)	1	1	Floating Type (on riv	erbed deposit)
(15) Type of Downstream Apron	o O	thers: Ple	ype (on rock) ease describe be	low.	1	Floating Type (on riv	erbed deposit)
	o O None	thers: Ple	ease describe be	low.			erbed deposit)
(15) Type of Downstream Apron  (16) Major Material of D/S Apron	o O	others: Ple e Reinfor	ease describe be	low.	0	Plain Concrete	
	o O None 1	thers: Ple e Reinfor Rubble	ease describe be ced Concrete Masonry				
	o O None 1 0	Reinfor Rubble thers: Ple	ease describe be		0	Plain Concrete	
(16) Major Material of D/S Apron	o O None 1	Reinfor Rubble thers: Ple	ease describe be reed Concrete Masonry ease describe be	low.	0	Plain Concrete Rockfilled Concrete	Cover
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron	o O None 1 0	Reinfor Rubble thers: Ple e 27.85	rease describe be reced Concrete  Masonry rease describe be	low. (20) Min. Thi	0 0	Plain Concrete Rockfilled Concrete	Cover 0.30 m
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron	o O None 1 0	Reinfor Rubble Others: Plee 27.85 52.00	ced Concrete Masonry case describe be EL	low. (20) Min. Thic (21) Depth of	0 0 0 cknes	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile)	0.30 m 6.00 m
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron	o O None 1 0	Reinfor Rubble thers: Ple e 27.85	ced Concrete Masonry case describe be EL	low. (20) Min. Thi	0 0 0 cknes	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile)	Cover 0.30 m
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron	o O None 1 0 o O None	Reinfor Rubble Others: Plee 27.85 52.00	ced Concrete Masonry case describe be EL	low. (20) Min. Thi (21) Depth of (22) Downstre	0 0 0 cknes	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile)	0.30 m 6.00 m
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron	o O None 1 0 o O None  1 0 0	Reinfor Rubble thers: Ple 27.85 52.00 1.10	ced Concrete Masonry case describe be EL	low. (20) Min. Thi (21) Depth of (22) Downstre	0 0 0 cknes	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile)	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron	o O None 1 0 o O None  1 0 0	Reinfor Rubble htters: Ple 27.85 52.00 1.10 Severe,	case describe be code Concrete  Masonry case describe be EL m	low. (20) Min. Thi (21) Depth of (22) Downstre	0 0 0 cknes	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile)	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron	o O None  1 0 None  O None  O None	Reinfor Rubble htters: Ple 27.85 52.00 1.10 Severe,	case describe be code Concrete  Masonry case describe be EL m	low. (20) Min. Thi (21) Depth of (22) Downstre	0 0 D/S	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack	O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple	case describe be code Concrete  Masonry case describe be EL m	low. (20) Min. Thic (21) Depth of (22) Downstre  0 Modera elow.	0 0 D/S	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	O O None	Reinfor Rubble thers: Ple	case describe be concered Concrete Masonry case describe be EL m m case comment b	low. (20) Min. Thic (21) Depth of (22) Downstre  0 Modera elow.  0 Modera	0 0 0 D/S tkness D/S tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack	O O None  O O O None  O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	case describe be conceded Concrete Masonry case describe be EL m m m case comment becase comment because comm	low. (20) Min. Thic (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.	0 0 0 D/S tkness D/S tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	0 O None  0 O O None  0 O O None  0 O O None  0 O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple	case describe be concered Concrete Masonry case describe be EL m m case comment b	low. (20) Min. Thic (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.	0 0 0 D/S tkness D/S tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	O O None  O O O None	Reinfor Rubble thers: Ple	case describe be conceded Concrete Masonry case describe be EL m m m case comment becase comment because comm	low.  (20) Min. Thic (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	O O O None  O O O None  O O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	case describe be conceded Concrete Masonry case describe be EL m m m case comment becase comment because comm	low.  (20) Min. This (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	O O O None  O O O None  O O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple	case describe be ceed Concrete Masonry case describe be EL m m case comment b	low.  (20) Min. This (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation	O O O None  O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	ease describe be  ced Concrete  Masonry ease describe be  EL  m  m  ease comment b  ease comment b  ease comment b	low.  (20) Min. Thi (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plain Concrete Rockfilled Concrete  ss of D/S Apron Cut-off (sheet pile)  1 N  1 N  0 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation  (25) Leak  (26) Abrasion	0 O None  0 O None  0 O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	case describe be ceed Concrete Masonry case describe be EL m m case comment b	low.  (20) Min. Thi (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plain Concrete Rockfilled Concrete  ss of D/S Apron Cut-off (sheet pile)  1 N  1 N  0 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation  (25) Leak  (26) Abrasion	O O O None  O O O None  O O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	ease describe be  ced Concrete  Masonry ease describe be  EL  m  m  ease comment b  ease comment b  ease comment b	low.  (20) Min. This (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.  1 Modera elow.	0 0 0 D/S (seam State, tte, tte, tte, tte, tte, tte, tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N 1 N 0 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation  (25) Leak  (26) Abrasion	0 O None  0 O None  0 O O None  0 O O None  0 O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	ease describe be  ced Concrete  Masonry ease describe be  EL  m  m  ease comment b  ease comment b  ease comment b  ease comment b	low.  (20) Min. Thi (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.  1 Modera elow.  0 Modera	0 0 0 D/S (seam State, tte, tte, tte, tte, tte, tte, tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N 1 N 0 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation  (25) Leak  (26) Abrasion	O O None  O O O None  O O O None  O O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	ease describe be  ced Concrete  Masonry ease describe be  EL  m  m  ease comment b  ease comment b  ease comment b	low.  (20) Min. Thi (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.  1 Modera elow.  0 Modera	0 0 0 D/S (seam State, tte, tte, tte, tte, tte, tte, tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N 1 N 0 N	0.30 m 6.00 m 1:10.0
(16) Major Material of D/S Apron  (17) Elevation at End of D/S Apron  (18) Length of D/S Apron  (19) Max. Thickness of D/S Apron  C.1.4 Condition of Downstream Apron  (23) Crack  (24) Deformation  (25) Leak  (26) Abrasion	O O None  O O O None  O O O None  O O O O O O O O O O O O O O O O O O O	Reinfor Rubble thers: Ple thers:	ease describe be  ced Concrete  Masonry ease describe be  EL  m  m  ease comment b  ease comment b  ease comment b  ease comment b	low.  (20) Min. Thi (21) Depth of (22) Downstre  0 Modera elow.  0 Modera elow.  1 Modera elow.  1 Modera elow.  0 Modera	0 0 0 D/S (seam State, tte, tte, tte, tte, tte, tte, tte,	Plain Concrete Rockfilled Concrete ss of D/S Apron Cut-off (sheet pile) Slope  1 N 1 N 0 N	0.30 m 6.00 m 1:10.0

C.1.5 Structure of Downstream Riverbed	Protection							
(30) Type of D/S Riverbed Protection	1 Concret	e Block			0 Boulder			
	o Others: Ple	ase describe be	low.					
	None							
(31) Top Elev. of D/S Riverbed Protection	28.15		(33)	Weight o	of D/S Riverbed Pro	tection		1.90 ton
(32) Length of D/S Riverbed Protection	50.00	m						
C.1.6 Condition of Downstream Riverbed	Protection							
(34) Crack	0 Severe,		1	Modera	<u>te,</u>	0 No	one,	
		ase comment b	elow.					
	None					T 1		
(35) Deformation	0 Severe,	. 1	1	Modera	<u>te,</u>	0 No	one,	
	None	ase comment b	eiow.					
(36) Abrasion	0 Severe,		1	Modera	te	0 No	one,	
(60) 1161461311		ase comment b			101	0	,	
	None							
(37) Scoured	0 Severe,		1	Modera	te,	0 No	one,	
		ase comment b	elow.					
(20) G. I'	None		1	Madana		I o I N		
(38) Sedimentation	0 Severe,	ase comment b	1	Modera	<u>te,</u>	0 No	one,	
	None	ase comment b	eiow.	•				
(39) Other Damage	o Please desc	cribe below.						
(e) / eg	None							
C.2 Gated Type								
C.2.1 Structure of Spillway Pier								
(1) Material of Spillway Pier	0 Reinford	ed Concrete			0 Plain Concre	te		
( )	0 Rubble l				0 Rockfilled C		over /	/
		ase describe be	low.		<u></u>		-/-	
							/	
(2) Gate Sill Elevation of Spillway		EL	(4) F	Height of	Spillway Pier			m
(3) No. of Spillway Pier		pc.	(5) T	Thickness	of Spillway Pier	/		m
C.2.2 Condition of Spillway Pier								
(6) Crack	0 Severe,		0	Modera	te,	0 No	one,	
	o Others: Ple	ase comment b	elow.					
(7) Deformation	0 Severe,		0	Modera	te,	0 No	one,	
	Q Others: Ple	ase comment b	elow.	/	,			
(0) I I			0	VA a da na		LOLNI		
(8) Leak	0 Severe,	ase comment b		Modera	te,	0 No	one,	
	o oniers. The	ase comment b	Ziyw.	•				
(9) Abrasion	0 Severe,		0	Modera	te.	0 No	one,	
(*)************************************		ase comment b					,	
(10) Other Damage	o Please desc	ribe below.						
			$\overline{}$					
C.2.3 Structure of Spillway Downstream A								
(11) Type of Downstream Apron		ype (on rock)		$\overline{}$	0 Floating Typ	e (on rive	rbed der	oosit)
	Others: Ple	ase describe be	low.					
(12) Major Material of D/S Apron	0 Reinford	ed Concrete			0 Plain Concre			
	0 Rubble I				0 Rockfilled C	oncrete C	over	
	o Others: Ple	ase describe be	low.					
		I					Г	1
(13) Elevation at End of D/S Apron		EL			ckness of D/S Apro	$\overline{}$		m
(14) Length of D/S Apron		m			D/S Off-off (sheet	pile)		m
(15) Max. Thickness of D/S Apron	<u> </u>	m	(18)	Downstr	eam Slope		<u> </u>	
C.2.4 Condition of Spillway Downstream			-				$\overline{}$	
(19) Crack	0 Severe,		0	Modera	te,	0 No	one, \	
	o Others: Ple	ase comment b	elow.					$\overline{}$
								$\overline{}$

(20) Deformation	0 Severe,	ease comment b	0 elow	Moderate,	0 No	ne,
	0 Oulers. 110	ease comment t	ciow	•		
(21) Leak	0 Severe,		0	Moderate,	0 No	ne,
	o Others: Pl	ease comment b	elow			
(20) 11	0.1.0				Lolv	
(22) Abrasion	0 Severe,	ease comment b	0 elow	Moderate,	0 No	ne, /
	o oulcis. i i	case comment t	CIOW	•		/
(23) Sedimentation	0 Severe,		0	Moderate,	0 Nø	ne,
	o Others: Ple	ease comment b	elow			
(24) Scoured	0 Severe,	ease comment b	0		Ø No	ne,
	0 Ouleis. Fi	ease comment t	eiow	·	/	
(25) Other Damage	o Please des	cribe below.				
C.2.5 Structure of Spillway Downstream I	Riverbed Prot	ection				
(26) Type of D/S Riverbed Protection	0 Concre	te Block		0 Bøulder		
	o Others: Ple	ease describe be	elow.			
		_		/	•	
(27) Top Elevation of D/S Protection		EL	(29)	Weight of D/S Riverbed Pro	otection	ton
(28) Length of D/S Riverbed Protection	<u> </u>	m				
C.2.6 Condition of Spillway Downstream		ection			<del></del>	
(30) Washed away	0 Severe,		0	Møderate,	0 No	ne,
	o Others: Pl	ease comment b	elow	./		
(21) 0 1			<del>. /</del> 1	Madagata	LOLNE	
(31) Scoured	0 Severe,	ase comment b	ZO Zlovy	Moderate,	0 No	ne,
	o others. Th	case comment of	CIO W	•		
(32) Crack	0 Severe,		0	Moderate,	0 No	ne,
	o Others: Ple	ease comment b	elow			
		$\overline{}$				
(33) Abrasion	0 Severe,	ease comment b	0	Moderate,	0 No	ne,
	o Others: Pi	ease comment	elow	·		
(34) Sedimentation	0 Severe,		0	Moderate,	0 No	ne.
(* )		ease comment b	elow	•		- /
(35) Other Damage	o Please des	cribe below.				
	<u> </u>					
C.2.7 Structure of Spillway Gate				2 " 4	<u> </u>	
(36) Type of Spillway Gate	0 Slide C		0	Roller Gate,	0 Rul	ober Gate,
		ase describe be		, radial, sector, drum),		
	o oulcis. Th	case describe be	710 W.			
(37) Material of Spillway Gate	0 Iron,		0	Stainless,	0 Ru	bber,
		ease describe be	elow.			
(38) No. of Spillway Gates installed		sets	(40)	Spillway Gate Height		m
(39) No. of Spillway Gates functioning		sets	(41)	Spillway Gate Width (each)		m
C.2.8 Condition of Spillway Gate					$\overline{}$	
(41) Rust	0 Severe,		0	Moderate,	0 No	ne,
/	o Others: Pl	ease comment b	elow			
(42) Deformation	0 Severe,		0	Moderate,	0 No	nie,
	o Others: Pl	ease comment b	elow			
(43) Leak	0 Severe,		0	Moderate,	0 No	ne
(+5) Lyak		ease comment b			U NO	110,
(A4) Other Damage	o Please des	cribe below.				
/						
/						\

C 2 0 C-31 C-4- O D								
C.2.9 Spillway Gate Operating Device		G : 11			D.II	\\ <i>I</i> ''	ο Δ.	(D. I.I O. (2)
(45) Type of Operating Device	0	Spindle		0	Roller +		0 Ai	ir (Rubber Gate),
	0		Rubber Gate),	0	Hinge +	· Wire,		
	0 (	otners: Pie	ease describe be	elow.				/
(40.14 ) 1 (0.14 )		-			a		_/	
(46) Material of Operating Device	0	Iron,		0	Stainles	s,		
	0 (	Others: Ple	ease describe be	elow.				
			•	т				
(47) No. of Devices			sets		Device L			m
(48) No. of Devices functioning			sets	(50)	Device C	apacity		kw
(51) Power of Operating Device	9	Manpov				0 Diesel Engin	e (permai	nent),
	0	Diesel I	Engine (mobile)	, ,		0 Motor (Elect	ricity),	
	0 (	Others: Ph	ease describe be	low.				
(52) Supplementary Power	0	There is						
	0	None	$\overline{}$	\				
C.2.10 Condition of Operating Device								
(53) Rust	0,	Severe,		0	Modera	te,	0 No	one,
	60	Others: Ple	ease comment b	elow				
(54) Deformation	0	Severe,		0	Modera	te.	0 No	one,
(6.7, 2.2.2	0 (		ease comment b			,		,
(55) Function	0	Good,		0	Operati	onal,	0 N	o Good,
	0 (	Others: Ple	ease comment b	elow				
(56) Other Damage	o F	lease des	cribe below.					
D. Present Structural Situation of Sluice Wa	y							
(1) Sluice Way (civil work)	1	There is	or are.	0	None,			
If there is or are sluice way, fill following.								
D.1 Sluice Way (civil work)								
D.1.1 Structure of Sluice Way								
(1) Type of Sluice Way for flushing	0	o Super	critical Flow T	уpe,		1 o Subcritical	Flow Typ	<u>)e,</u>
	0 (	Others: Ple	ease describe be	elow.				
	Non	e						
(2) Material Sluice Way (civil work)	1	Reinfor	ced Concrete			0 Plain Concre	te	
	0	Rubble	Masonry			0 Rockfilled Co	oncrete C	lover
	0 (	Others: Ple	ease describe be	elow.				
	Non	e						
(3) Sill Elevation of Sluice Way		33.35	EL	(5) U	Jpstream	Slope		Level
(4) Width of Sluice Way		51.00	m	(6) I	Downstrea	am Slope		Level
D.1.2 Condition of Sluice Way (civil work)								
(7) Crack	0	Severe,		0	Modera	te,	1 No	one,
	_	-	ease comment b					<del>-</del>
	Non							
(8) Deformation	0			0	Modera	te,	1 No	one,
(4) = 1			ease comment b			,		
	Non							
(9) Leak		Severe,		0	Modera	te,	1 No	one,
			ease comment b	elow				
	Non							
(10) Abrasion	0	Severe,		_1	<u>Modera</u>	<u>te,</u>	0 No	one,
	_		ease comment b	eiow	•			
(11) Sedimentation	Non 1	e Severe,		0	Modoro	tο	0 No	one
(11) Scumentation			ease comment b		Modera	ι <del>υ</del> ,	U INC	one,
	Non		comment t	W	-			
(12) Other Damage			cribe below.					
, , , , , , , , , , , , , , , , , , ,	Non							

D.1.3 Structure of Sluice Way Downstream	n Apron						
(13) Type of Downstream Apron	0 Fixed T	ype (on rock)		1	Floating Typ	e (on rive	rbed deposit)
	o Others: Ple	ease describe be	elow.				
	None						
(14) Major Material of D/S Apron	1 Reinfor	ced Concrete		0	Plain Concre	te	
	0 Rubble	Masonry		0	Rockfilled C	oncrete Co	over
	o Others: Ple	ease describe be	elow.				
	None						
(15) Elevation at End of D/S Apron	27.85	EL			ss of D/S Apro		0.30 m
(16) Total Length of D/S Apron	52.00	m			Off-off (sheet	pile)	6.00 m
(17) Max. Thickness of D/S Apron	1.10	m	(20) Downst	ream S	Slope		1:10.0
D.1.4 Condition of Sluice Way Downstream	m Apron						
(21) Crack	0 Severe,		0 Moder	ate,		1 No	ne,
	1	ease comment b	elow.				
	None					T T	
(22) Deformation	0 Severe,		1 Moder	ate,		0 No	one,
	h	ease comment b	elow.				
(23) Leak	None  0 Severe,		1 Moder	nto.		0 No	one,
(23) Leak		ease comment b		ale,		U INC	nie,
	None	ouse comment t	,c10 W.				
(24) Abrasion	0 Severe,		1 Moder	ate,		0 No	ne,
	o Others: Ple	ease comment b	elow.				
	None						
(25) Sedimentation	0 Severe,	ease comment b	0 Moder	ate,		1 No	ne,
	None	ease comment	below.				
(26) Scoured	0 Severe,		0 Moder	ate.		1 No	ne.
		ease comment b		,			
	None						
(27) Other Damage	o Please des	cribe below.					
	None						
D.1.5 Structure of Sluice Way Downstrear				٥	D 11		
D.1.5 Structure of Sluice Way Downstream (28) Type of D/S Riverbed Protection	1 Concret	e Block		0	Boulder		
	1 Concret o Others: Plo		elow.	0	Boulder		
(28) Type of D/S Riverbed Protection	1 Concret o Others: Plo None	e Block ease describe be				tection	1.90 ton
(28) Type of D/S Riverbed Protection (29) Top Elevation of D/S Protection	1 Concret o Others: Plo None 28.15	e Block ease describe be EL			Boulder S Riverbed Pro	tection	1.90 ton
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection	1 <u>Concret</u> o Others: Plo None 28.15 50.00	e Block ease describe be EL m				tection	1.90 ton
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream	o Others: Ple None 28.15 50.00 m Riverbed P	e Block ease describe be EL m	(31) Weight	of D/S			
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe,	e Block ease describe be EL m rotection	(31) Weight	of D/S			1.90 ton
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe,	e Block ease describe be EL m	(31) Weight	of D/S			
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream	1 Concret o Others: Ple None 28.15 50.00  m Riverbed P 0 Severe, o Others: Ple	e Block ease describe be EL m rotection	(31) Weight  1 Moder pelow.	of D/S		0 No	
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack	1 Concret o Others: Ple None  28.15  50.00  m Riverbed P 0 Severe, o Others: Ple None  0 Severe,	e Block ease describe be EL m rotection	(31) Weight  1 Moder elow.	of D/S		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None 0 Severe, o Others: Ple None	e Block ease describe be EL m rotection ease comment b	(31) Weight  1 Moder elow.  1 Moder elow.	of D/S ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None 0 Severe, o Others: Ple None 0 Severe, o Others: Ple None	EL m rotection  ease comment becase comment because commen	(31) Weight  1 Moder below.  1 Moder below.	of D/S ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation	1 Concret o Others: Ple None 28.15 50.00  m Riverbed P 0 Severe, o Others: Ple None 0 Severe, o Others: Ple None 0 Severe, o Others: Ple None 0 Severe, o Others: Ple	e Block ease describe be EL m rotection ease comment b	(31) Weight  1 Moder below.  1 Moder below.	of D/S ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EL m rotection  ease comment becase comment because commen	(31) Weight  1 Moder below.  1 Moder below.  1 Moder below.	of D/S ate, ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EL m rotection  ease comment becase comment because commen	1 Moder pelow.	of D/S ate, ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EL m ease comment becase comment because comme	1 Moder pelow.	of D/S ate, ate,		0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None 0 Others: Ple None	EL m ease comment becase comment because comme	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstrean  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 0 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstream  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None	EBlock ease describe be EL m rotection ease comment be	1 Moder below.  0 Moder below.	of D/S ate, ate,		0 No 0 No 1 No	one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstrean  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage  D.2 Sluice Way Pier  D.2.1 Structure of Sluice Way Pier	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None 1 Reinfor	EL m rotection  ease comment becase comment because comment	1 Moder pelow.  0 Moder pelow.	ate, ate, ate,	S Riverbed Pro	0 No 0 No 1 No	one, one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstrean  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage  D.2 Sluice Way Pier  D.2.1 Structure of Sluice Way Pier	1 Concret o Others: Ple None 28.15 50.00 m Riverbed P 0 Severe, o Others: Ple None 1 Reinfor 0 Rubble	EBlock ease describe be EL m rotection ease comment be ease co	1 Moder pelow.  0 Moder pelow.	ate, ate, ate,	S Riverbed Pro	0 No 0 No 1 No	one, one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstrean  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage  D.2 Sluice Way Pier  D.2.1 Structure of Sluice Way Pier	1 Concret o Others: Ple None 28.15 50.00  m Riverbed P 0 Severe, o Others: Ple None 1 Reinfor 0 Rubble o Others: Ple None	EBlock ease describe be EL m rotection ease comment be ease co	1 Moder pelow.  0 Moder pelow.	ate, ate, ate,	S Riverbed Pro	0 No 0 No 1 No	one, one, one, one,
(28) Type of D/S Riverbed Protection  (29) Top Elevation of D/S Protection  (30) Length of D/S Riverbed Protection  D.1.6 Condition of Sluice Way Downstrean  (32) Crack  (33) Deformation  (34) Abrasion  (35) Scoured at Downstream  (36) Sedimentation  (37) Other Damage  D.2 Sluice Way Pier  D.2.1 Structure of Sluice Way Pier	1 Concret o Others: Ple None 28.15 50.00  m Riverbed P 0 Severe, o Others: Ple None 1 Reinfor 0 Rubble o Others: Ple None	EL m rotection  ease comment becase	1 Moder pelow.  1 Moder pelow.  1 Moder pelow.  1 Moder pelow.  0 Moder pelow.	of D/S ate, ate, ate, ate, s of S	Plain Concre Rockfilled C	0 No 0 No 1 No	one, one, one, one,

D.2.2 Condition of Sluice Way Pier			
(6) Crack	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment	below.	
	None		
(7) Deformation	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment	below.	
(0) I I	None	O Madagata	I 1 I None
(8) Leak	Severe,     Others: Please comment	0 Moderate,	1 None,
	None	below.	
(9) Abrasion	0 Severe,	1 Moderate,	0 None,
(*)************************************	o Others: Please comment		
	None		
(10) Sedimentation	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment	below.	
40.01	None		
(11) Other Damage	o Please describe below.		
DAGI W. G.	None		
D.3 Sluice Way Gate			
D.3.1 Structure of Sluice Way Gate	0 011 0	1 Deller Octo	O Dathar Oats
(1) Type of Gate	0 Slide Gate,	1 Roller Gate,	0 Rubber Gate,
	o Others: Please describe	el. flap, radial, sector, drum),	
	None	below.	
(2) Maia a Matarial of Cata	1 Iron.	0 Stainless.	0 Rubber,
(2) Major Material of Gate		<u> </u>	0 Rubber,
	o Others: Please describe None	below.	
(2) N = C (2 + 1) 1		(5) C . H . L	2.00
(3) No. of Gates installed	1 sets	(5) Gate Height	2.90 m
(4) No. of Gates functioning	1 sets	(6) Gate Width (each)	4.60 m
D.3.2 Condition of Sluice Way Gate			
(7) Rust	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment	below.	
	None	1 1	
(8) Deformation	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment	below.	
(9) Leak	None 0 Severe.	1 Moderate,	0 None.
(9) Leak	o Others: Please comment		0 None,
	None	Delow.	
(10) Other Damage	o Please describe below.		
(10) 1000 - 1000	Rubber seal was damaged		
D.3.3 Operating Device of Sluice Way Gat			
(11) Type of Operating Device	0 Spindle,	1 Roller + Wire,	0 Air (Rubber Gate),
(11) Type of operating Device			o / (
	1 0 Water (Rubber Gate)	0 Hinge + Wire	
	Water (Rubber Gate)     Others: Please describe		
	o Others: Please describe  None		
(12) Material of Operating Device	o Others: Please describe None	below.	
(12) Material of Operating Device	o Others: Please describe None  1 Iron.	below.  0 Stainless,	
(12) Material of Operating Device	o Others: Please describe None	below.  0 Stainless,	
	o Others: Please describe  None  1Iron, o Others: Please describe  None	below.  0 Stainless, below.	1.45 m
(13) No. of Devices	o Others: Please describe  None  1 Iron, o Others: Please describe  None  1 sets	below.  0 Stainless, below.  (15) Device Length	1.45 m No Data kw
(13) No. of Devices (14) No. of Devices functioning	o Others: Please describe  None  1	below.  0 Stainless, below.  (15) Device Length (16) Device Capacity	No Data kw
(13) No. of Devices	o Others: Please describe  None  1	below.  0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel En	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning	o Others: Please describe  None  1	below.  O Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel English e), O Motor (El	No Data kw
(13) No. of Devices (14) No. of Devices functioning	o Others: Please describe  None  1	below.  O Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel English e), O Motor (El	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device	o Others: Please describe  None  1	below.  O Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel En e), 0 Motor (El below.	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning	o Others: Please describe  None  1	below.  O Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel En e), 0 Motor (El below.	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power	o Others: Please describe  None  1	below.  O Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel En e), 0 Motor (El below.	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power  D.3.4 Condition of Operating Device	o Others: Please describe  None  1	below.  0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel Enely, 0 Motor (Elebelow.	No Data kw gine (permanent), ectricity) ,
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power	o Others: Please describe  None  1	0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel Enely below.  1 Moderate,	No Data kw gine (permanent),
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power  D.3.4 Condition of Operating Device	o Others: Please describe  None  1	0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel Enely below.  1 Moderate,	No Data kw gine (permanent), ectricity) ,
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power  D.3.4 Condition of Operating Device	o Others: Please describe  None  1	0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel Enely below.  1 Moderate,	No Data kw gine (permanent), ectricity) ,
(13) No. of Devices (14) No. of Devices functioning (17) Power of Operating Device  (18) Supplementary Power  D.3.4 Condition of Operating Device	o Others: Please describe  None  1	0 Stainless, below.  (15) Device Length (16) Device Capacity  1 Diesel Enely below.  1 Moderate,	No Data kw gine (permanent), ectricity) ,

(20) Deformation	0	Severe,	1	Modera	te,	0 No	one,
	o C Non	Others: Please comment b	oelow	<u>'.                                    </u>			
(21) Function	Non 1	Good,	0	Operati	onal.	0 No	o Good.
(=-)	0 (	Others: Please comment b			,		,
(22) O.I. D.	Non						
(22) Other Damage	O F Non	Please describe below.					
	11011						
E. Present Structural Situation of Protection	ı Dik	e and Side-wall					
(1) Protection Dike (embankment)	1	There is or are.	0	None,			
(2) Protection Side-wall	1	There is or are.	0	None,			
If there is or are protection dike (s) and/or side.  E.1 Protection Dike (embankment)	de-wa	all (s), fill following.					
E.1.1 Structure of Protection Dike (emban	ıkme	nt) on the Left-bank					
(1) Material of Protection Dike	0	Sand,	0	Silt,		1 CI	lay,
(embankment)	0 (	Others: Please describe be	elow.				
	igspace						
(2) Lining of Protection Dike (embankment)		Reinforced Concrete L	ining		0 Plain Conci		
	0	Wet Stone Pitching Others: Please describe be	10111		0 Dry Stone I	Pitching	
	Gab		eiow.				
(3) Total Length	-	135.70 m	(5) I	River-side	Slope		1:1.5
(4) Average Height		5.50 m		Land-side			Level
E.1.2 Condition of Protection Dike (embar	ıkme						
(7) Crack	0	Severe,	1	Modera	te,	0 No	one,
	0 (	Others: Please comment b	oelow	<u>.                                    </u>			
(8) Deformation	0	Severe,	1	Modera	te.	0 No	one,
(6) 2 5101111111011		Others: Please comment b	elow		101	<u> </u>	,
						Lala	
(9) Leak	0	Severe, Others: Please comment b	elow	<u>Modera</u>	<u>te,</u>	0 No	one,
		Sincipi I louge comment	, ,				
(10) Scoured	0	Severe,	0	Modera	te,	1 No	one,
	o C Non	Others: Please comment by	below	<u>'.                                    </u>			
(11) Other Damage		Please describe below.					
	Non	ie					
E.1.3 Structure of Protection Dike (emban (12) Material of Protection Dike			0	a			
(embankment)	0	Sand, Others: Please describe be	0	Silt,		0 CI	lay,
(cincumino)		omers. Flease describe be	eiow.				/
(13) Lining of Protection Dike	0	Reinforced Concrete L	ining		0 Plain Conci	rete Lining	
(embankment)	0	Wet Stone Pitching			0 Dry Stone I		
	0 (	Others: Please describe be	elow.				
(10.77.111	-		(1.6)	D: :1			
(14) Total Length (15) Average Height		m m		River-sid			
E.1.4 Condition of Protection Dike (emban	nkme		(17)	Lard-sid	e stope		<u> </u>
(18) Crack	0	Severe,	0	Modera	te,	0 No	one,
	o (	Others: Please comment b	elow			-	
	<u> </u>		_			- I - I	
(19) Deformation	0	Severe, Others: Please comment b	b olov	Modera	te,	0 No	one,
		outers. 1 tease comment (	CIOW				
(20) Leak	0	Severe,	0	Modera	te,	0 No	one,
	0 (	Others: Please comment b	oelow	'			
(21) Scoured	0	Severe,	0	Modera	te.	V <sub>0</sub> N <sub>0</sub>	one,
(21) 5000000		Others: Please comment b			••,		
(22) Other Demace	_ T	Dlagga dagariba I1					
(22) Other Damage	O F	Please describe below.					

E.2 Protection Side-wall							
E.2.1 Structure of Protection Side-wall on	$\overline{}$			_			/
(1) Mainly Tape of Protection Side-wall		Masonry		0	Gravity type,		ntilever type,
			-T type,	0	L type,	0 Bı	utress type,
		ers: Ple	ase describe be	elow.			
	None					<del>/</del>	
(2) Mainly Material of Protection Side-wall	0 F	Reinford	ed Concrete,	0	Plain Concrete,	0 S	one,
	o Oth	ers: Ple	ase describe be	elow.			
(3) Total Length			m	(5) I	River-side Slope		
(4) Average Height			m				
E.2.2 Condition of Protection Side-wall on	the Le	ft-bank	\ /				
(6) Washed away	0 5	Severe,	$\times$	0	Moderate,	0 N	one,
	o Oth	ers: Ple	ase comment	elow			
				$\overline{}$			
(7) Scoured	0.5	Severe,		0	Moderate,	0 N	one,
(','			ase comment b	elow			,
	None						
(8) Deformation	0 5	Severe,		0	Moderate,	0 N	one,
	o Oth	ers: Ple	ase comment l	elow			
	None						
(9) Crack		Severe,		0	Moderate,	0 1	one,
	o Oth	ers: Ple	ase comment b	elow	•		
(10) Other Damage	o Plea	ase desc	ribe below.				
E.2.3 Structure of Protection Side-wall on	the Rig	ght-ban	k				
(11) Mainly Tape of Protection Side-wall	0 1	Masonry	type,	0	Gravity type,	1 C	antilever type ,
	0 R	eversed	-T type,	0	L type,	0 B	uttress type,
	o Oth	ers: Ple	ase describe b	elow.			
	None						
(12) Material of Protection Side-wall	1 F	Reinford	ed Concrete,	0	Plain Concrete,	0 S	one,
( )			ase describe be	elow.			,
	None						
(13) Total Length		141.50	m	(15)	River-side Slope		1:1.5
(14) Average Height		6.25		` /	Land-side Slope		Level
E.2.4 Condition of Protection Side-wall on	the Di		!	(10)	Land Side Slope		<u> </u>
(17) Washed away		Severe,	IK.	0	Moderate,	1 N	one,
(17) Washed away	-		ase comment b		,	1 1	one,
	None	ieis. Fie	ase comment	Jeiow			
(10) G 1		,		0	Moderate.	1 1	
(18) Scoured		Severe,	ase comment b	0	,	1 N	one,
	None	1015. 1 10	ase comment t	Jeiow	·		
(19) Deformation		Severe.		1	Moderate,	0 N	one.
(17) Beformation		,	ase comment b	elow		0 1	ono,
	None						
(20) Crack		Severe,		0	Moderate,	1 N	one,
	o Oth	ers: Ple	ase comment b	elow		-	
	None						
(21) Other Damage	o Plea	ase desc	ribe below.				
	None						
F. Present Structural Situation of Fish Ladd	ler						
(1) Fish Ladder	0 7	There is	or are.	1	None,		
	fill follo	wina			<del></del>		
If there is or are sediment settling basin (s), the Structure of Fish Loddon	1111 10110	willg.					
F.1 Structure of Fish Ladder	Α.	.c · ·		^	Conton	0 5	tabé aid:
(1) Location of Fish Ladder		_eft side		0	Center,		ight side,
		Both sid	-	0	Center and both sides		
(2) Material of Fish Ladder			ed Concrete		0 Plain C	Concrete	
		$\overline{}$	Masomy				
	<del>o Oth</del>	iers: Ple	ase describe b	elow.			
			1				1
(3) No. of Fish Ladder	<u> </u>		sets	+	Depth of Fish Ladder		m
(4) Length of Fish Ladder	1		m	(6) V	Width of Fish Ladder		m

F.2 Function and Condition of Fish Ladder			
(7) Fish Ladder Function	0 Excellent function,	0 Good function,	0 Moderate function,
	0 Poor function	0 Damaged function,,	
(8) Crack	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	pelow.	
(9) Deformation	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment l	pelow.	
(10) Leak	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	below.	
(11) Sedimentation	0 Severe,	0 Moderate,	0 None,
(11) Sedimon	o Others: Please comment b		
GPresent Structural Situation of Intake			
G.1 Intake			
G.1.1 Structure of Intake			
(1) Location of Intake	0 Left-side,	1 Right-side,	0 Both-sides,
	o Others: Please describe be	elow.	
	None		
(2) Material of Intake	1 Reinforced Concrete	0 Plain Concre	ete
	0 Rubble Masonry		
	o Others: Please describe be	elow.	
	None		
(3) Total Width of Intake	12.95 m	(6) Max. Inflow Velocity	0.25 m3
(4) Water Depth in front of Intake	2.60 m	(7) Average Inflow Velocity (We	*
(5) Water Depth at Intake	2.60 m	(8) Average Inflow Velocity (Dr	y) 0.02 m/s
G.1.2 Condition of Intake			
(9) Crack	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment b	pelow.	
	None		T 1
(10) Deformation	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment b	below.	
(11) Leak	0 Severe,	1 Moderate,	0 None,
(11) Leak	o Others: Please comment b		0 None,
	None		
(12) Abrasion	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment b	pelow.	
40) 9 11	None		Lolly
(13) Sedimentation	o Others: Please comment b	0 Moderate,	0 None,
	None	Delow.	
G.2 Intake Gate	rone		
G.2.1 Structure of Intake Gate			
(1) Type of Gate	1 Slide Gate,	0 Roller Gate,	0 Rubber Gate,
(0) 1) 11 0110		flap, radial, sector, drum),	
	o Others: Please describe be		-
	None		
(2) Major Material of Gate	1 Iron,	0 Stainless,	0 Rubber,
	o Others: Please describe be	elow.	
	None		
(3) No. of Gates installed	7 sets	(5) Gate Height	1.45 m
(4) No. of Gates functioning	7 sets	(6) Gate Width (each)	1.85 m
(7) Screen	0 There is,	1 None,	
G.2.2 Condition of Intake Gate			
(8) Rust	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment b	pelow.	
	None		

(9) Deformation	0 o C	Severe, Others: Ple	ase comment b	0 pelow	Modera	te,		1 No	one,
	Non								
(10) Leak	0	Severe,	ase comment b	0	Modera	te,		1 No	one,
	Non		ase comment t	below	•				
(11) Other Damage			cribe below.						
	Non								
G.2.3 Operating Device of Intake Gate									
(12) Type of Operating Device	1	Spindle,		0	Roller +			0 Ai	r (Rubber Gate),
	0		Rubber Gate), ease describe be	0	Hinge +	Wir	е,		
	Non		ase describe be	eiow.					
(13) Material of Operating Device	1	Iron,		0	Stainles	S.			
(10)	o C		ase describe be			~,			
	Non								
(14) No. of Devices		7	sets	(16)	Device L	engtl	1		0.50 m
(15) No. of Devices functioning		7	sets	(17)	Device C	apac	ity		- kw
(18) Power of Operating Device	1	Manpow				0	Diesel Engin		nent),
	0		Engine (mobile)			0	Motor (Elect	tricity),	
			ase describe be	elow.					
(10) Cymplementewy Poyyer	Non 0	e There is							
(19) Supplementary Power	1	None							
G.2.4 Condition of Operating Device	1	TVOILE							
(20) Rust	0	Severe,		1	Modera	te.		0 No	one,
	οС		ase comment b	elow					
	Non	e							
(21) Deformation	0	Severe,		0	Modera	te,		1 No	one,
			ase comment b	elow					
(22) Function	Non	Good,		0	Operation	no1		0 No	Good,
(22) Function	0 (		ase comment b			ліаі,		U INC	7 Good,
	Non								
(23) Other Damage			cribe below.						
	Non	e							
H. Present Structural Situation of Sediment	Sottl	ing Rocin							
(1) Sediment Settling Basin	0	There is		1	None,				
If there is or are sediment settling basin (s), 1	ت		or arc.		TTOTIC,				
H.1 Sediment Settling Basin	1111 10	nowing.							
H.1.1 Structure of Sediment Settling Basin	1								
(1) Location of Sediment Settling Basin	0	Just dow	nstream from	Intak	e,	0	Less than 50	00m from	Intake,
	0		an 500m from		-				· · · · · · · · · · · · · · · · · · ·
(2) Material of Sediment Settling Basin	0	Reinford	ced Concrete			0	Plain Concre	te	
	0	Rubble	Masonry						
	o C	Others: Ple	ase describe be	elow.					
	$\succ$		ı						<u> </u>
(3) No. of Settling Basin	-	$\overline{}$	rows		ength of				m m
(4) Width of unit Row	-		m				in Settling Bas ity in Basin (W		#DIV/0! m/s
<ul><li>(5) Total Water Depth in Settling basin</li><li>(6) Effective Water Depth in Settling Basin</li></ul>	-		m m				city in Basin (W		#DIV/0! m/s #DIV/0! m/s
H.1.2 Function and Condition of Sediment	t Sott	ling Basir	K	(10)	Average	VEIO	city iii Dasiii (i	DIY)	#D1 V/O: 111/8
(11) Sediment Settling Function	0	_	nt function,	0	Good fu	nctio	n.	0 Mc	oderate function,
(,	0	Poor fur		0	Damage				,
(12) Sediment Flushing Function	0		nt function,	0	Good fu			0 Mc	oderate function,
	0	Poor fur	nction	0	Damage				
(13) Crack	0	Severe,		0	Modera	te,		Q No	one,
	o C	Others: Ple	ase comment b	elow					
	<u> </u>								
<b> </b>									

(14) Deformation	0 Severe, o Others: Pl	ease comment b	0 Moder elow.	ate,	0 None,	
(15) Leak	0 Severe,		0 Moder	ate,	0 None,	
	o Others: Pl	ease comment b	elow.			/
(16) Abrasion	0 Severe,		0 Moder	ato	0 None,	/
(10) Adiasion	o Others: Pl	ease comment b	elow	ate,	U None,	
	o outers. Tr	ouse comment o				
H.2 Scouring Gate						
H.2.1 Structure of Scouring Gate						
(1) Type of Gate	0 Slide G	ate,	0 Roller	Gate,	0/ Rubber Ga	ate,
		Гуре Gate (incl.		ector, drum),	7	
	o Others: Pl	ease describe be	elow.			
	<u> </u>		1 1		T 1	
(2) Major Material of Gate	0 Iron,		0 Stainle	ess,	0 Rubber,	
	o Others: Pl	ease describe be	elow.			
(3) No. of Gates installed		lasta	(5) Cata Hai	aht /		I
(4) No. of Gates functioning		sets sets	(5) Gate Hei			m m
H.2.2 Condition of Scouring Gate		sets	(0) Gate Wit	1111		111
(7) Rust	0 Severe,		0 Moder	ato	0 None,	
(7) Rust	-	ease comment b		ajc,	o None,	
	Q Guiers. 11	cuse comment a	/ / /			
(8) Deformation	0 Severe,		0 Moder	ate.	0 None,	
		ease comment b		,		
(9) Leak	0 Severe		0 Moder	ate,	0 None,	
	o Others: Pl	ease comment b	elow.			
(10) Other Damage	o Please des	cribebelow				
(10) Other Burnage	o Trease des	eribe telow.				
H.2.3 Operating Device of Scouring Gate		$\overline{}$				
(11) Type of Operating Device	0 Spindle	2,	0 Roller	+ Wire,	0 Air (Rubbe	er Gate),
	0 Water (	Rubber Gate),	0 Hinge	+ Wire,		
	o Others: Pl	ease describe be	elow.			
			$\overline{}$			
(12) Material of Operating Device	0 Iron,		0 Stainle	ess,		
	o Others: Pl	ease describe be	elow.			
(12) N . CD .	/	1.	(15) D :	T 41		
(13) No. of Devices	/	sets	(15) Device	<del>\ -</del>		m kw
(14) No. of Devices functioning (17) Power of Operating Device	0 Manpov	sets	(10) Device	_	ne (permanent),	KW
(17) Fower of Operating Device		wer, Engine (mobile)		0 Motor (Elec		
		ease describe be		O (MOTOL (Elec	itioity),	
(18) Supplementary Power	0 There is	s				
	0 None					
H.2.4 Condition of Operating Device						
(19) Rust	0 Severe,		0 Moder	ate,	0 None,	
	o Others: Pl	ease comment b	elow.			
			1 1			
(20) Deformation	0 Severe,	. •	0 Moder	ate,	0 None,	
/	o Others: Pl	ease comment b	elow.		$\overline{}$	
(21) Function	0 Good,		0 Opera	tional	0 No Good,	
(21) 1 uncupii		ease comment b				
(22) Other Damage	o Please des	cribe below.				
						$\overline{}$
<b>-</b> /						$\overline{}$
/						$\overline{}$
I/	İ					\

A. General Information													
(1) Name of NIS			Ag	anan RIS	(10) Cons	struction (	Cost			A/D	Peso		
(2) Name of Diversion Dam	A	gana		rsion Dam	(11) Nam	e of Rive	r			Agan	an Ri		
(3) Completed Year			J	an. 1925	(12) Catc	hment Ar	ea at Int	ake		104	km2		
(4) Location of Diversion Dam					(13) Ann	ual Avera	ge Rainf	fall		2,948	mm		
Region			R	egion VI	(14) Max				830 m3/s				
Province				Iloilo	(15) Max. Flood Water Depth (U/S)				3.30 m				
Municipality			Sa	n Miguel	(16) Ave	rage Discl	harge (W	/et)	No Data m3/s				
Barangay				Igtambo		(16) Average Discharge (Wet) (17) Average Discharge (Dry)					No Data m3/s		
(5) Purpose of Water Use				Irrigation	(18) Peak	Intake D	ischarge	;		8.25	m3/s		
(6) Irrigation Service Area			4	,467 ha	(19) Ave.	Intake D	ischarge	(Wet)		1.70	m3/s		
(7) Type of Weir			Fix	xed Type	(20) Ave.	Intake D	ischarge	(Dry)		0.65	m3/s		
(8) Total Width of Diversion Dam			8	1.50 m	(21) Four	ndation			Ri	iverbed	Mate		
(9) Height of Diversion Dam				5.81 m	(22) Max	. Dia. of l	Riverbed	Material		300	mm		
(23) Sedimentation				Severe,									
(24) Countermeasure for Sedimentation			Slu	ice Way,									
(25) Watershed Condition			N	Ioderate,									
(26) Watershed Management		Und	ertaken N	Moderately,									
(27) Scoured at Downstream				Severe,									
B. Present Structural Situation of Spi	llway												
<b>B.1 Structure of Fixed Weir</b>													
<b>B.1.1</b> General Information of Fixed	Weir B	ody						_					
(1) Shape of Weir	Ogee				(3) Weir	Width				75.40	m		
(2) Major Material of Fixed Weir		orce	ed Con	crete	(4) Weir	Height				5.81	m		
<b>B.1.2</b> Condition of Fixed Weir Body		_	%	Slightly	30%	Mod	lerate	70%	Severe	100	Э%		
(5) Damaged		%											
(6) Sedimentation	80	%											
B.1.3 Structure of Downstream Ap		_	%	Slightly	30%		derate	70%	Severe		0%		
(7) Type of Foundation	Floati	ng 🛚	Гуре (о	n riverbe	(10) Wid	th of D/S	Apron			75.40	m		
(8) Major Material of D/S Apron	Reinf	orce	ed Con		(11) Max					1.10			
(9) Length of D/S Apron			52.00	m	(12) Min.	Thickne	ss of D/S	Apron		0.30	m		
<b>B.1.4</b> Condition of Downstream Ap		_	%	Slightly	30%	Mod	lerate	70%	Severe	100	)%		
(13) Damaged	13	_									4		
(14) Scoured	0	%									4		
(15) Sedimentation	50	%									<u></u>		
B.1.5 Structure of Downstream Riv	erbed P												
(16) Type of Riverbed Protection	<u> </u>			ete Block	(18) Wid					75.40			
(17) Length of Riverbed Protection			50.00		(19) Wei					1.90			
B.1.6 Condition of D/S Riverbed Pr			%	Slightly	30%	Mod	lerate	70%	Severe	100	)%		
(20) Damaged	50	-									4		
(21) Scoured	50	%									4		
(22) Sedimentation	50	%					ļ				1		
C. Present Structural Situation of Slu	ice Way												
C.1 Sluice Way (civil work)													
C.1.1 Structure of Sluice Way													
(1) Major Material of Sluice Way	Reinfe	orce	d Conc		(3) Upstr					Level			
(2) Width of Sluice Way	Щ.		51.00		(4) Down	stream S	lope		J	Level			
C.1.2 Condition of Sluice Way			%	Slightly	30%	Mod	derate	70%	Severe	100	0%		
(5) Damaged	17	%									4		
(6) Leak	0	%		$\perp$							4		
(7) Sedimentation	80	%									<u></u>		
C.1.3 Structure of Sluice Way Dow													
(8) Type of Foundation		_		n riverbe	(11) Wid					4.60			
(9) Major Material of D/S Apron	Reinfe	orce	d Conc		(12) Max					1.10			
(10) Length of D/S Apron	Щ_		52.00		(13) Min.					0.30			
C.1.4 Condition of D/S Apron			%	Slightly	30%	Mod	lerate	70%	Severe	100	0%		
		0/							1		1		
(14) Damaged	33	_		$\overline{}$			-				-		
(14) Damaged (15) Scoured	0	%											

(17) Type of Riverbed Protection			crete B	Protection lock		h of Riverl	oed Prot	ection		4.60	m
(18) Length of Riverbed Protection				0 m	` ′	tht of Rive				1.90	
C.1.6 Condition of D/S Riverbed Pr	ntection	<b>1</b> 0	1%	Slightly	30%	Mode		70%	Severe	100	
(21) Damaged		1%		Singinary	20,0	111040	1440	7 0 7 0	Bevere	10,	1
(22) Scoured	50	_									
(23) Sedimentation	0	_									
C.2 Sluice Way Pier		70	ı								J
C.2.1 Structure of Sluice Way Pier											
(1) Major Material of Pier	Reinf	orce	d Con	crete	(3) Heigh	t of Sluice	Way Pi	er		10.00	m
(2) No. of Sluice Way Pier	Renn	.0100		2 pc.		ness of Slu				1.50	
C.2.2 Condition of Sluice Way Pier	<del>-</del>	0	1%	Slightly	30%	Mode		70%	Severe	100	
(5) Damaged	33	%	<u> </u>	Singility	3070	Wiode	Tate	7070	Bevere	100	7/0
(6) Leak	0	_									
C.3 Sluice Way Gate	1 0	/0									J
C.3.1 Structure of Sluice Way Gate		r Co	to		(4) No. of	Cluica War	Catas fu	motionina		1	set
(1) Type of Sluice Way Gate (2) Material of Sluice Way Gate	Rolle	ı Ua	ıc,			Sluice Way		neuoning			
• •	Iron,			1 cots		Way Gate		(aaah)		2.90	
(3) No. of Sluice Way Gates installed	1	^	1%	1 sets		Way Gate Mode			C	4.60	
C.3.2 Condition of Sluice Way Gate	50	_	70	Slightly	30%	Mode	rate	70%	Severe	100	J%
(7) Rust		_									
(8) Damaged	50 50	_									
(9) Leak											J
C.3.3 Operating Device of Sluice W	_		<b>T</b> 7 *	1	(12) D		D	•	D: 1E	. ,	
(10) Type of Operating Device	Rolle	r + \		1	· '	er of Opera		vice	Diesel Eng		
(11) No. of Devices				1 sets		ce Capacit				lo Data	KW
(12) No. of Devices functioning	┸—			1 sets		lementary		<b>5</b> 00/	Manpower	10	201
C.3.4 Condition of Operating Device	_	_	%	Slightly	30%	Mode	rate	70%	Severe	100	J%
(16) Rust	50	_									
(17) Damaged	50	-							/Go	1\	
(18) Function	80	%									
			_	a					100	od)	
	otection	Dik	e and	Side-wall					100	<u>1001)</u>	
D. Present Structural Situation of Pro D.1 Protection Dike (embankment)									100	<u>100)</u>	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike	embanl	kme							100		
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike  (1) Material of Protection Dike	embanl Clay,	kme	nt) on	the Left-b	(4) Avera				100	5.50	
<ul> <li>D.1 Protection Dike (embankment)</li> <li>D.1.1 Structure of Protection Dike</li> <li>(1) Material of Protection Dike</li> <li>(2) Lining of Protection Dike</li> </ul>	embanl Clay,	kme	nt) on	the Left-backet	(4) Avera (5) River-	side Slope			100	5.50 1:1.5	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length	Clay,	kme	nt) on ed Con-	the Left-b	(4) Avera (5) River- (6) Land-	side Slope side Slope				5.50 1 : 1.5 Level	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike	Clay, Reinf (Left)	kme Force	nt) on	the Left-backet	(4) Avera (5) River-	side Slope		70%	Severe	5.50 1:1.5	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged	Clay, Reinf (Left) 50	kmer Force	nt) on ed Con-	the Left-b	(4) Avera (5) River- (6) Land-	side Slope side Slope		70%		5.50 1 : 1.5 Level	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike	Clay, Reinf (Left) 50	corce	nt) on ed Con-	the Left-b	(4) Avera (5) River- (6) Land-	side Slope side Slope		70%		5.50 1 : 1.5 Level	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak	Clay,   Reinf     (Left)     50     50	% % %	nt) on ed Cone 135.70	the Left-b	(4) Avera (5) River- (6) Land-	side Slope side Slope		70%		5.50 1 : 1.5 Level	
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-	(embanl Clay, Reinf (Left) 50 0 50 wall on to	% % the H	nt) on ed Cone 135.70	crete Linii 0 m Slightly	(4) Avera (5) River- (6) Land- 30%	side Slope side Slope Mode		70%	Severe	5.50 1:1.5 Level	0%
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall	Clay,   Reinf	% % the H	ed Cone 135.70 9% Right-l	crete Linii 0 m Slightly	(4) Avera (5) River- (6) Land- 30%	side Slope side Slope Mode	rate	70%	Severe	5.50 1:1.5 Level 100	0% m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall	(Left)  50  0  50  Canti Reinf	0 % % % Wthe Heleve	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-vall (9) Mainly Material of Side-wall D.2.4 Condition of Side-wall (Right	(Left)  50  0  50  Canti Reinf	% % % the Heleve	ed Cone 135.70 9% Right-l	crete Linii 0 m Slightly	(4) Avera (5) River- (6) Land- 30%	side Slope side Slope Mode	rate	70%	Severe	5.50 1:1.5 Level 100	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-vall (9) Mainly Material of Side-wall D.2.4 Condition of Side-wall (Right (12) Washed away	(Left)  50  50  Canti Reinf  Canti Reinf  0	% % % the I	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-vall (9) Mainly Material of Side-wall D.2.4 Condition of Side-wall (Right	Clay,   Reinf	0 % % % the I leve or control of the intervention of the intervent	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-vall (9) Mainly Material of Side-wall D.2.4 Condition of Side-wall (Right (12) Washed away	(Left)  50  50  Canti Reinf  Canti Reinf  0	0 % % % the I leve or control of the intervention of the intervent	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (Right (12) Washed away (13) Scoured (14) Damaged	Clay,   Reinf	0 % % % the I leve or control of the intervention of the intervent	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (Right (12) Washed away (13) Scoured (14) Damaged	Clay,   Reinf	0 % % % the I leve or control of the intervention of the intervent	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged F. Present Structural Situation of Int	Clay,   Reinf	0 % % % the I leve or control of the intervention of the intervent	ad Condition 135.70	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River- (6) Land- 30% (10) Tota (11) Aver	side Slope Mode  Length age Height	rate		Severe	5.50 1:1.5 Level 100 141.50 6.25	0% m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged F. Present Structural Situation of Int F.1 Intake	Clay,   Reinf	00	d Com 135.70% Right- r type d Com	the Left-branched Linit of many Slightly bank, crete,	(4) Avera (5) River-(6) Land-30% (10) Total (11) Avera 30%	side Slope Mode  Length age Height	rate	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25	m m 00%
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged FPresent Structural Situation of Int F.1 Intake F.1.1 Structure of Intake	(Left)  Clay, Reinf (Left)  50  50  vall on t Reinf )  0  25  ake	% % % % What is a second of the second of th	d Com 135.70% Right- r type d Com	the Left-becrete Linis 0 m Slightly bank, Crete, Slightly	(4) Avera (5) River-(6) Land-30% (10) Tota (11) Avera 30% (4) Water	side Slope Mode Mode Length age Height	rate rate	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25 100	m m 0%
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged F. Present Structural Situation of Int F.1 Intake F.1.1 Structure of Intake (1) Location of Intake	(Left)  Clay, Reinf (Left)  50  50  vall on t Reinf )  0  25  ake	% % % % What is a single of the single of th	nt) on d Com 135.70 White the state of the s	the Left-becrete Linis 0 m Slightly bank, Crete, Slightly	(4) Avera (5) River-(6) Land-30% (10) Total (11) Avera 30% (4) Water (5) Water (5)	side Slope side Slope Mode Length age Height Mode	rate rate rate rate	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25 100	m m m 20%
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged FPresent Structural Situation of Int F.1 Intake F.1.1 Structure of Intake (1) Location of Intake (2) Material of Intake (3) Total Width of Intake	(Left)  Clay, Reinf (Left)  50  50  vall on t Reinf )  0  25  ake	% % % the I leve Corce % % % % %	nt) on d Com 135.70 White the state of the s	crete Linii 0 m Slightly bank , crete, Slightly	(4) Avera (5) River-(6) Land-30% (10) Total (11) Avera 30% (4) Water (5) Water (5)	side Slope Mode Mode Length age Height Mode Depth in f	rate rate rate ront of Intake ocity	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25 100 2.60 2.60	m m m m m m m m
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (Right (12) Washed away (13) Scoured (14) Damaged FPresent Structural Situation of Int F.1 Intake F.1.1 Structure of Intake (1) Location of Intake (2) Material of Intake (3) Total Width of Intake F.1.2 Condition of Intake	rembanl Clay, Reinf (Left) 50 0 50 vall on t Reinf 0 25 ake Right Reinf	orce  O  W  W  W  W  W  W  W  W  W  W  W  W	nt) on  d Com 135.70  Right-l  r type d Com 12.9	crete Linii 0 m Slightly bank , crete, Slightly	(4) Avera (5) River-(6) Land-30% (10) Total (11) Avera 30% (4) Water (5) Water (6) Max.	Length age Height Mode  Depth in f Depth at I Inflow Vel	rate rate rate ront of Intake ocity	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25 100 2.60 2.60 0.25	m m m 00%
D.1 Protection Dike (embankment) D.1.1 Structure of Protection Dike (1) Material of Protection Dike (2) Lining of Protection Dike (3) Total Length D.1.2 Condition of Protection Dike (6) Damaged (7) Scoured (8) Leak D.2.3 Structure of Protection Side-wall (9) Mainly Material of Side-wall (9) Mainly Material of Side-wall (12) Washed away (13) Scoured (14) Damaged F. Present Structural Situation of Int F.1 Intake F.1.1 Structure of Intake (1) Location of Intake (2) Material of Intake (3) Total Width of Intake	(Left)  Clay, Reinf (Left)  50  50  vall on t Reinf )  0  25  ake	orce  O  % % % % leve Force  O  % % % % % % % % % % % % % % % % %	nt) on  d Com 135.70  Right-l  r type d Com 12.9	crete Linii 0 m Slightly bank , crete, Slightly	(4) Avera (5) River-(6) Land-30% (10) Total (11) Avera 30% (4) Water (5) Water (6) Max.	Length age Height Mode  Depth in f Depth at I Inflow Vel	rate rate rate ront of Intake ocity	70%	Severe	5.50 1:1.5 Level 100 141.50 6.25 100 2.60 2.60 0.25	m m m 0%

F.2.1 Structure of Intake Gate (1) Type of Intake Gate	Slide G	ate		(4) No	of Intake G	ates func	tioning			7	sets
(2) Material of Intake Gate	Iron,	aic,			ike Gate H		uomig			1.45	
(3) No. of Intake Gates installed	non,		7 sets		ike Gate W		ch)			1.85	
2.2.2 Condition of Intake Gate		0%	Slightly	30%		oderate		0%	Severe		0%
(7) Rust	50 9		~ 8								Ť
(8) Damaged	0 9										
(9) Leak	0 9										1
2.2.3 Operating Device of Intake G				ı.		u .					
(10) Type of Operating Device	Spindle	·,		(13) Po	wer of Op	erating I	Device	N	Manpowe	r,	
(11) No. of Devices			7 sets		evice Capa			-			kw
(12) No. of Devices functioning			7 sets		pplementa		r	N	None		
2.2.4 Condition of Operating Device	ce	0%	Slightly	30%		oderate		0%	Severe	10	0%
(16) Rust	50 9	%									
(17) Damaged	0 9	%									
(18) Function	80 9	%							(Gc	ood)	

A. Dimension and Facilities Functional Sur	vey									
A.1 General Information		DIG		1	(7) 5	T . 1 T		1	11.05	1.
(1) Name of NIS	Ŭ	nan RIS		-		Total Length of Main C	Canal		11.85	1
(2) Name of Responsible Center	_	BRIS Office	•	-	(-/	No. of Lateral Canal			4	_
(3) Completed Year		1925	1_	ļ		Γotal Length of Lateral		l	21.35	1
(4) Construction Cost	No	Data	Pesos	ऻ	(10) No. of Sub-lateral Canal					line
(5) Irrigation Service Area		,	ha	-	(11)	Total Length of Sub-la	ateral	Canal	24.44	km
(6) No. of Main Canal		1	lines	<u> </u>	-L					
A.2 Facility Functional Survey							_			
(1) General Facility Function	0	Excellent		n,	0	Good function,	0	Modera	ate function,	,
	1	Poor func			0	Damaged function,,				
(2) Main Canal Function	0	Excellent		n,	1	Good function,	0	Modera	ate function,	,
	0	Poor func			0	Damaged function,,				
(3) Lateral A and Sub-lateral A Function	0	Excellent		n,	0	Good function,	1	Modera	ate function,	1
	0	Poor func	ction		0	Damaged function,,				
(4) Lateral B and Sub-lateral B Function	0	Excellent	functio	n,	0	Good function,	0	Modera	ate function,	,
	1	Poor func	<u>ction</u>		0	Damaged function,,				
(5) Lateral C and Sub-lateral C Function	0	Excellent	function	n,	1	Good function,	0	Modera	ate function,	,
	0	Poor func	ction		0	Damaged function,,				
(6) Lateral D and Sub-lateral D Function	0	Excellent	function	n,	0	Good function,	0	Modera	ate function,	,
	1	Poor func	etion_		0	Damaged function,,				
B. Present Structural Situation of Main Car	ıal									
B.1 Main Canal										
B.1.1 Structure of Main Canal										
(1) Irrigation Service Area		4,467	ha	(6) R	Relate	d Structures				
(2) Max. Design Discharge in Main Canal		8.25	m3/s		No.	of Check Gate			6	set
(3) Total Length of Main Canal		11.85	km		No.	of Drop			2	set
(4) Length of Lining Canal		10.18	km		No.	of Siphon			0	set
(5) Length of Non-lining Canal		1.67	km			of Aqueduct			2	sets
						of Bridge			1	sets
						of Drainage Crossing			1	sets
(7) Type of Canal	1	Open type	e		0	Culvert type	0	Pipe Li	ne type	
· / 21	0 (	Others: Plea		ibe be	low.	71				
	Non	e								
(8) Shape of Typical Cross-section	1	Trapezoio	1		0	Rectangle	0	Round	Shape	
71	0 (	Others: Plea		ibe be	low.					
	Non									
(9) Type of Lining	1	Concrete	lining		0	Asphalt lining	0	Earth li	inino	
(5) Type of Emmig		Others: Plea		ihe he		rispitate minig	Ü	Lurur	5	
	Non		ise deser	100 00	10 W.					
	1 (01)									
B.1.1.1 Maximum Cross-section										
(10) Max. Designed Discharge		8 25	m3/s	(15)	Aver	age Water Depth			1.15	m
(11) Average Discharge	1		m3/s			Slope			1: 1.5	_
(12) Width of Canal Bottom		5.00		` /		itudinal Slope			0.0004	_
(13) Height of Side-wall	1	4.00				Velocity			0.0004	
(14) Max. Water Depth	$\vdash$	1.44				age Velocity			0.84	
B.1.1.2 Minimum. Cross-section	—	1.44	1111	(19)	Aver	age verberty			0.84	111/5
		0.25	m3/s	(25)	A ***	aga Watan Danth			0.20	I
(21) Average Discharge	-		m3/s m3/s			age Water Depth			0.30	_
(21) Average Discharge	-					Slope			1: 1.5	-
(22) Width of Canal Bottom	-	1.50		_	_	itudinal Slope			0.0004	_
(23) Height of Side-wall	-	3.00		_		Velocity			0.33	1
(24) Max. Water Depth	<del> </del>	0.37	m	(29)	Aver	age Velocity			0.22	m/s
<b>B.1.2</b> Condition of Main Canal	<u> </u>				_					
(30) Crack	0	Severe,			1	Moderate,	0	None,		
		Others: Plea	se comr	nent b	elow.					
	Non	e								

(31) Deformation/Slide	0 Severe, o Others: Please comment be	1 Moderate,	0 None,
	None	10w.	
(32) Leak	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be None	low.	
(33) Scoured	0 Severe,	0 Moderate,	1 None.
(55) Scouled	o Others: Please comment be		1 None,
	None		
(34) Sedimentation	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
(5) 01 0	None		
(35) Other Damage	o Please describe below.		
(26) I	None 0.003 km		
(36) Length of Damaged Canal	0.003 km		
B.1.3 Condition of Related Structures			
B.1.3.1 Check Gate	0 0	O Madanata	1 Nana
(37) Crack	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment be	low.	
	None		Lala
(38) Deformation/Slide	Severe,     Others: Please comment be	1 Moderate,	0 None,
	None	IOW.	
(39) Leak	0 Severe,	1 Moderate,	0 None.
(39) Leak	o Others: Please comment be		0 None,
	None	10 W.	
(40) Scoured	0 Severe,	0 Moderate,	1 None,
(10) Beoured	o Others: Please comment be		1 1101101
	None		
(41) Sedimentation	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
	None		
(42) Rust	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
(40) O.I. D.	None		
(43) Other Damage	o Please describe below.	,	
(40 M - CD - 1 CL - 1 CL -	Flat form & Bolt were damage	ed	
(44) No. of Damaged Check Gate	1 sets		
B.1.3.2 Drop			
(45) Crack	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment be	low.	
	None	I	T
(46) Deformation/Slide	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment be	iow.	
(47) Leak	None 0 Severe,	1 Moderate,	0 None,
(TI) LOUK	o Others: Please comment be		o None,
	None	·	
(48) Scoured	0 Severe,	0 Moderate,	1 None,
	o Others: Please comment be	low.	
	None		
(49) Sedimentation	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
(70) 0.1 . D	None		
(50) Other Damage	o Please describe below.		
(51) N. CD. 1.D.	None		
(51) No. of Damaged Drop	0 sets		
B.T.3.3 Siphon	0 0	0 14 1	
(52) Crack	0 Severe,	0 Moderate,	None,
	o Others: Please comment be	low.	
		.1	T . T
(53) Deformation/Slide	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	

-				
(54) Leak	0 Severe, o Others: Please com	0 Moderate,	0 None,	
	o outers. Trease com	ment cere		
(55) Scoured	0 Severe,	0 Moderate,	0 None,	
	o Others: Please com	ment below.		
(56) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please com	ment below.		
(57) Other Damage	o Please describe belo			
(37) Other Daniage	o Flease describe bero	Jw.		
(58) No. of Damaged Siphon	sets			
B.1.3.4 Aqueduct	Sets			
(59) Crack	1 Severe,	0 Moderate,	0 None,	
(37) Cluck	o Others: Please com		o itolio,	
	None	ment below.		
(60) Deformation/Slide	0 Severe,	1 Moderate,	0 None,	
(00) Beformation state	o Others: Please com		o Hono,	
	None			
(61) Leak	1 Severe,	<ol> <li>Moderate,</li> </ol>	0 None,	
	o Others: Please com	ment below.		
(62) Scoured	None 0 Severe,	0 Moderate,	1 None,	
(02) Scottled	o Others: Please com		1 None,	
	None	ment below.		
(63) Sedimentation	0 Severe,	0 Moderate,	1 None,	
	o Others: Please com	ment below.	<u> </u>	
	None			
(64) Rust	1 Severe,	0 Moderate,	0 None,	
	o Others: Please com	ment below.		
(65) Other Damage	o Please describe belo	OW/		
(03) Other Damage	None	5 W .		
(66) No. of Damaged Aqueduct	2 sets			
B.1.3.5 Bridge				
(67) Crack	0 Severe,	0 Moderate,	1 None,	
	o Others: Please com	ment below.		
	None			
(68) Deformation/Slide	0 Severe,	0 Moderate,	1 None,	
	o Others: Please com	ment below.		
	None		T . I .	
(69) Scoured	0 Severe, o Others: Please com	0 Moderate,	1 None,	
	None	ment below.		
(70) Other Damage	o Please describe belo	nw.		
(1.1) - 18	None	• • • • • • • • • • • • • • • • • • • •		
(71) No. of Damaged Bridge	0 sets			
B.1.3.6 Drainage Crossing				
(72) Crack	0 Severe,	0 Moderate,	1 None,	
, ,	o Others: Please com	ment below.	<u> </u>	
	None			
(73) Deformation/Slide	0 Severe,	1 Moderate,	0 None,	
	o Others: Please com	ment below.		
	None			
(74) Leak	0 Severe, o Others: Please com	0 Moderate,	1 None,	
	None	ment below.		
(75) Scoured	0 Severe,	1 Moderate,	0 None,	
(75) 550000	o Others: Please com		5 110110,	
	None			
(76) Sedimentation	0 Severe,	0 Moderate,	1 None,	
	o Others: Please com	ment below.		
(77) Other D	None			
(77) Other Damage	o Please describe belo	DW.		
(79) No. of Domograf Drainage Crossing	None 0 sets			
(78) No. of Damaged Drainage Crossing	U sets			

C. Present Structural Situation of Lateral A	and Sub-latera	l A					
C.1 Lateral A							
C.1.1 Structure of Lateral A and Su-latera			(0) D 1 :	10		0.1.11.4	
(1) Total Irrigation Service Area		ha	` '	d Structures of Later	rai A and		
(2) Max. Design Discharge in Lateral A (3) Total Length of Lateral A	No Data 7.26			of Head Gate of Check Gate		4	sets
(4) Total Length of Lining Canal on Lat. A		km		of Drop		1	sets
(5) Length of Non-lining Canal on Lat. A		km		of Siphon		0	sets
(6) Total Length of Sub-lateral A		km		of Aqueduct		0	sets
(7) Length of Lining Canal on Sub-lateral A		km		of Bridge		5	sets
(8) Length of Non-lining Canal on Sub-lateral A		km		of Drainage Crossin	10	0	sets
(10) Type of Canal	1 Open type		0	Culvert type	0	Pipe Line type	3013
(10) Type of Canal	o Others: Plea			Curveit type	U	Tipe Line type	
	None	se deseri	be below.				
(11) Shape of Typical Cross-section	1 Trapezoio	i	0	Rectangle	0	Round Shape	
()	o Others: Plea	_					
	None						
(12) Type of Lining	1 Concrete	lining,	0	Asphalt lining	0	Earth lining	
	o Others: Plea		be below.				
	None						
C.1.1.1 Maximum Cross-section of Lateral	A and Sub-late	eral A					
(13) Max. Designed Discharge	No Data	m3/s	(18) Avera	age Water Depth		No Data	m
(14) Average Discharge	No Data	m3/s	(19) Side S	Slope		No Data	
(15) Width of Canal Bottom	No Data	m	(20) Long	itudinal Slope		No Data	
(16) Height of Side-wall	No Data	m	(21) Max.	Velocity		#VALUE!	m/s
(17) Max. Water Depth	No Data	m	(22) Avera	age Velocity		#VALUE!	m/s
C.1.1.2 Minimum. Cross-section of Lateral	A and Sub-lat	eral A	ī				-
(23) Max. Designed Discharge	No Data	m3/s	(28) Avera	age Water Depth		No Data	m
(24) Average Discharge	No Data	m3/s	(29) Side S			No Data	
(25) Width of Canal Bottom	No Data	m		itudinal Slope		No Data	
(26) Height of Side-wall	No Data	m	(31) Max.			#VALUE!	m/s
(27) Max. Water Depth	No Data	m	(32) Avera	age Velocity		#VALUE!	m/s
C.1.2 Condition of Lateral A and Sub-later							
(33) Crack	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comm	ent below.				
	None		1 . 1				
(34) Deformation/Slide	0 Severe, o Others: Plea		1	Moderate,	0	None,	
	None	se comm	ient below.				
(35) Leak	0 Severe,		1	Moderate.	0	None,	
(22)	o Others: Plea	se comm			_ ~		
	None						
(36) Scoured	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comm	ent below.				
(37) Sedimentation	None 1 Severe,		0	Moderate,	0	None	
(57) Sedimentation	o Others: Plea	se comm		woderate,	U	None,	
	None	se comm	ient below.				
(38) Other Damage	o Please descr	ibe belov	V.				
. ,	None						
(39) Length of Damaged Canal	1.20	km					
C.1.3 Condition of Related Structures							
C.1.3.1 Head Gate	_						
(40) Crack	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comm	ent below.				
	None						
(41) Deformation/Slide	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comm	ent below.				
(42) L1-	None		1 4 1	Moderata		None	
(42) Leak	0 Severe, o Others: Plea	se comm	ent helow	Moderate,	0	None,	
	None	oc comi	CIII UCIUW.				
	I .						

(43) Scoured	0 Severe,	1 Moderate,	0 None,
. ,	o Others: Please comment bel		· · · · · · · · · · · · · · · · · · ·
	None		
(44) Sedimentation	1 Severe,	0 Moderate,	0 None,
(17) = ==================================	o Others: Please comment bel	ow.	,
	None	• • • • • • • • • • • • • • • • • • • •	
(45) Rust	1 Severe,	0 Moderate,	0 None,
(13) Rust	o Others: Please comment bel		o Hono,
	None		
(46) Other Damage	o Please describe below.		
(40) Other Damage	None		
	None		
C.1.3.2 Check Gate			<u> </u>
(47) Crack	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment bel	ow.	
	None		
(48) Deformation/Slide	0 Severe,	1 Moderate,	0 None,
` '	o Others: Please comment bel	ow.	,
	None		
(49) Leak	0 Severe,	1 Moderate,	0 None,
(15) = 3.1.1	o Others: Please comment bel	OW.	,
	None		
(50) Scoured	0 Severe,	1 Moderate,	0 None,
(50) Bedured	o Others: Please comment bel	OW	0 110110,
	None	· · · · ·	
(51) Sedimentation	1 <u>Severe,</u>	0 Moderate,	0 None,
(31) Sedimentation	o Others: Please comment bel		o None,
	None	ow.	
(52) Decet		O Modorata	0 None.
(52) Rust	1 Severe, o Others: Please comment bel	0 Moderate,	0 None,
		OW.	
(50) 0.1 D	None		
(53) Other Damage	o Please describe below.		
	None		
(54) No. of Damaged Cheek Gate	0 sets		
(54) No. of Damaged Check Gate	0 3013		
	0 sets		
C.1.3.3 Drop		1 Moderate,	0 None,
	0 Severe,		0 None,
C.1.3.3 Drop	0 Severe, o Others: Please comment be		0 None,
C.1.3.3 Drop (55) Crack	0 Severe, o Others: Please comment be	ow.	2 27
C.1.3.3 Drop	0 Severe, o Others: Please comment be	ow.	0 None,
C.1.3.3 Drop (55) Crack	0 Severe, o Others: Please comment bel None 0 Severe, o Others: Please comment bel	ow.	2 27
C.1.3.3 Drop (55) Crack (56) Deformation/Slide	0 Severe, o Others: Please comment bel None 0 Severe, o Others: Please comment bel None	ow.  1 Moderate, ow.	0 None,
C.1.3.3 Drop (55) Crack	0 Severe, 0 Others: Please comment bel None 0 Severe, 0 Others: Please comment bel None 0 Severe,	ow.  1 Moderate, ow.  1 Moderate,	2 27
C.1.3.3 Drop (55) Crack (56) Deformation/Slide	0 Severe, o Others: Please comment bel None 0 Severe, o Others: Please comment bel None 0 Severe, o Others: Please comment bel Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate,	0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak	0 Severe, 0 Others: Please comment bel None 0 Severe, 0 Others: Please comment bel None 0 Severe, 0 Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.	0 None,
C.1.3.3 Drop (55) Crack (56) Deformation/Slide	0 Severe, o Others: Please comment bel None 0 Severe,	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate,	0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak	0 Severe, o Others: Please comment bel None 0 Severe, o Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate,	0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured	0 Severe, o Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.	0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak	O Severe, O Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel None O Others: Please comment bel None O Please describe below.	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel None O Others: Please comment bel None O Please describe below.	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Others: Please comment bel None O Others: Please comment bel None O Please describe below.	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  S.1.3.4 Siphon	O Severe, O Others: Please comment bel None O Others: Please comment bel None O Others: Please comment bel None O Severe, O Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.	0 None, 0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop	O Severe, O Others: Please comment bel None O Severe, O Severe, O Severe, O Severe, O Severe, O Severe,	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate,	0 None, 0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  S.1.3.4 Siphon	O Severe, O Others: Please comment bel None O Others: Please comment bel None O Others: Please comment bel None O Severe, O Others: Please comment bel None	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate,	0 None, 0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  S.1.3.4 Siphon	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate,	0 None, 0 None, 0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate,	0 None,  0 None,  0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack	O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  G.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,
C.1.3.3 Drop  (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  C.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Please describe below. None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  G.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,
C.1.3.3 Drop (55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  G.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, O Others: Please comment bel None I Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel None O Please describe below. None O Severe, O Others: Please comment bel None O Severe, O Others: Please comment bel	ow.  1 Moderate, ow.  1 Moderate, ow.  1 Moderate, ow.  0 Moderate, ow.	0 None,  0 None,  0 None,  0 None,

(66) Sedimentation	0 Severe,	0 Moderate,	0 None,	$\overline{}$
(66) Sedifficitation	0 Severe,		0 None,	
	o Others: Please comment	below.		
(67) Other Qamage	o Please describe below.			
(01) Siner Ziminge	o Trease deserree sers			
	1			
(68) No. of Damaged Siphon	sets			
C.1.3.5 Aqueduct				
(69) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment	below.		
	<del>\                                    </del>	<del>/</del>		
(70) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment	below.	<del></del>	
		/		
(71) I 1		O Madanata	O Mana	
(71) Leak	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment	below.		
(72) Scoured	0 Severe,	0 Moderate,	0 None,	
(72) Scouled	Others: Please comment	o iviouerate,	o None,	
	Others: Please comment	below.		
(73) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment	below		
	o others. I lease comment	below.		
(74) Rust	0 Severe,	<ol> <li>Moderate,</li> </ol>	0 None,	
	o Others: Please comment	below.		
75.0				
(75) Other Damage	o Please describe below.			<u> </u>
(76) No. of Damaged Aqueduct	sets			$\overline{}$
	Sets			
C.1.3.6 Bridge				
(77) Crack	0 Severe,	1 Moderate,	0 None,	
(77) Graen			<u> </u>	
	o Others: Please comment	below.		
	None			
(78) Deformation/Slide	0 Severe,	1 Moderate,	0 None,	
(78) Deformation/Sinde			o None,	
	o Others: Please comment	below.		
	None			
(79) Scoured	0 Severe,	1 Moderate,	0 None,	
(17) 211111	o Others: Please comment		,,	
		below.		
	None			
(80) Other Damage	o Please describe below.			
	None			
(81) No. of Damaged Bridge	0 sets			
C.1.3.7 Drainage Crossing				
	0 Severe.	O Madanata	O. None	_/_
(82) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment	below.		
	+ a L a		1 .1/::	
(83) Deformation/Slide	0 Severe,	0 Moderate,	None,	
	o Others: Please comment	below.	/	
(0.4) I 1	01.6	L O.L Madanata	O Nama	
(84) Leak	0 Severe,	0 Moderate,	0 None,	
	Others: Please comment	below.		
(85) Scoured	0 Severe,	0 Moderate,	0 None,	
(65) Scoured	o Others: Please somment	o Woderate,	o None,	
	o Otners: Please comment	below.		
(86) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please comment		,	
	5 Juleis. Ficuse comment			
/	1			
(87) Other Damage	o Please describe below.			
(88) No. of Damaged Drainage Crossing	sets			
(00) NO. Of Dailiaged Diamage Crossing	sets			
			_	·
/				_
•				

D. Present Structural Situation of Lateral B	and Sub-latera	1 B					
D.1 Lateral B							
D.1.1 Structure of Lateral B and Su-lateral		1	(0) D-1-4-	1 Ct	D 4	C1- 1-41 D	
(1) Total Irrigation Service Area (2) Max. Design Discharge in Lateral B		ha m3/s	` '	d Structures of Later of Head Gate	ai b and	Sub-lateral B	sets
(3) Total Length of Lateral B		km		of Check Gate		5	sets
(4) Total Length of Lining Canal on Lat. B		km		of Drop		3	sets
(5) Length of Non-lining Canal on Lat. B		km		of Siphon		0	sets
(6) Total Length of Sub-lateral B		km		of Aqueduct		0	sets
(7) Length of Lining Canal on Sub-lateral B		km		of Bridge		1	sets
(8) Length of Non-lining Canal on Sub-lateral B		km		of Drainage Crossin	g	0	sets
(10) Type of Canal	1 Open type		0	Culvert type	0	Pipe Line type	SCIS
(10) Type of Canan	o Others: Plea			curvert type	U	Tipe Ellie type	
	None	SC GCSCI	00 0010				
(11) Shape of Typical Cross-section	1 Trapezoio	1	0	Rectangle	0	Round Shape	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	o Others: Plea	_	be below.	U			
	None						
(12) Type of Lining	1 Concrete	lining,	0	Asphalt lining	0	Earth lining	
	o Others: Plea	se descri	be below.		•		
	None						
D.1.1.1 Maximum Cross-section of Lateral	B and Sub-late	eral B					
(13) Max. Designed Discharge	2.81	m3/s	(18) Avera	age Water Depth		1.10	m
(14) Average Discharge	2.25	m3/s	(19) Side S	Slope		1:1.5	
(15) Width of Canal Bottom	3.50	m	(20) Long	itudinal Slope		0.0001	
(16) Height of Side-wall	2.00		(21) Max.	Velocity		0.37	m/s
(17) Max. Water Depth	1.38	m	(22) Avera	age Velocity		0.40	m/s
D.1.1.2 Minimum. Cross-section of Lateral							
(23) Max. Designed Discharge	0.13			age Water Depth		0.18	1
(24) Average Discharge	0.06		(29) Side S	•		1:1.5	4
(25) Width of Canal Bottom	1.00			itudinal Slope		0.0015	
(26) Height of Side-wall	1.50		(31) Max.			0.43	
(27) Max. Water Depth		m	(32) Avera	age Velocity		0.26	m/s
D.1.2 Condition of Lateral B and Sub-later							
(33) Crack	0 Severe,		1	<u>Moderate,</u>	0	None,	
	o Others: Plea	se comn	ent below.				
(2.1) 7. (21.1)	None					N.	
(34) Deformation/Slide	0 Severe, o Others: Plea	sa comn	l l	<u>Moderate,</u>	0	None,	
	None	se comm	ient below.				
(35) Leak	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comn	ent below.			•	
	None						
(36) Scoured	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comn	ent below.				
(37) Sedimentation	None 1 Severe,		0	Moderate,	0	None,	
(37) Sedimentation	o Others: Plea	se comm		woderate,	U	None,	
	None						
(38) Other Damage	o Please descr	ibe belo	W.				
•	None						
(39) Length of Damaged Canal	1.10	km					
D.1.3 Condition of Related Structures							
D.1.3.1 Head Gate				_		_	
(40) Crack	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comn	ent below.		_		
	None				,		
(41) Deformation/Slide	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	se comn	ent below.				
(42) Look	None		, 1	Modorata	0	None	
(42) Leak	0 Severe, o Others: Plea	se comm	ent helow	Moderate,	0	None,	
	None	oc comin	CIII UCIUW.				
	1						

	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be		· ·
	None		
(44) Sedimentation	0 Severe,	1 Moderate,	0 None,
() = =======	o Others: Please comment be	elow.	, , , , , , , , , , , , , , , , , , , ,
	None		
(45) Rust	1 Severe,	0 Moderate,	0 None,
(13) Rust	o Others: Please comment be		0 110110;
	None		
(46) Other Damage	o Please describe below.		
(40) Other Dunlage	None		
D 122 Cl. 1 C 4	None		
D.1.3.2 Check Gate			
(47) Crack	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	elow.	
	None		
(48) Deformation/Slide	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	elow.	
	None		
(49) Leak	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	elow.	
	None		
(50) Scoured	0 Severe,	1 Moderate,	0 None,
` '	o Others: Please comment be	elow.	· ·
	None		
(51) Sedimentation	1 Severe,	0 Moderate,	0 None,
(61) Sedimentation	o Others: Please comment be		0 11001
	None		
(52) Rust	1 Severe,	0 Moderate,	0 None.
(32) Kust	o Others: Please comment be		0 14010,
	None	510 W.	
(53) Other Damage	o Please describe below.		
(55) Other Damage	None		
(54) N. CD. 1 Cl. 1 C.			
(54) No. of Damaged Check Gate	0 sets		
D.1.3.3 Drop		<del>- 1</del>	
(55) Crack	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	elow.	
	None		
(56) Deformation/Slide	0 Severe,	1 Moderate,	0 None,
, ,	o Others: Please comment be		· · · · · · · · · · · · · · · · · · ·
	None		
	None		
(57) Leak	0 Severe,		0 None,
(57) Leak		1 Moderate,	0 None,
(57) Leak	0 Severe,	1 Moderate,	0 None,
	0 Severe, o Others: Please comment be	1 Moderate,	
(57) Leak (58) Scoured	0 Severe, o Others: Please comment be	1 Moderate, elow.	0 None,
	0 Severe, o Others: Please comment be None 0 Severe,	1 Moderate, elow.	
(58) Scoured	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None	1 Moderate, elow.  1 Moderate, elow.	0 None,
	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe,	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured (59) Sedimentation	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None O Please describe below.	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None o Please describe below.	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None O Please describe below.	1 Moderate, elow.  1 Moderate, elow.  0 Moderate,	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop D.1.3.4 Siphon	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None O Please describe below. None O sets	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None o Please describe below. None O sets	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop D.1.3.4 Siphon	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None O Please describe below. None O sets	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop D.1.3.4 Siphon	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Others: Please comment be None o Please describe below. None O sets	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None, 0 None, 0 None,
(58) Scoured (59) Sedimentation (60) Other Damage (61) No. of Damaged Drop D.1.3.4 Siphon	0 Severe, 0 Others: Please comment be None 0 Severe, 0 Others: Please comment be None 1 Severe, 0 Others: Please comment be None 0 Please describe below. None 0 sets  0 Severe, 0 Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D-1.3.4 Siphon  (62) Crack	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets  O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None, 0 None, 0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D-1.3.4 Siphon  (62) Crack	0 Severe, 0 Others: Please comment be None 0 Severe, 0 Others: Please comment be None 1 Severe, 0 Others: Please comment be None 0 Please describe below. None 0 sets  0 Severe, 0 Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None, 0 None, 0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D-1.3.4 Siphon  (62) Crack	0 Severe, 0 Others: Please comment be None 0 Severe, 0 Others: Please comment be None 1 Severe, 0 Others: Please comment be None 0 Please describe below. None 0 sets  0 Severe, 0 Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None, 0 None, 0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets  O Severe, o Others: Please comment be O Severe, o Others: Please comment be O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,  0 None,  0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets O Severe, o Others: Please comment be O Severe, o Others: Please comment be O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,  0 None,  0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  13.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets O Severe, o Others: Please comment be O Severe, o Others: Please comment be O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,  0 None,  0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  D.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,  0 None,  0 None,  0 None,
(58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  B.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	O Severe, o Others: Please comment be None O Severe, o Others: Please comment be None I Severe, o Others: Please comment be None O Please describe below. None O sets  O Severe, o Others: Please comment be	1 Moderate, elow.  1 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.  0 Moderate, elow.	0 None,  0 None,  0 None,  0 None,

(66) Sedimentation	0 Severe,	0 Moderate,	0 None,
(66) Sediffentation			0 None,
	o Others: Please comment b	elow.	
(67) Other Damage	o Please describe below.		
(68) No. of Damaged Siphon	sets		
	sets		/
D.1.3.5 Aqueduct			
(69) Crack	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	pelow	
	N .		Lalu
(70) Deformation/Slide	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	oelow.	
(71) Leak	0 Severe,	0 Moderate,	0 None,
( )	o Others: Please comment b		
	0 0 1110 1110 1110 1110 1110 1110		
(70) 9 1		I Madauata	I o I Nama
(72) Scoured	0 Severe,	Moderate,	0 None,
	Others: Please comment b	pelow.	
(73) Sedimentation	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	pelow.	
(74) Rust	0 Severe,	0 Moderate,	0 None,
(74) Kust	o Others: Please comment b	0 Moderate,	0 None,
	o Otners: Please comment b	elow.	
(75) Other Damage	o Please describe below.		
(76) No. of Damaged Aqueduct	sats		
	sets		
D.1.3.6 Bridge			
(77) Crack	0 Severe,	1 <u>Moderate,</u>	0 None,
	o Others: Please comment b	elow	
	None		
		T . T	T . I
(78) Deformation/Slide	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment b	elow.	
	None		
(79) Scoured	0 Severe,	1 Moderate,	0 None,
(13) 233332	o Others: Please comment b		, , , , , , , , , , , , , , , , , , , ,
	None		
(00) O.I. D.			
(80) Other Damage	o Please describe below.		
	None		
(81) No. of Damaged Bridge	0 sets		
D.1.3.7 Drainage Crossing			
	0 0	O Madanata	a Nove
(82) Crack	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	elow.	
(83) Deformation/Slide	0 Severe,	0 Moderate,	O None,
(63) Detormation/slide	o Others: Please comment b		NOITE,
	o Otners: Please comment b	below.	
(84) Leak	0 Severe,	0 Moderate,	0 None,
	Others: Please comment b	pelow.	
(85) Scoured	0 Severe,	0 Moderate,	0 None,
(ob) becared	o Others: Please comment b	pelow	0 110.10,
	o others. Trease to milent o	etow.	
(0.0) (0.1)			Lala
(86) Sedimentation	0 Severe,	0 Moderate,	0 None,
	o Others: Please comment b	pelow.	
	ľ		
(87) Other Damage	o Please describe below.		
(88) No. of Damaged Drainage Crossing	sets		
(66) No. of Damaged Diamage Clossing	SCIS		_
			_
	l .		

E. Present Structural Situation of Lateral C E.1 Lateral C	and Sub-latera	ıl C						
E.1.1 Structure of Lateral C and Su-latera	l C							
(1) Total Irrigation Service Area	147	ha	(9) Relate	d Structures of Latera	al C and	Sub-lateral C		
(2) Max. Design Discharge in Lateral C	No Data	m3/s	No.	of Head Gate			1	sets
(3) Total Length of Lateral C	1.17	km	No.	of Check Gate			0	sets
(4) Total Length of Lining Canal on Lat. C	0.10	km	No.	of Drop			0	sets
(5) Length of Non-lining Canal on Lat. C	1.07	km		of Siphon			0	sets
(6) Total Length of Sub-lateral C	0.00	km	No.	of Aqueduct			0	sets
(7) Length of Lining Canal on Sub-lateral C	0.00	km		of Bridge			1	sets
(8) Length of Non-lining Canal on Sub-lateral C	0.00	km		of Drainage Crossing	g			sets
		4						
(10) Type of Canal	1 Open typ	e	0	Culvert type	0	Pipe Line typ	ne	
(10) 1) 11 11 11 11	o Others: Plea							
	None							
(11) Shape of Typical Cross-section	1 Trapezoi	d	0	Rectangle	0	Round Shape	e	
(11) Shape of Typical Cross section	o Others: Plea			recumgic		rtound Shap		
	None	ise deser	ioc ociow.					
(12) Type of Lining	1 Concrete	lining	0	Asphalt lining	0	Earth lining		
(12) Type of Emmig	o Others: Plea			7 ispitate ining	Ů	Lurur minig		
	None	ise deser	ioc ociow.					
E.1.1.1 Maximum Cross-section of Lateral		aral C						
(13) Max. Designed Discharge	No Data	1	(18) Aver	age Water Depth		N	o Data	m
(14) Average Discharge	No Data	1	(19) Side				o Data	111
(15) Width of Canal Bottom	No Data	4		ritudinal Slope			o Data	
(16) Height of Side-wall	No Data		(20) Long				LUE!	m/s
		1			-		LUE!	
(17) Max. Water Depth	No Data	<u> </u>	(22) Aver	age Velocity	L	# <b>V</b> F	LUE!	III/S
E.1.1.2 Minimum. Cross-section of Lateral		1	(20) Arrow	ana Watan Danth	ſ	N	o Doto	I
(23) Max. Designed Discharge	No Data	_		age Water Depth			o Data	m
(24) Average Discharge	No Data	4	(29) Side	•			o Data	
(25) Width of Canal Bottom	No Data			itudinal Slope			o Data	,
(26) Height of Side-wall	No Data		(31) Max.				ALUE!	
(27) Max. Water Depth	No Data	m	(32) Aver	age Velocity	L	#VA	ALUE!	m/s
E.1.2 Condition of Lateral C and Sub-later				1	-			
(33) Crack	0 Severe,		1	<u>Moderate,</u>	0	None,		
	o Others: Plea	ise comr	nent below.					
	None			1				
(34) Deformation/Slide	0 Severe,		1	<u>Moderate,</u>	0	None,		
	o Others: Plea	ise comr	nent below.	•				
(25) Look	None 0 Severe,		1.0	Modorata	1 1	None		
(35) Leak	o Others: Plea	ise comr	nent below	Moderate,	1	None,		
	None	ise comi	nent below.	•				
(36) Scoured	0 Severe,		0	Moderate,	1	None,		
	o Others: Plea	ise comr	nent below.		•			
	None							
(37) Sedimentation	0 Severe,		0	Moderate,	1	None,		
	o Others: Plea	ise comr	nent below.	•				
(20) 0.1 - D	None							
(38) Other Damage	o Please descr	ribe belo	ow.					
(20) I	None							
(39) Length of Damaged Canal	0.23	кm						
E.1.3 Condition of Related Structures								
E.1.3.1 Head Gate				1				
(40) Crack	0 Severe,		0	Moderate,	1	None,		
	o Others: Plea	ise comr	nent below.	•				
	None			1				
(41) Deformation/Slide	0 Severe,		1	Moderate,	0	None,		
	o Others: Plea	ise comr	nent below.					
(40) I	None		1 -	l Madauat	1 01	Mana		
(42) Leak	0 Severe, o Others: Plea	100 0000	nent below	<u>Moderate</u> ,	0	None,		
	None	ise coiiii	nent below.	•				
	10110							

			1 . 1	
(43) Scoured	0 Severe,	0 Moderate,	1 None,	
	o Others: Please co	omment below.		
(10.0.1)	None		Lala	
(44) Sedimentation	0 Severe, o Others: Please co	0 Moderate,	1 None,	
		omment below.		
	None		Lalu	
(45) Rust	0 Severe,	1 Moderate,	0 None,	
	o Others: Please co	omment below.		
	None			
(46) Other Damage	o Please describe	below.		
	None			,
E.1.3.2 Check Gate				
(47) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please c	omment below.		
(48) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	/
(10) Deformation state	o Others: Please c	omment below.		
	5 Guiersi Freuse e	omment delow.		
(49) Leak	0 Severe,	0 Moderate,	0 None,	
(15) Ecual	o Others: Please co	omment below	0 110119,	
	5 Guiersi Freuse e	omment delow.		
(50) Scoured	0 Severe,	0 Moderate,	0 None,	
(50) Beouled	o Others: Please c	omment below.	/ 110110;	
	5 State 15: 1 Tetape C			
(51) Sedimentation	0 Severe,	0 Moderate,	0 None,	
(51) Sedimentation	o Others: Please co	omment below	O None,	
	5 Guiera Trease C	<u> </u>	,	
(52) Rust	0 Severe,	0 Moderate,	0 None,	
(32) Rust	o Others: Please co		o itono,	
	5 Guiera Trease C	<u> </u>		
(53) Other Damage	o Please describe	helow		
(55) Other Burnage	O Tieuse describe	below.		
(54) No. of Damaged Check Gate	sets			
	Sets	<u></u>		
E.1.3.3 Drop	0 0	O Madanata	0 None.	
(55) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please co	omment below.		
(56) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	
	o Others: Please c	onment below.		
(57) Leak	0 Severe,	0 Moderate,	0 None,	
	o Others: Please c	omment below.		
(58) Scoured	0 Severe, o Others: Please co	Moderate,	0 None,	
	o Others: Please c	omment below.		
(59) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please c	omment below.		
(60) Other Damage	o Please describe	below.		
(61) No. of Damaged Drop	sets	`	\	
E.1.3.4 Siphon				
(62) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please co			
	o others. I rease e	omment below.		
(63) Deformation/Slide	0 Severe.	Moderate.	0 None,	
(03) Deformation/stide	0 Severe, o Others: Please co		o nocie,	
<b>I</b> /	o oniers. Please C	omment below.		
(64) Look	O Carrage	0 Moderate.	O More	
(64) Leak	O Severe, O Others: Please co		0 None,	
	o oniers. Please C	omment below.		$\overline{}$
(65) Sagurad	0 Severe,	0 Moderate	0 None,	$\overline{}$
(65) Scoured	O Severe, o Others: Please co	0 Moderate,	o none,	$\overline{}$
	o onicis. I lease o	omment below.		$\overline{}$
				$\overline{}$
	i i			\

V (60 G II ) ; ;	0 0	O Madazata	O. Maria	
(66) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below.		
(67) Other Damage	o Please describe below.			
(07) Other Ethinge	o Ticuse describe below.			
(68) No. of Damaged Siphon	sets			
E.1.3.5 Aqueduct				
	0 0			
(69) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below.		
		1.1./.	T . T	
(70) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below.		
(71) Leals	0 Severe,	0 Moderate,	0 None,	
(71) Leak	0 Sevele,	0 Woderate,	o None,	
	o Others: Please commer	it below.		
(72) Scoured	0 Severe,	0 Moderate,	0 None,	
(72) Sesuite	Others: Please commer	nt below	0 1101101	
	Others. I lease commer	it below.		
(73) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below.	<del></del>	
(74) Post	0   0	0 Madacete	I O NAIsee	
(74) Rust	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below.		
(75) Other Damage	o Please describe below.			$\overline{}$
(73) Giller Dalllage	o Tlease describe below.			$\overline{}$
(76) No. of Damaged Aqueduct	sets			
	<u> </u>			
E.1.3.6 Bridge				
(77) Crack	0 Severe,	1 Moderate,	0 None,	
	o Others: Please commer	nt below	<u></u>	
	None	11 0010 W.		
(78) Deformation/Slide	0 Severe,	1 Moderate,	0 None,	
	o Others: Please commer	nt below.		
	None			
(70) G 1		I d I Madagata	I o I Nove	
(79) Scoured	0 Severe,	1 Moderate,	0 None,	
	o Others: Please commer	nt below.		
	None			
(80) Other Damage	o Please describe below.			
(60) Other Damage				
	None			
(81) No. of Damaged Bridge	0 sets			
	<u> </u>			
E.1.3.7 Drainage Crossing	_			/_
(82) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below		
	o others. I rease commer	11 0010 W.		
(83) Deformation/Slide	0 Severe,	<ol> <li>Moderate,</li> </ol>	O None,	
	o Others: Please commer		<del></del>	
(84) Leak	0 Severe,	0 Moderate,	0 None,	
	Others: Please commer	nt below.		
(85) Scoured	0 Severe,	0 Moderate,	0 None,	
(63) Scouled	o Others: Please sommer	0 Woderate,	o None,	
	o Otners: Please sommer	it below.		
(86) Sedimentation	0 Severe,	0 Moderate,	0 None,	
	o Others: Please commer	nt below	,	
	5 Juliers. Freuse commer			
	1			
(87) Other Damage	o Please describe below.			
(88) No. of Damaged Drainage Crossing	sets		_	
(66) IVO. Of Damaged Diamage Crossing	SCIS		$\overline{}$	
				_
	1			$\overline{}$
				$\overline{}$
<u> </u>				

F. Present Structural Situation of Lateral D F.1 Lateral D	and Sub-latera	l D					
F.1.1 Structure of Lateral D and Su-latera	1 D						
(1) Total Irrigation Service Area	453	ha	(9) Relate	d Structures of Later	al D and	Sub-lateral D	
(2) Max. Design Discharge in Lateral D		m3/s	No.	of Head Gate		2	sets
(3) Total Length of Lateral D	4.65	km	No.	of Check Gate		1	_
(4) Total Length of Lining Canal on Lat. D	0.00	km		of Drop		1	-
(5) Length of Non-lining Canal on Lat. D	4.65	km		of Siphon		0	
(6) Total Length of Sub-lateral D	0.52			of Aqueduct		0	_
(7) Length of Lining Canal on Sub-lateral D	0.00			of Bridge		0	-
(8) Length of Non-lining Canal on Sub-lateral D	0.52			of Drainage Crossin	σ	0	_
(10) Type of Canal	1 Open typ		0	Culvert type	0	Pipe Line type	3013
(10) Type of Canar	o Others: Plea			Curveit type	U	Fipe Line type	
	None	ise desci	ibe below.				
(11) Shape of Typical Cross-section	1 Trapezoi	d	0	Rectangle	0	Round Shape	
(11) Shape of Typical Cross-section	o Others: Plea			Rectaligle	U	Kouliu Shape	
	None	ise descr	ibe below.				
(12) Tong of Lining	<u> </u>	1::	0	A114 1::	1	E41-11-1	
(12) Type of Lining				Asphalt lining	1	Earth lining	
	o Others: Plea	ise descr	ibe below.				
F.1.1.1 Maximum Cross-section of Lateral			(10)	W D d		0.50	1
(13) Max. Designed Discharge		m3/s		age Water Depth		0.58	-
(14) Average Discharge	0.70		(19) Side 3	•		1:1.5	_
(15) Width of Canal Bottom	1.60			itudinal Slope		0.0005	
(16) Height of Side-wall	1.80		(21) Max.	•			m/s
(17) Max. Water Depth	0.66	m	(22) Avera	age Velocity		0.49	m/s
F.1.1.2 Minimum. Cross-section of Lateral	D and Sub-lat	eral D	T				_
(23) Max. Designed Discharge	0.08	m3/s	` '	age Water Depth		0.18	m
(24) Average Discharge		m3/s	(29) Side 3	Slope		1:1.5	5
(25) Width of Canal Bottom	0.70	m	(30) Long	itudinal Slope		0.0015	5
(26) Height of Side-wall	1.00	m	(31) Max.			0.37	m/s
(27) Max. Water Depth	0.22	m	(32) Avera	age Velocity		0.23	m/s
F.1.2 Condition of Lateral D and Sub-later	r <u>al D</u>						
(33) Crack	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	ase comn	nent below.				
	None						
(34) Deformation/Slide	0 Severe,		1	Moderate,	0	None,	
` '	o Others: Plea	ase comn	nent below.		•		
	None						
(35) Leak	0 Severe,		1	Moderate,	0	None,	
	o Others: Plea	ase comn	nent below.				
	None				1 .		
(36) Scoured	0 Severe,		1 1	Moderate,	0	None,	
	o Others: Plea	ise comn	nent below.				
(37) Sedimentation	None 1 Severe,		0	Moderate,	0	None,	
(37) Sedifficilitation	o Others: Plea	ise comn	-	woderate,	U	None,	
	None	ise comm	icin ociow.				
(38) Other Damage	o Please descr	ribe belo	W.				
(++) +g	None						
(39) Length of Damaged Canal	0.05	km					
F.1.3 Condition of Related Structures	0.03	1					
F.1.3.1 Head Gate							
	O Carrage		1	Moderate	0	None	
(40) Crack	0 Severe,	20.22		Moderate,	U	None,	
	o Others: Plea	ise comn	nent below.				
(41) D-f (' /01' 1	None		1 .1	Modorata	1 0	None	
(41) Deformation/Slide	0 Severe, o Others: Plea	2000	1	Moderate,	0	None,	
	None	ise comn	nem below.				
(42) Leak	1 Severe,		0	Moderate,	0	None,	
(T2) Louis	o Others: Plea	ase comn	-	woodato,	U	140110,	
	None						

(43) Scoured	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	low.	
	None		
(44) Sedimentation	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	low.	
	None		
(45) Rust	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
40.01	None		
(46) Other Damage	o Please describe below. Skin Plate was damaged		
E 1 2 2 Ch l- C-4-	Skiii I late was damaged		
F.1.3.2 Check Gate	0 0	1 Madanata	O None
(47) Crack	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	low.	
	None		T - T
(48) Deformation/Slide	0 Severe,	1 Moderate,	0 None,
	o Others: Please comment be	low.	
(40) I 1	None	O Madanata	I o I Nana
(49) Leak	1 Severe, o Others: Please comment be	0 Moderate,	0 None,
	None	iow.	
(50) Scoured	0 Severe,	1 Moderate,	0 None,
(50) Beoured	o Others: Please comment be		o None,
	None		
(51) Sedimentation	0 Severe,	1 Moderate,	0 None,
, ,	o Others: Please comment be	low.	,
	None		
(52) Rust	1 Severe,	0 Moderate,	0 None,
	o Others: Please comment be	low.	
	None		
(53) Other Damage	o Please describe below.		
	Skin Plate is damaged		
(54) No. of Damaged Check Gate	0 sets		
F.1.3.3 Drop			
F.1.3.3 Drop (55) Crack	0 Severe,	1 Moderate,	0 None,
_	o Others: Please comment be		0 None,
(55) Crack	o Others: Please comment be None	low.	
_	o Others: Please comment be None  0 Severe,	low.	0 None,
(55) Crack	o Others: Please comment be None  O Severe, o Others: Please comment be	low.	
(55) Crack  (56) Deformation/Slide	o Others: Please comment be None  O Severe, o Others: Please comment be None	1 Moderate, low.	0 None,
(55) Crack	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None  0 Severe,	1 Moderate,  1 Moderate,	
(55) Crack  (56) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be	1 Moderate,  1 Moderate,	0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None	1 Moderate, low.  1 Moderate, low.	0 None,
(55) Crack  (56) Deformation/Slide	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe,	1 Moderate, low.  1 Moderate, low.  1 Moderate,	0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None	1 Moderate, low.  1 Moderate, low.  1 Moderate,	0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate,	0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Others: Please comment be  None	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Others: Please comment be  None O Others: Please comment be  None O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage	o Others: Please comment be  None  O Severe, O Others: Please comment be  None O Severe, O Others: Please comment be  None O Severe, O Others: Please comment be  None I Severe, O Others: Please comment be  None O Please describe below.	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Others: Please comment be  None O Others: Please comment be  None O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Please describe below.	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.	0 None, 0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Please describe below.  None 0 Severe,	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate,	0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Please describe below.	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate,	0 None, 0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Please describe below.  None 0 sets  0 Severe, o Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.	0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Please describe below.  None 0 Sets  0 Severe, o Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate,	0 None, 0 None, 0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack	o Others: Please comment be  None  0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 0 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 1 Severe, o Others: Please comment be  None 0 Please describe below.  None 0 sets  0 Severe, o Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate,	0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Others: Please comment be  None O Please describe below.  None O Severe, O Others: Please comment be  O Severe, O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate, low.	0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be  None O Please describe below.  O Severe, O Others: Please comment be  O Severe, O Others: Please comment be  O Severe, O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate, low.	0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Others: Please comment be  None O Please describe below.  None O Severe, O Others: Please comment be  O Severe, O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate, low.	0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be  None O Please describe below.  O Severe, O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate, low.  0 Moderate, low.	0 None,  0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F.1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be   1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None,  0 None,  0 None,  0 None,	
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be  None O Please describe below.  O Severe, O Others: Please comment be	1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None,  0 None,  0 None,  0 None,  0 None,
(55) Crack  (56) Deformation/Slide  (57) Leak  (58) Scoured  (59) Sedimentation  (60) Other Damage  (61) No. of Damaged Drop  F-1.3.4 Siphon  (62) Crack  (63) Deformation/Slide	o Others: Please comment be  None  O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None O Severe, o Others: Please comment be  None I Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be  None O Please describe below.  None O Severe, o Others: Please comment be   1 Moderate, low.  1 Moderate, low.  1 Moderate, low.  0 Moderate,	0 None,  0 None,  0 None,  0 None,  0 None,	

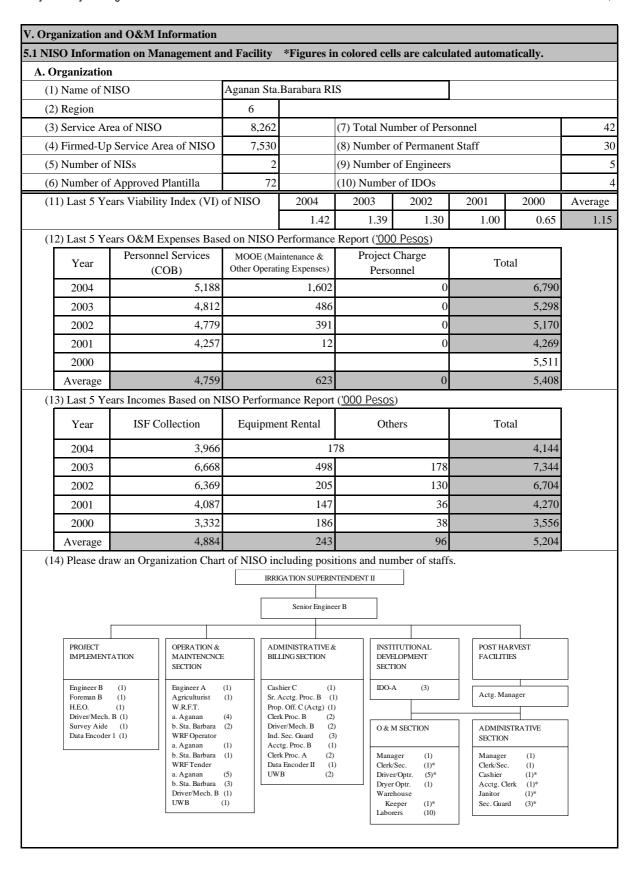
	т.т.	T . T	T.T.	
(66) Sedimentation	0 Severe,	0 Moderate,	0 None,	/
	o Others: Please co	mment below.		
(67) Other Damage	o Please describe b	elow		
(ov) other Burnage	o Trease deseribe 8	ciow.		_/
(50)				/
(68) No. of Damaged Siphon	sets			<u>/</u>
F.1.3.5 Aqueduct				
(69) Crack	0 Severe,	0 Moderate,	0 None,	
(0) Clack			o None,	
	o Others: Please co	mment below.		
(70) Deformation Slide	0 Severe,	0 Moderate,	0 None,	
(10) = 1111111111111111111111111111111111	o Others: Please co			
	o others. I rease co	mment below.		
(71) I. 1	0 0	L o L Madagata	I of Name	
(71) Leak	0 Severe,	0 Moderate,	Ø None,	
	o Others: Please co	mment below.		
(72) Scoured	0 Severe,	0 Moderate,	0 None,	
	o Others: Please co	mment below.	/	
		/		
(73) Sedimentation	0 Severe,	0 Moderate,	0 None,	
(73) Sedifficitation	O Severe, o Others: Please co	0 Woderate,	0 None,	
	o Others: Please co	mment below.		
(74) Rust	0 Severe,	0 Moderate,	0 None,	
	Others: Please co	mment below.		
		/		
(75) Other Damage	o Please describe b	alow		
(73) Other Damage	o Flease describe o	elow.		
(76) No. of Damaged Aqueduct	sets			
F.1.3.6 Bridge				
	0 6	/ Madarata	O. None	
(77) Crack	0 Severe,	0 Moderate,	0 None,	
	o Others: Please co	mment below.		
(78) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	
(78) Deformation/Since	o Others: Please co		0 None,	
	o Others. Flease 20	illinient below.		
(79) Scoured	0 Severe,	\ 0 Moderate,	0 None,	
	o Others: Please co	mment below.		
(80) Other Damage	o Please describe b	elow		
(co) cure Dumage	/	0.0		
	<del>                                     </del>			
(81) No. of Damaged Bridge	sets			
F.1.3.7 Drainage Crossing				
(82) Crack	0 Severe,	0 Moderate.	0 None,	
(02) Cluck	/ <del></del>		o None,	
/	o Others: Please co	mment below.		
(83) Deformation/Slide	0 Severe,	0 Moderate,	0 None,	
(60, 2111111111111111111111111111111111111	o Others: Please co	mment below		
	o others. I rease co	minent below.	\	
/	0 0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
(84) Leak	0 Severe,	0 Moderate,	\ 0 None,	
	o Others: Please co	mment below.		
/				
(85) Scoured	0 Severe,	0 Moderate,	None,	
/	o Others: Please co	mment below.		
/	5 5 mors. I rease co		<del>\</del>	
(00) 0, 11, 11, 11	0 0	0   Mardanata	I o I Nistra	
(86) Sedimentation	0 Severe,	0 Moderate,	0 None,	
/	o Others: Please co	mment below.		
/			\	
(87) Other Damage	o Please descri	ibe below.		
<b>1</b>			\	
(99) No of Damas - 1 During - Con '	1			
(88) No. of Damaged Drainage Crossing	sets		•	\
				\
<del></del>	+			
1/				\

Canal . Dimension and Facilities Function	nal Survey	-								
A.1 General Information										
(1) Name of NIS	Aganan RIS		(6)	Total Lengtl	of Main C	Canal			11.85	km
(2) Completed Year	Jan. 1925		(7)	No. of Later	al Canal				4	lines
(3) Construction Cost	No Data	Pesos	(8)	Total Lengtl	of Lateral	Canal			21.35	km
(4) Irrigation Service Area	4,467	ha	(9)	No. of Sub-	ateral Cana	ıl			6	lines
(5) No. of Main Canal	1	lines	(10	) Total Leng	th of Sub-la	ateral			24.44	km
. Present Structural Situation of M	ain Canal				,					
B.1 Main Canal						٠.				
B.1.1 Structure of Main Canal										
(1) Irrigation Service Area	4,467	ha	(6)	No. of Relat	ed Structur	es				
(2) Max. Design Discharge	8.25	m3/s		Structure	No.	unit	S	tructure	No.	un
(3) Total Length of Main Canal	11.85	km		Check Gate	6	sets	Aqu	educt	2	set
(4) Length of Lining Canal	10.18	km		Drop	2	sets	Brid	lge	1	set
(5) Length of Non-lining Canal	1.67	km		Siphon	0	sets	Drain:	age Crossing	1	set
B.1.1.1 Maximum Cross-section										,
(7) Max. Designed Discharge	8.25	m3/s	(10	) Max. Wate	r Depth				1.44	m,
(8) Width of Canal Bottom	5.00	m	(11	) Side Slope					1: 1.5	
(9) Height of Side-wall	4.00	m	(12	) Max. Velo	city				0.80	m/s
B.1.1.2 Minimum. Cross-section										
(13) Max. Designed Discharge	0.25	m3/s	(16	) Max. Wate	r Depth				0.37	m
(14) Width of Canal Bottom	1.50	m	(17	) Side Slope			4.		1: 1.5	
(15) Height of Side-wall	3.00	m	(18	) Max. Velo	city				0.33	m/s
B.1.2 Condition of Main Canal	0%	Slightly	.30	)% N	1oderate	7	0%	Severe	100	0%
(1) Damaged	33 %						Ţ			
(2) Leak	50 %									1
(3) Sedimentation	80 %									1
B.1.3 Condition of Related Structu	res	· · · · · · · · · · · · · · · · · · ·					-			
B.1.3.1 Check Gate	0%	Slightly	30	)% N	1oderate	7	0%	Severe	100	0%
(1) Damaged	17 %						T			
(2) Leak	50 %						$\top$			1
(3) Sedimentation	80 %									1
(4) Rust	80 %									1
B.1.3.2 Drop	0%	Slightly	3(	)% N	1oderate	. 7	0%	Severe	100	0%
(5) Damaged	0 %									
(6) Leak	50 %									1
(7) Sedimentation	80 %									1
B.1.3.4 Aqueduct	0%	Slightly	30	)% N	1oderate	7	0%	Severe	100	0%
(11) Damaged	43 %						T			
(12) Leak	80 %									1
(13) Sedimentation	0 %					-				1
(14) Rust	80 %									1
B.1.3.5 Bridge	0%	Slightly	30	)% N	1oderate	7	0%	Severe	100	0%
(15) Damaged	0 %	TIT					T			
(16) Scoured	0 %						1			1
B.1.3.6 Drainage Crossing	0%	Slightly	30	)% N	1oderate	7	0%	Severe	100	)%
(17) Damaged	33 %	GJ								
(18) Leak	0 %									1
(19) Sedimentation	0 %	1					T			1
. Present Structural Situation of La	<del></del>	iteral A								
C.1 Lateral A				i p						
C.1.1 Structure of Lateral A and S	u-lateral A			1 1		×				
(1) Total Irrigation Service Area	1,379	ha	(9)	No. of Relat	ed Structur	es				
(2) Max. Design Discharge	No Data		10)	Structure		unit	S	tructure	No.	un
(3) Total Length of Lateral A		km	+	Head Gate	4	sets	-	educt	0	set
(3) I Otal Leligii Ol Latelal A		km		Check Gate			Brid		5	<del> </del>
(1) I anoth of Lining Com-1 T -+ 1			4	жек стиге	1 4	sets	סווטון	IKC .	J	set
(4) Length of Lining Canal on Lat. A			-			acta	<u> </u>		^	504
(4) Length of Lining Canal on Lat. A (5) Length of Non-lining Canal on Lat. A (6) Total Length of Sub-lat. A	6.26	km		Drop Siphon	1 0	sets	Draina	age Crossing	0	set

(10) Max. Designed Discharge		1	No Data	a m3/s	(13	3) Max. Water	Depth				No Data	a m
(11) Width of Canal Bottom			No Data	-		4) Side Slope	p	-			No Data	
(12) Height of Side-wall			No Data			5) Max. Veloci	tv				/ALUE!	
C.1.1.2 Minimum. Cross-section of	Latera									<u> </u>		
(16) Max. Designed Discharge			No Data	<del></del>		9) Max. Water	Depth				No Data	a m
(17) Width of Canal Bottom		]	No Data	a m	<del></del>	O) Side Slope	•				No Data	1
(18) Height of Side-wall		]	No Data	a m		l) Max. Veloci	ty			#1	/ALUE!	! m/s
C.1.2 Condition of Lat. A and Sub	-lat. A	0	)%	Slightly		~-~~	derate	7	0%	Severe	: 10	0%
(1) Damaged	50	%										T
(2) Leak	50	%										1
(3) Sedimentation	80	%										1
C.1.3 Condition of Related Structu	ıres											
C.1.3.1 Head Gate		0	)%	Slightly	- 3	0% Mc	derate	7	0%	Severe	10	0%
(1) Damaged	50	%										
(2) Leak	50	%										7
(3) Sedimentation	80	%										]
(4) Rust	80	%										1
C.1.3.2 Check Gate		0	)%	Slightly	3	0% Mo	derate	7	0%	Severe	10	0%
(5) Damaged	50	%										
(6) Leak	50	%										]
(7) Sedimentation	80	%										]
(8) Rust	80	%										1
C.1.3.3 Drop		0	)%	Slightly	3	0% Mc	derate	7	0%	Severe	10	0%
(9) Damaged	50	%							1			
(10) Leak	50	%										]
(11) Sedimentation	80	%					,					<u> </u>
C.1.3.6 Bridge		0	%	Slightly	3(	0% Mo	derate	7	0%	Severe	10	0%
(19) Damaged	50	%										
(20) Scoured	50	10/										
D. Present Structural Situation of La D.1 Lateral B				ateral B								<u>L,</u>
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S	ateral B	and	Sub-la	*	(9)	No. of Related	Structur	es				
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area	ateral B	and	2,488	ha	(9)	No. of Related	7			Structure	No.	un
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge	ateral B	and	2,488 2.81	ha m3/s	(9)	Structure	No.	unit	-	Structure	No.	-
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B	ateral B	and	2,488 2.81 8.26	ha m3/s km	(9)	Structure Head Gate	No.	unit	Aqu	ieduct	0	set
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B	ateral B	and	2,488 2.81 8.26 0.20	ha m3/s km km	(9)	Structure Head Gate Check Gate	No. 5	unit sets sets	Aqu Brio	ieduct Ige	0	set
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B	ateral B	and	2,488 2.81 8.26 0.20 8.06	ha m3/s km km km	(9)	Structure Head Gate Check Gate Drop	No. 5 5 3	unit sets sets sets	Aqu Brio	ieduct	0	set
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B	ateral B	and	2,488 2.81 8.26 0.20 8.06 12.87	ha m3/s km km km km	(9)	Structure Head Gate Check Gate	No. 5	unit sets sets	Aqu Brio	ieduct Ige	0	set
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B	ateral B	and	2,488 2.81 8.26 0.20 8.06 12.87 0.00	ha m3/s km km km km km	(9)	Structure Head Gate Check Gate Drop	No. 5 5 3	unit sets sets sets	Aqu Brio	ieduct Ige	0	set
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B	u-latera	and l B	2,488 2.81 8.26 0.20 8.06 12.87 0.00	ha m3/s km km km km km km		Structure Head Gate Check Gate Drop	No. 5 5 3	unit sets sets sets	Aqu Brio	ieduct Ige	0	set
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of	u-latera	and l B	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87	ha m3/s km km km km km km hm km		Structure Head Gate Check Gate Drop Siphon	No. 5 5 3 0	unit sets sets sets	Aqu Brio	ieduct Ige	0 1 0	set set
D. Present Structural Situation of Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge	u-latera	and l B	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Subt	ha m3/s km km km km km hm lateral B m3/s	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Structure Head Gate Check Gate Drop Siphon	No. 5 5 3 0	unit sets sets sets	Aqu Brio	ieduct Ige	0	set set m
D. Present Structural Situation of Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom	u-latera	and l B	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87	ha m3/s km	(13	Structure Head Gate Check Gate Drop Siphon ,  3) Max. Water 1	No. 5 5 3 0 0 Depth	unit sets sets sets	Aqu Brio	ieduct Ige	1.38 1:1.5	set set
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall	u-lateral  U-lateral	and IB Ba	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Sub 2.81 3.50 2.00	ha m3/s km	(13 (14 (15	Structure Head Gate Check Gate Drop Siphon	No. 5 5 3 0 0 Depth	unit sets sets sets	Aqu Brio	ieduct Ige	1.38	set set
D. Present Structural Situation of Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of	u-lateral  U-lateral	and IB Ba	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub	ha m3/s km	(13) (14) (15)	Structure Head Gate Check Gate Drop Siphon ,  3) Max. Water 1	No. 5 5 3 0 0 Depth	unit sets sets sets	Aqu Brio	ieduct Ige	1.38 1:1.5	set set set m
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall	u-lateral  U-lateral	and IB Ba	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub	ha m3/s km km km km km km lateral B m3/s m m lateral B m3/s	(13 (14 (15 <b>3</b>	Structure Head Gate Check Gate Drop Siphon  3) Max. Water 1 3) Side Slope 5) Max. Velocit	No. 5 5 3 0 0 Depth	unit sets sets sets	Aqu Brio	ieduct Ige	1.38 1:1.5 0.37	set set set m/s
D. Present Structural Situation of Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge	u-lateral  U-lateral	and IB Ba	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Sub 2.81 3.50 2.00 and Sub 0.13	ha m3/s km km km km km km m3/s m m m m3/s m	(13 (14 (15 <b>3</b> (19 (20	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Welocit Max. Velocit Max. Water	No. 5 5 3 0 Depth	unit sets sets sets	Aqu Brio	ieduct Ige	1.38 1:1.5 0.37	set
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom	u-lateral  Lateral	B a	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00	ha m3/s km km km km km km m3/s m m m m3/s m	(13 (14 (15 (19 (20 (21	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Velocit Max. Velocit Max. Water Max. Velocit Max. Velocit Max. Velocit Max. Velocit	No. 5 5 3 0 Depth	unit sets sets sets sets	Aqu Brio	ieduct Ige	1.38 1:1.5 0.37 0.22 1:1.5	m m/s
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall	u-lateral  Lateral  Lateral	B a	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00 1.50	ha m3/s km km km km km km m3/s m m m m	(13 (14 (15 (19 (20 (21	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Velocit Max. Velocit Max. Water Max. Velocit Max. Velocit Max. Velocit Max. Velocit	No.   5   5   3   0	unit sets sets sets sets	Aqu Bric Drain	educt lge age Crossing	1.38 1:1.5 0.37 0.22 1:1.5	m m/s m/s
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.2 Condition of Lat. B and Sub-	Lateral Lateral Lateral Lateral	B a	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00 1.50	ha m3/s km km km km km km m3/s m m m m	(13 (14 (15 (19 (20 (21	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Velocit Max. Velocit Max. Water Max. Velocit Max. Velocit Max. Velocit Max. Velocit	No.   5   5   3   0	unit sets sets sets sets	Aqu Bric Drain	educt lge age Crossing	1.38 1:1.5 0.37 0.22 1:1.5	m m/s m/s
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.1.2 Condition of Lat. B and Sub- (1) Damaged	Lateral Lateral Lateral Lateral	B a	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00 1.50	ha m3/s km km km km km km m3/s m m m m	(13 (14 (15 (19 (20 (21	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Velocit Max. Velocit Max. Water Max. Velocit Max. Velocit Max. Velocit Max. Velocit	No.   5   5   3   0	unit sets sets sets sets	Aqu Bric Drain	educt lge age Crossing	1.38 1:1.5 0.37 0.22 1:1.5	m m/s m/s
D. Present Structural Situation of La D.1 Lateral B  D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.2 Condition of Lat. B and Sub- (1) Damaged (2) Leak	Lateral Lateral Lateral Lateral 50 50 80	B a B a %	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00 1.50	ha m3/s km km km km km km m3/s m m m m	(13 (14 (15 (19 (20 (21	Structure Head Gate Check Gate Drop Siphon  Siphon  Siphon  Max. Water Max. Velocit Max. Velocit Max. Water Max. Velocit Max. Velocit Max. Velocit Max. Velocit	No.   5   5   3   0	unit sets sets sets sets	Aqu Bric Drain	educt lge age Crossing	1.38 1:1.5 0.37 0.22 1:1.5	m m/s m/s
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.1.2 Condition of Lat. B and Sub- (1) Damaged (2) Leak (3) Sedimentation	Lateral Lateral Lateral Lateral 50 50 80	Ba Ba  O  %	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 ind Sub 2.81 3.50 2.00 ind Sub 0.13 1.00 1.50	ha m3/s km km km km km km m3/s m m m m	(13) (14) (15) (19) (20) (21) 30	Structure Head Gate Check Gate Drop Siphon  3) Max. Water 1 3) Side Slope 3) Max. Velocit 3) Max. Water 1 3) Side Slope 4) Max. Water 1 5) Max. Water 1 6) Max	No.   5   5   3   0	unit sets sets sets sets 7	Aqu Bric Drain	educt lge age Crossing	1.38 1:1.5 0.37 0.22 1:1.5 0.43	m m/s m/s
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.1.2 Condition of Lat. B and Sub- (1) Damaged (2) Leak (3) Sedimentation D.1.3 Condition of Related Structure	Lateral Lateral So	Ba Ba  O  %	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Sub 2.81 3.50 2.00 and Sub 0.13 1.00 1.50	ha m3/s km km km km km b-lateral B m3/s m m Slightly	(13) (14) (15) (19) (20) (21) 30	Structure Head Gate Check Gate Drop Siphon  3) Max. Water 1 3) Side Slope 3) Max. Velocit 3) Max. Water 1 3) Side Slope 4) Max. Water 1 3) Side Slope 6) Max. Velocit 6) Max. Velocit 7) Max. Water 1 8) Side Slope 9) Max. Velocit 100% 100% 100% 100% 100% 100% 100% 100	No. 5 5 3 0 Depth  Depth  y derate	unit sets sets sets sets 7	Aqu Brid Drain	seduct lige age Crossing Severe	1.38 1:1.5 0.37 0.22 1:1.5 0.43	m/s
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.2 Condition of Lat. B and Sub- (1) Damaged (2) Leak (3) Sedimentation D.1.3 Condition of Related Structu D.1.3.1 Head Gate (1) Damaged	Lateral Lateral So	B a B a 0 % % % % % 0	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Sub 2.81 3.50 2.00 and Sub 0.13 1.00 1.50	ha m3/s km km km km km b-lateral B m3/s m m Slightly	(13) (14) (15) (19) (20) (21) 30	Structure Head Gate Check Gate Drop Siphon  3) Max. Water 1 3) Side Slope 3) Max. Velocit 3) Max. Water 1 3) Side Slope 4) Max. Water 1 3) Side Slope 6) Max. Velocit 6) Max. Velocit 7) Max. Water 1 8) Side Slope 9) Max. Velocit 100% 100% 100% 100% 100% 100% 100% 100	No. 5 5 3 0 Depth  Depth  y derate	unit sets sets sets sets 7	Aqu Brid Drain	seduct lige age Crossing Severe	1.38 1:1.5 0.37 0.22 1:1.5 0.43	set
D. Present Structural Situation of La D.1 Lateral B D.1.1 Structure of Lateral B and S (1) Total Irrigation Service Area (2) Max. Design Discharge (3) Total Length of Lateral B (4) Length of Lining Canal on Lat. B (5) Length of Non-lining Canal on Lat. B (6) Total Length of Sub-lat. B (7) Length of Lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B (8) Length of Non-lining Canal on Sub-lat. B D.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge (11) Width of Canal Bottom (12) Height of Side-wall D.1.1.2 Minimum. Cross-section of (16) Max. Designed Discharge (17) Width of Canal Bottom (18) Height of Side-wall D.1.2 Condition of Lat. B and Sub- (1) Damaged (2) Leak (3) Sedimentation D.1.3 Condition of Related Structu D.1.3.1 Head Gate	Lateral Lateral So So So So So So	B a B a 0 % % % % %	2,488 2.81 8.26 0.20 8.06 12.87 0.00 12.87 and Sub 2.81 3.50 2.00 and Sub 0.13 1.00 1.50	ha m3/s km km km km km b-lateral B m3/s m m Slightly	(13) (14) (15) (19) (20) (21) 30	Structure Head Gate Check Gate Drop Siphon  3) Max. Water 1 3) Side Slope 3) Max. Velocit 3) Max. Water 1 3) Side Slope 4) Max. Water 1 3) Side Slope 6) Max. Velocit 6) Max. Velocit 7) Max. Water 1 8) Side Slope 9) Max. Velocit 100% 100% 100% 100% 100% 100% 100% 100	No. 5 5 3 0 Depth  Depth  y derate	unit sets sets sets sets 7	Aqu Brid Drain	seduct lige age Crossing Severe	1.38 1:1.5 0.37 0.22 1:1.5 0.43	set

D.1.3.2 Check Gate			)%	Slightly	30	0%	Mod	lerate	7	0%	Severe	100	)%
(5) Damaged	50	%									ļ		į
(6) Leak	50	%											
(7) Sedimentation	80	%											
(8) Rust	80	%											<u> </u>
D.1.3.3 Drop		(	)%	Slightly	30	0%	Mod	lerate	7	0%	Severe	100	)%
(9) Damaged	50	%											
(10) Leak	50	%						l					
(11) Sedimentation	80	%											
D.1.3.6 Bridge		(	)%	Slightly	3	0%	Mod	lerate	. 7	0%	Severe	100	)%
(19) Damaged	50	%						I .				-	
(20) Scoured	50	%											1
E. Present Structural Situation of La	ateral C	and	l Sub-la	teral C									
E.1 Lateral C	1 .												
E.1.1 Structure of Lateral C and S	u-latera	l C											
(1) Total Irrigation Service Area			147	ha	(9)	No. of	Related	Structur	es				
(2) Max. Design Discharge		]	No Data	m3/s		Strı	ıcture	No.	unit	Str	ucture	No.	un
(3) Total Length of Lateral C	1		1.17	km	$\top$	Head (	Gate	1	sets	Aqueo	luct	0	set
(4) Length of Lining Canal on Lat. C	7.		0.10		_	Check		0	sets	Bridge		1	se
(5) Length of Non-lining Canal on Lat. C		_	1.07		-	Drop		0	sets		Crossing	0	se
(6) Total Length of Sub-lat. C	1	, :	0.00		+	Siphor		0	sets				
(7) Length of Lining Canal on Sub-lat.C	1		0.00		-	1~2PHOI	<u></u>		500				
(8) Length of Non-lining Canal on Sub-lat.C	-		0.00										•
E.1.1.1 Maximum Cross-section of	Lateral	C											
(10) Max. Designed Discharge	Laterar		No Data			) Max	Water D	enth		Т	N	lo Data	m
(11) Width of Canal Bottom	-		No Data			) Side S		Срих				lo Data	
(12) Height of Side-wall	+		No Data	<del></del>			Velocity		1.0			ALUE!	
E.1.1.2 Minimum. Cross-section of	Lateral					) IVIUA.	VOICOLLY					HUCL:	111/3
(16) Max. Designed Discharge	Dattial		No Data			) May	Water D	enth			N	lo Data	m
(17) Width of Canal Bottom	<del></del>		No Data			) Side S		Сриг				lo Data	111
(18) Height of Side-wall	-		No Data			<del></del>	Velocity	,				ALUE!	m/s
E.1.2 Condition of Lat.C and Sub-	.L lat C		)%	Slightly		)%		erate	7	 0%	Severe	100	
(1) Damaged		%				7,0	11100	Cruto	<del></del>	1	Bevele	100	<del>// 0</del>
(2) Leak	_	+									<del> </del>		
(3) Sedimentation		%	<u> </u>				1			-			1: 1:
E.1.3 Condition of Related Structu		1/0				<u> </u>	<u> </u>				_ <u></u>		L
E.1.3.1 Head Gate	165	0	)%	Slightly	3(	0%	Mod	erate	7	0%	Severe	100	)%
(1) Damaged	17		// <b>U</b>	Digitiy		7,0 .	IVIOG	Cruto		J	Bevere	100	<u> </u>
(2) Leak	50	%											
(3) Sedimentation		%								· · · · · · · · · · · · · · · · · · ·			ł
	50	<del>%</del>					1			-			ł
(4) Rust E.1.3.6 Bridge	1 30		)%	Slightly	21	)%	Mod	erate	7	0%	Severe	100	l \0⁄_
	50	<u>%</u>	<del>,</del>	Slightly	)ر	J / 0	IVIOU	CIAIC		0 / 0	Severe	100	7/0
(19) Damaged		%	<del>                                     </del>							<del> </del>	1	,	
(20) Scoured  Present Structural Situation of La				torol D							1		
. Present Structural Situation of La F.1 Lateral D	iterai D	апи	Sub-ia	terar D					•				
	1-4						-						
F.1.1 Structure of Lateral D and S  (1) Total Irrigation Service Area	u-iatera	עו	453	ha	(0)	No of	Related	Structur	ac	<del></del>			-
(2) Max. Design Discharge				m3/s	(3)		icture	No.	unit	Str	ıcture	No.	un
			4.65			Head (				Aqued			
(3) Total Length of Lateral D (4) Length of Lining Canal on Lat. D	1		0.00		+	Check		1	sets sets	Bridge		0	se
· · · · · · · · · · · · · · · · · · ·	+		4.65			<del></del>	Jaic			<u>-</u>		0	se
(5) Length of Non-lining Canal on Lat. D	-					Drop		1	sets	Drainage	Crossing	U	se
(6) Total Length of Sub-lat. D	-		0.52			Siphor	<u> </u>	0	sets	<u> </u>			
(7) Length of Lining Canal on Sub-lat. D	-		0.00						-				
(0)	<u>.L</u>	-	0.52										
(8) Length of Non-lining Canal on Sub-lat. D	-	110	nd Sub	-ıateral D					-				
F.1.1.1 Maximum Cross-section of	Lateral	υa			1								
F.1.1.1 Maximum Cross-section of (10) Max. Designed Discharge	Lateral	υa	0.86	m3/s			Water D	epth		_	· · · · · · · · · · · · · · · · · · ·	0.66	m ·
F.1.1.1 Maximum Cross-section of	Lateral	υa		m	(14	) Side S						0.66 1:1.5 0.50	<u>.</u>

(16) Max. Designed Discharge		0.08 m3/s		. Water Depth			0.22 m
(17) Width of Canal Bottom		0.70 m	(20) Side				1:1.5
(18) Height of Side-wall		1.00 m	(21) Max	. Velocity			0.37 m
F.1.2 Condition of Lat. D and Sub-		Slightly	30%	Moderate	70%	Severe	100%
(1) Damaged	50 %						
(2) Leak	50 %						
(3) Sedimentation	80 %						
F.1.3 Condition of Related Structu							,
F.1.3.1 Head Gate	0%	Slightly	30%	Moderate	70%	Severe	100%
(1) Damaged							
(2) Leak	80 %						-
(3) Sedimentation	50 %	-					
	80 %						
(4) Rust	<u>  80   76  ≡</u>   0%	CI: -1-41-	30%	Moderate	70%	Severe	100%
7.1.3.2 Check Gate		Slightly	30%	Moderate	/0%	Severe	100%
(5) Damaged	50 %						
(6) Leak	80 %						
(7) Sedimentation	50 %						
(8) Rust	80 %						
7.1.3.3 Drop	0%	Slightly	30%	Moderate	70%	Severe	100%
(9) Damaged	50 %						
(10) Leak	50 %						/ -
(11) Sedimentation	80 %						
(11) Sedimentation	80   70						
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		1000			1		
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	r O&M (NIA	's property)									
Fac	ility	Year of Co	onstruction	Condition*		Necessary (	Countermeas	sure (if any)			
Office		19	79	3	Needs major	r repair					
Workshop		19	79	3	do						
Gate Keepe	r's House	19	79	3	do						
Guesthouse		19	79	3	do						
* In the colu	mn of "Condit	ion" <b>number</b>	the box bases	d on the choic	es as "1 Verv	Well" "2 Wel	1" "3 No Goo	d" or "4 Poor'	,		
(2) Transport			_ine con case.			., ., 2, ,, .,	1, 511.0 000	*Add more			
Equipment		Motorbike	Bicycle	Truck	Dump truck	Bulldozer	Backhoe	Tractor Shovel	Grad		
Number	4	15	-	1	2	1	2	-	2		
Condition*	2x2, 2x4	10x2, 5x4	-	4	1	2	2, 4	-	2,		
Equipment		10.72, 3.74		4	1	2	2, 4		۷,۰		
Number	1										
Condition*											
	mn of "Condit	ion" number	the hov bace	d on the choic	ec ac "1 Very	Wall" "2 Wal	1" "3 No Goo	d" or "4 Poor'	1		
(3) Office Equ		ion , <u>number</u>	_the box bases	u on the choic	es as 1. very	Well , 2.Wel	1 , 3.110 000	*Add more			
Equipment		Fax	Xerox	Computer	Printer	Degi-camera	Camera	Typewriter	n your		
Number	3	2	1	8	6	-	1	5			
Condition*	2	2,4	4	5x2, 3x4	5x2, 4		2	4x2, 4			
Committee	mn of "Condit	,				Well", "2.Wel		ŕ	'.		
* In the colu								*Add more	if vou l		
	ipment										
(4) O&M Equ	·	Level	Hand level	Staff	Tape measure	Tool kit	Manual Transit		)		
(4) O&M Equ	ipment Theodolite	Level	Hand level	Staff -	Tape measure	Tool kit	Manual Transit		,		
(4) O&M Equipment	Theodolite				•		Manual Transit				
(4) O&M Equ Equipment Number Condition*	Theodolite	-	-	-	1	4 2					
Equipment Number Condition* * In the column (5) Frequency * In the line	Theodolite - mn of "Condit of Regular N of "Frequency	ion", <u>number</u> Maintenance	the box based of Equipme	- d on the choic	1 1 es as "1.Very	4 2 Well", "2.Wel	l", "3.No Goo	d" or "4.Poor			
(4) O&M Equipment Number Condition* * In the colu: (5) Frequency * In the line: "6.Yearly" o.	Theodolite - mn of "Condit of Regular N of "Frequency	ion", <u>number</u> Maintenance	the box based of Equipme	- d on the choic	1 1 es as "1.Very	4 2 Well", "2.Wel	l", "3.No Goo	d" or "4.Poor			

1. N	<b>Iaintenanc</b>	e							
A.1	General	* Number t	the box base	d on the choi	ices.				
(1	) Utilization	n of Operation	n Manual		V	3	1.Yes	2.No	3.N.A. (not available
(2	) Utilization	n of Maintena	ance Manual			3	1.Yes	2.No	3.N.A. (not available
(3	) Utilization	n of Planning	Manual for	PoW		3	1.Yes	2.No	3.N.A. (not available
(4	) Record K	eeping of Pro	ject Docume	nt & Drawin	ngs	2	1.Complete	2.Not enough	3.N.A. (not available
. (5	) Planning	Method of Pro	ogram of Wo	orks' Compo	nents	1, 2, 3			
		1.NISO's ob	servation		2.Consultat	ion with IA	•	3.Based on	requests from IA
(6	) Frequency	of Regular I	nspection			2	1.Daily	2.Weekly	3.Monthly
		and Activity							
							dy", "3.Montl	ıly", "4.Quater	ly", "5.Semiannually",
ı	Facility	r "7.None". In				Canal structure	Road	1	
Ì	Frequency*	<u> </u>	4	4	7	4	6		
	Activity	Check, greasing	Clearing	Clearing	-	Sand-bagging			
	Irrigation		Clearing	Clearing		Sand-bagging	ratching	<u> </u>	
	.1 Intake I	<del></del>	* Number t	ha hay haga	d on the choi				
	echanical l		Number	ne oux basec	i on the choi	ices.			
		Debris arour	nd Gates	. 7	1	1.Enough	2.Not enough	2 None	· .
	) Greasing (		iu Gaies		1	1.Weekly			4.Annually 5.None
		intenance for De	efects of Engine	(or Motor)	1	1.Enough	2.Not enough	· · · · · · · · · · · · · · · · · · ·	4.Aimuany 5.None
		n Steel Gates		(or twotor)	1	1.Enough	2.Not enough	<del></del>	
	version Da			1		1.Enough	2.Not enough	3.None	
_		n in front of I	ntaka		3	1.No.Need	2 Enough	3.Not enough	4 None
		tation of Rive		•	3	1.No.Need		3.Not enough	
		r Riverbed De			3	1.No.Need		3.Not enough	
	ımp Statio		gradation (do	Wilst Cull')		1.110.11004	Z.Lilough	J.140t Chough	T.None
		Sediment & D	lebris in front	of Intake		1.No.Need	2 Enough	3.Not enough	4 None
	<del> </del>	tation of Rive				1.No.Need	<del></del>	3.Not enough	
		n Pump Syster		5	Ž.	1.Enough	2.Not enough		4.1vone
	·	ce of Pump Sy				1.No.Need			4 None
		nt of Deteriora				1.No.Need		3.Not enough	
		ce of Power Su				1.No.Need		3.Not enough	
	eservoir Da		ipply System			1.140.14ccu	Z.Lilough	J.140t Chough	4.14OHC
		n on Unusual	Phenomena			1.No.Need	2 Frough	3.Not enough	4 None
		on Unusual	· · · · · · · · · · · · · · · · · · ·			1.No.Need		3.Not enough	<del></del>
	<u> </u>	n on Mechan				1.No.Need		3.Not enough	
	<del></del>	n on Electron				1.No.Need		3.Not enough	
	·	nce of Devic				1.No.Need		3.Not enough	<del></del>
	· · · · · · · · · · · · · · · · · · ·	n Sedimentati		zoir .		1.No.Need		3.Not enough	
		on in Reservo		,OII		1.No.Need		<del></del>	
	<del> </del>	of Dam Obse		itias				3.Not enough	4.1NOHE
	<del></del>	<del></del>	·				2.Not enough		
	L) Function	of Dam Obse	a valion raci	nues		1.Enough	2.Not enough	3.None	
	2) A==1:	of Dam Obse		. [		1.Enough	2.Not enough	2 Mar-	

A.2.2 Others		<u> </u>						
(25) Implementation of C	Canal Clearing	······································	2	1.Enough	2.Not enough	3.None		
(26) Implementation of C	Canal Desiltati	on	2	1.Enough	2.Not enough	3.None		
(27) Maintenance of Far			2	1.Enough	2.Not enough	3.None		
(28) Implementation of F	River Desiltation	on	3	1.Enough	2.Not enough	3.None		
(29) Operation for Norm	al Flood		1	1.Smooth	2.Not much	<del></del>		
(30) Inspection after Floo	<del>,</del>		1	1.Enough	2.Not enough	3.None		
(31) Calamity Prevention			2	1.Enough	2.Not enough	3.None		
(32) Countermeasure for	Calamity		2	1.Ready	2.Not much	3.Not at al		
(33) Record of River Dis	charge		2	1.Yes	2.No	3.N.A. (no	t available)	
(34) Record of Intake Di	scharge	· · · · · · · · · · · · · · · · · · ·	3	1.Yes	2.No	3.N.A. (no	t available)	
B. On-Farm Water Mana	gement Infor	mation						
B.1 Drought * Number	the box base	d on the choi	ices or fill a	ppropriate fig	gure.			
(1) Coordination during l	Drought		2	1.Difficult	2.Not Diffic	cult	3.No proble	em
(2) Irrigation Method dur	ing Drought		- 2	1.None	2.Rotation			
				3.Others, ex	xplain;			
(3) Intake Discharge duri	ng Drought	no data	m3/s	<b>\</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		:	,	
(4) Irrigation Area during	g Drought	800	ha					
B.2 Others							· · · · · · · · · · · · · · · · · · ·	
(1) Compliance with Cro	pping Pattern		2	1.Enough	2.Not enough	3.None		
(2) Compliance with War	ter Distributio	n Plan	1	1.Enough	2.Not enough	3.None		
(3) Condition of Over-wa	ter-taking	2	1.Rampant	2.Not much	3.None			
(4) Condition of Illegal V	Vater Taking		2	1.Rampant	2.Not much	3.None		
Evaluation of "A. Mainte	nance" and "	B. On-Farn	n Water Ma	anagement I	nformation'	•		
* Every item is graded from	om 0 to 10. Th	ne most posit	ive condition	n is rated as	10, while the	most negat	ive state is ra	ted as 0.
* (5) of "B.1" is rated acc	cording to the	highest answ	ver of farme	rs' involvmer	nt, when prur	al answers a	re chosen.	
* As for (7) of "B.1", the	average value	of frequenc	y is rated.			<u> </u>		
A. Maintenance		·	·	·				
A.1 General	(1)	(2)	(3)	(4)	(5)*	(6)	(7)*	
	0	0	0	5	10	5	4.4	
A.2 Irrigation Facility			· · · · · · · · · · · · · · · · · · ·	<u>,</u>	·		,	·
A.2.1 Intake Facility	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	10	10	10	10	3.3	3.3	3.3	
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
A.2.2 Others	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
	5	5	5	0	10	10	5	5
	(33)	(34)						
	5	0						
B. On-Farm Water Mana	gement Infor	mation			<u>. 1</u>		. *	
B.1 Drought	(1)	(2)		4 .				
	5	10					- · ·	
<b>B.2 Others</b>	(1)	(2)	(3)	(4)				
	5	10	5	5				
The average rate of "A."	and "B."							

#### C. Last 5 Years Record of Program of Works (PoWs)

Please fill the sheet, "<u>5.2 C. PoW summary</u>", based on the actually approved and implemented PoWs in the last 5 years. The aim of this information is to categorize the work items implemented in the past, and to measure economical amount of each work item annually, for future planning. Filling procedures are as followings.

- 1. Prepare all the PoWs in the last 5 years.
- 2. Each work item of a PoW should be categorized into one of the combinations in the table below.

No	Major Work Item	Unit
1	Desilting, Canal	km
2	Desilting, Drainage	km
3	Canal Lining	m
4	Road Surfacing	km
5	Road Concreting	m
6	Dam Repair	LS
7	River Diversion	LS
-8	Drainage Improvement	m
9	Facility Improvement	site
10	Institutional Development	LS
11	Others	LS

- 3. Fill the sheet, "5.2 C. PoW summary", referring to the sample sheets based on the actual PoWs.
- \* The sheet, "Sample 5.2 C. PoW", shows components of actual PoWs. And the sheet,
- "Sample 5.2 C. PoW summary" is the filled form of PoW summary, based on the information of the
- "Sample 5.2 C. PoW" sheet. Refer to "Description Guidelines for NIS Inventory Format" for filing structure. The sheet, "Sample 5.2 C. PoW", is just a sample to show PoWs' components as reference, so it is not necessary to make.
- \* The amount is the total direct cost base. Refer to the sheet, "5.2 C. PoW summary" for other details.
- 4. Calculations and graphs in "5.2 C. PoW analysis" sheet will be automatically obtained, when "V.2 C. PoW summary" is properly filled.

#### D. Collaboration with Other Agencies

(1) Last 5 Years Record of Maintenance, Rehabilitation and Improvement (MRI) Works Supported by LGUs

	Year	Target Facility & Location of Works, and Major Work Items	Volume of Works	Cost ( <u>'000 P</u> )	Source of Fund (Program & Project)		
	2003	Farm-to-Market Road	4 km		Rotary Club of Iloilo through Mun.San Miguel		
	2000	Construction of Benchflume		10,000	CARP IC		
,							

(2) Any Other Collaboration with LGU/Other Organization (not only facility rehabilitation but also agricultural extension, etc.)

Year	Description of Collaboration with LGU/Other Organization
2005-1996	JOCV (Japan Overseas Cooperation Volunteer), Dispatching volunteers for technical services
2005	Aus-Aid PACAP, IA support; productivity development, production and palay trading, organic fertilizer production: 3,500,000 Pesos in total (Aganan RIS)
	JICA/JOCV, Installation of Ricemill: 1,000,000 Pesos (Aganan RIS)
2004	Govt. of Japan/National Agricultural Food Council, Rehabilitation of Aganan River Irrigation System: 52,000,000 Pesos (Aganan RIS) (Pledged but not implemented yet as of October 2005)
	NIA/JICA Expert, Office equipment supply, staff support, workshops: 887,850 Pesos (Aganan RIS)

	Iloilo CODE, Peace & Equity Foundation, Enterprise Development Workshop to IA Federation (Aganan
2003	Aus-Aid / PACAP, Approval of Micro-financing and Rice Trading Business for IAs: 1,200,000 Pesos (Aganan RIS)
	DA, Hybrid Production (Aganan RIS)
	NIA/JICA Expert, In Country Training (Manila)- Batch 3 (IA President, IDO): 140,000 Pesos (Aganan R
	Ditt. D. C. C. 1 D
	Philippine Business for Social Progress & NIA/JICA Expert, Technology Training Course on Integrated Farming System: 305,000 Pesos (Aganan RIS)

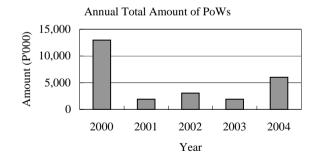
Inventory Survey for Aganan RIS

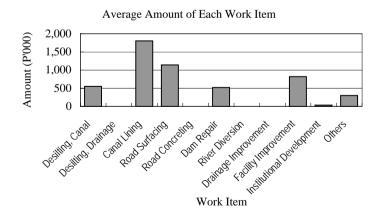
Part V.2 C. PoW analysis, P.1/1

### Analysis of Last 5 Years PoWs

Name of NIS	Aganan-S	Aganan-Sta.Barabara RIS			6				
Item	Year					Total	Average	Cost/SA	Cost/FUSA
	2000	2001	2002	2003	2004			Peso/ha	Peso/ha
Number of PoWs	3	3	2	1	1	10	2	-	-
Annual Total Amount ('000 Pesos)	12,967	1,918	3,062	1,901	6,009	25,857	5,171	626	687

Work Item ('000 Pesos)	2000	2001	2002	2003	2004	Total	Average	Share (%)	Rank	
1 Desilting, Canal	672	286	0	1,806	0	2,764	553	11	4	Total Share
2 Desilting, Drainage	0	0	0	0	0	0	0	0	8	of Rank 1-3
3 Canal Lining	9,002	0	0	0	0	9,002	1,800	35	1	73%
4 Road Surfacing	2,150	859	1,947	0	756	5,712	1,142	22	2	Total Share
5 Road Concreting	0	0	0	0	0	0	0	0	8	of Rank 1-5
6 Dam Repair	0	0	0	0	2,590	2,590	518	10	5	93%
7 River Diversion	0	0	0	0	0	0	0	0	8	
8 Drainage Improvement	0	0	0	0	0	0	0	0	8	
9 Facility Improvement	1,142	773	0	0	2,192	4,107	821	16	3	
10 Institutional Development	0	0	90	96	0	186	37	1	7	
11 Others	0	0	1,025	0	471	1,496	299	6	6	
Total	12,967	1,918	3,062	1,901	6,009	25,857	5,171	100		





Inventory Survey for Aganan RIS

Part V.2 C. PoW summary, P.1/1

## Chronological Record of All Program of Works in the Last 5 Years (Direct Cost Base)

Name of NI	SO	Aganan-Sta.Barbara RIS	Region 6						
Approved Year	No	Name of Project	Fund Source *1	Work to Be Undertaken	Major Work Item *2	Location	Unit	Volume	Amount (P)
2000	1	Bench Flume	CARP APF 00		Canal Lining	Aganan: Lat.A 1,012m	m	1,012	9,001,898
						Total			9,001,898
2000	2	Road Surfacing	GAA, RRFMR		Road Surfacing	Aganan: Lat.B-3, C, D, MC,	km	25.66	2,150,453
						Total			2,150,453
2000	3	Facility Improvement	GAA, RRIDFPS		Facility Improvement		LS	1	1,142,374
					Desilting, Canal	Aganan: Lat.D-1 2km,	km	4.20	672,103
						Total			1,814,477
								Sub-total 1	12,966,828
2001	1	Road Surfacing	GAA, RRFMR		Road Surfacing	Aganan: Lat.B 4.87km,	km	6.19	,
						Total			858,863
2001	2	Facility Improvement	GAA, RRIDFPS		Facility Improvement	Aganan: Tgbak Creek, Lat.B-4,	LS	1	772,654
						Total			772,654
2001	3	Desilting Works	GAA, Reserved fund		Desilting, Canal	Aganan: MC, Lat.D	LS	1	286,000
						Total			286,000
								Sub-total 2	1,917,517
2002	1	Roadway @ Lat.B-4	GAA, RRFMR		Road Surfacing	Lat.B-4	LS	1	1,946,925
						Total			1,946,925
2002	2	Pumps	GAA, El Nino		Others	4" pumps, Aganan 6, Sta.Barbara 3	unit	9	-,
					Institutional Development		LS	1	90,000
						Total			1,114,917
								Sub-total 3	3,061,842
2003	1	RRENIS 2003	GAA, RRENIS		Desilting, Canal	Sta.Barbara: A, A-1&2, C-	km	7.50	1,805,869
					Institutional Development		LS	1	95,602
						Total			1,901,471
							•	Sub-total 4	1,901,471
2004	1	Emergency Repair, Typhoon "Chedeng"	GAA, Special		Dam Repair	Mambog & Zulueta Dam	LS	1	2,589,694
					Others	Backfill of washed out canal	m3	950	471,027
					Road Surfacing	w/ backfill of washed out road	LS	1	756,229
					Facility Improvement	Repair of Mirage Siphon	LS	1	2,191,896
						Total			6,008,846
								Sub-total 5	6,008,846
_							(	Grand Total	25,856,504

n *Figure	s in colored o	cells are cal	culated aut	omatically.				
Record								
IS	1	Aganan RIS						
Staff Assign	ed to NIS		72					
Permanent S	taff Assigned	l to NIS	30					
Engineers A	ssigned to NI	S	5					
IDOs Assigr	ned to NIS		4					
ea of NIS			4,467	ha				
Service Area	a of NIS		4,467	ha				
leted Area of	f NIS		0	ha				
s Irrigated	Area (ha) of 1	NIS		<u> </u>				
	2004	2003	2002	2001	2000	Average		
Dry	2,211	1,478	1,649	2,500	2,000	_		
Wet	3,941	3,931			3,884	3,946		
Year	6,152	5,409		6,643	5,884			
	, , , , , , , , , , , , , , , , , , ,	,	,	, , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,		
	2004	2003	2002	2001	2000	Average		
Dry	1,842	1,138	1,649	2,500	2,000	1,826		
Wet								
Year								
ars <b>Croppin</b>					,	,		
	2004	2003	2002	2001	2000	Average		
Dry	49	33	37	56	45	44		
Wet	88	88	86	93	87	88		
Year	138	121	123	149	132	132		
ars <b>Average</b>	Yield (cavan	/ha) of NIS						
	2004	2003	2002	2001	2000	Average		
Dry	79	77	84	85	84	82		
Wet	89	88	100	90	90	92		
Year	84	83	92	87	87	87		
ars ISF Colle	ection Efficie	ency (%) of	NIS					
	2004	2003	2002	2001	2000	Average		
Dry	37	33	33	40	87	46		
Wet	27	71	50	61	33	49		
Year						47		
t of NIS to I	A due to Unpa	aid Remune	ration (Peso	s)				
2003	2002	2001	2000	1999	1998	1997	1996	1995
29,441	27,653	6,751	1,917					
*Figures	in colored ce	ells are auto	matically e	xcerpted from	n the other	sheet.		-
ched sheet, "	<b>5.3 B. IA</b> ", fi	irst, then fill	the following	ngs based on i	t.			
IAs					8			
ze of Service	Area / IA				486	ha		
	ination				12	years		
ears after Org	gamzanon							
	te (No. of me	mbers/Pote	ntial No. of	farmers)	79	%		
mbership Ra					79	%		
mbership Ra	te (No. of me	nctionality S		4)	79 Average Pts	%		
	Record IS Staff Assign Permanent S Engineers A IDOs Assign ea of NIS Service Area leted Area of s Irrigated  Dry Wet Year ars Benefited  Dry Wet Year ars Cropping Wet Year ars Average  Dry Wet Year ars ISF Colle  Dry Wet Year ars Average  The Collection of NIS to Id 2003 29,441 *Figures ched sheet, " IAs	Staff Assigned to NIS     Permanent Staff Assigned Engineers Assigned to NIS     IDOS Assigned to NIS     Isolated Area of NIS     Isolated Area of NIS     Eted Area of NIS     Eted Area of NIS     Engineers Area of NIS     Engineers Area of NIS     Engineers Area of NIS     Engineers Area (ha) of 2004     Dry	Record   IS	Record   IS	Sample   S	Record   S	Record   S	Agaman RIS   Total Permanent Staff Assigned to NIS   Total Permanent Staff Assigned

## C. Past Records of Major Rehabilitation

(1) Historical Record of All Major Program of Works (PoWs), Actually Implemented and Expended More Than 5 Million Pesos, from Start of Operation to Date

Year	Items of	of Work	Project Cost	Name of Project	Source of Fund	
1 Cai	Major	Others	( <u>'000 P</u> )	rvaine of Froject		
2003	Construction of bencflume		10,000	Construction of bencflume	Carp IC	
1996	Repair of Dam ( Aganan)	Post-harvest facility, Canal Lining	570,000	Repair of Dam ( Aganan)	JICA Grant	
1983	Repair of Aganan Dam		18,135	Repair of Aganan Dam	World Bank	

# Ą

**IA List** 

Region 6

Name of NISO

Aganan-Sta.Barabara RIS

Aganan RIS

No.of each Rating O 1 VS 1 S 3 F 1 P 2

\*3 Figures of thick lined cells with shade are automatically referred to the other sheet.

	DCI VICC	Years after	NO	. of Farm	iers	Type of Contract 1/			Functionality				
	Area	Organization	Potential	Members	%	None	Type I	Type II	IMT	Others	Total	Rating 2/	Points 3/
Pasamisba	494	15	186	149	80		1	1			2	P	0
San Jose-Sto.Nino	443	6	201	152	76		1	1			2	S	2
Samicasa	379	14	260	248	95		1	1			2	О	4
Macabitu	339	14	122	110	90		1	1			2	VS	3
Macatu-an	530	14	280	165	59		1	1			2	S	2
Salambitu	742	14	275	220	80		1	1			2	S	2
Cappa	513	14	154	124	81		1	1			2	F	1
_ampacappa	450	4	360	288			1	1			2	P	0
											0		0
											0		0
											0		0
											0		0
											0		0
											0		0
											0		0
											0		0
											0		0
					######						0		0
Total	3,890	-	1,838	1,456	-	0	8	8	0	0	-	-	-
Average	486	12	230	182	79	-	-	-	-	-	2.0	-	2
	San Jose-Sto.Nino Samicasa Macabitu Macatu-an Salambitu Cappa Lampacappa Total	Pasamisba 494 San Jose-Sto.Nino 443 Samicasa 379 Macabitu 339 Macatu-an 530 Salambitu 742 Cappa 513 Lampacappa 450  Total 3,890	Pasamisba 494 15 San Jose-Sto.Nino 443 6 Samicasa 379 14 Macabitu 339 14 Macatu-an 530 14 Salambitu 742 14 Cappa 513 14 Lampacappa 450 4  Total 3,890 -	Pasamisba	Pasamisba 494 15 186 149 San Jose-Sto.Nino 443 6 201 152 Samicasa 379 14 260 248 Macabitu 339 14 122 110 Macatu-an 530 14 280 165 Salambitu 742 14 275 220 Cappa 513 14 154 124 Lampacappa 450 4 360 288  Total 3,890 - 1,838 1,456	Pasamisba       494       15       186       149       80         San Jose-Sto.Nino       443       6       201       152       76         Samicasa       379       14       260       248       95         Macabitu       339       14       122       110       90         Macatu-an       530       14       280       165       59         Salambitu       742       14       275       220       80         Cappa       513       14       154       124       81         Lampacappa       450       4       360       288       80         #######       ####################################	Pasamisba	Pasamisba	Pasamisba	Pasamisba	Pasamisba	Pasamisba	Pasamisba

<sup>1/</sup> Put "1" in corresponding cells.

<sup>\*1</sup> Add lines when necessary.

<sup>\*2</sup> Colored cells calculate necessary values automatically.

<sup>2/</sup> The Functionality Ratings are classified into; O: Outstanding, VS: Very Satisfactory, S: Satisfactory, F: Fine, and P: Poor. Put their initials as "O", "VS", "S", "F" or "P".

<sup>3/</sup> The Functionality Points are automatically calculated as; O: 4pts, VS: 3pts, S: 2pts, F: 1pt, and P: 0pt.

Table A2-2 NISs Number, Location and Related Areas by Region

			NIS	Firmed-Up	Irrigated A	Area (ha) rea in 200X	Average Be	nefited Area	Remarks (FUSA) 1/
No. F	Region	RC (NISO)		Service Area in 200X (FUSA)	Dry Season	Wet Season	Dry Season	Wet Season	
1		Upper Chico	Upper Chico	15,258	10,013	9,939	8,133	8,528	15,258
-	GAD.	Hapid IP	Hapid	2,800	1,200	1,200	652	707	2,800
3	CAR	West Apayao Abulog IS	West Apayao Abulog	4,564	2,388	2,360	2,466	2,481	4,564
		Sub-total		22,622	13,601	13,499	11,251	11,716	22,622
4			Bonga PIS-1	170	170	170	137	155	170
5			Bonga PIS-2	545	No Ope	370	No. Ope.	370	545
6			Bonga PIS-3	157	130	135	143	149	157
7			Laoag Vintar	2,286	1,800	2,100	1,410	1,955 631	2,286 630
8			Nmc Pasuquin	630	472 770	653 984	541	631	1,004
9		Ilocos Norte	Dingras	1,004 364	375	390	377	376	364
10	,	nocos Norte	Bolo Cura	550	315	550	300	434	550
11		*	Nueva Era	386	184	308	184	308	386
13			Madongan Area	2,933	407	740	1,563	2,384	2,933
14			Solsona Area	1,340	102	258	948	1,168	1,340
15			Labugaon Area	1,470	763	1,182	763	1,129	1,470
16			Papa Area	2,337	137	420	1,068	1,800	2,337
	Region 1	,	Sta. Maria-Burgos	914	40	547	40	437	914
18		Ilocos Sur	Sta. Lucia-Candon	1,555	259	1,433	259	1,433	1,555
19	1		Tagudin	1,313	1,083	1,227	1,083	1,227	1,313
20	. [	Amburayan	Amburayan	3,289	2,153	2,616	1,959	2,728	3,414
21			Ambayoan	4,045	1,240	3,310	1,240	3,310	4,045
22	.	Ambayoan Dipalo	Ambayoan-Extension						
23			Dipalo	2,002	197	1,500	203	1,045	2,002
24		Masalip	Masalip	1,548	1,183	1,200	896	866	1,548 5,703
25		Lower Agno	Lower Agno	4,134	2,928	3,660	2,309 983	2,901 1,439	2,288
26		San Fabian-Dumuloc	San Fabian	2,026 1,232	1,008 510	1,554 897	517	854	1,266
27	- 1		Dumuloc	9,467	4,460	4,615	4,262	4,415	9,467
28		Agno-Sinolacan	Agno Sinolacan	2,570	1,500	25	1,511	25	2,570
29		Sub-total	Sinotacan	48.267	22,186	30,844	22,696	31,539	50,257
30		Visitacion ,		1,400	485	878	383	860	1,400
31		Baua	Baua	1,867	875	1,201	759	338	1,867
32	-,	Banurbur	Banurbur Creek	1,087	1,479	1,180	1,000	476	1,087
33	14	Magapit Pump	Magapit PIS	10,046	8,949	4,677	5,078	3,239	10,046
34			Apayao-Abulog	10,489	8,600	7,225	7,321	6,475	10,489
35		Apayao-Abulog-Pampiona	Pamplona	35,107	0,000				
36		Dummun	Dummun	1,502	1,232	691	1,071	861	1,502
37		Zinundungan	Zinundungan	2,045	1,753	1,561	1,753	1,508	2,045
38		Baggao	Baggao (Pared)	750	710	710			2,067
	Region 2	<u> </u>	Baggao (Patanan)	1,717	1,140	716	1,514 1,537	1,286 1,433	1,974
39		Ionio-Alcala-Amulino	Ionio-Alcala-Amulino PIS	1,974	1,627	1,537	614	682	1,404
40		Lower Chico	Lower Chico RIS	1,404	1,337	1,278 1,735	1,506	1,735	2,777
41		Solana-Pinacanuan	Solana PIS Pinacanauan	2,777 880	1,712 577	577	503	523	880
42		C. D.H. C.L.	San Pablo Cabagan	1,365	905	840	512	632	1,375
43		San Pablo Cabagan Tumauini	Tumauini	3,020	2,405	2,110	1,720	1,990	3,005
45		Mallig	Mallig	2,419	1,910	1,813	1,440	1,172	2,397
46		N.V. Bagabag	Bagabag	2,010	1,339	1,350	1,243	1,230	2,010
<del></del>		Sub-total	Барагар	46,752	37,035	30,079	27,954	24,440	46,325
47		MRIIS District I	MRIIS District I	20,904	18,763	17,787	16,285	15,387	20,904
48		MRIIS District II	MRIIS District II	22,676	21,808	21,478	21,008	19,626	22,676
	MRIIS	MRIIS District III	MRIIS District III	21,703	16,984		14,777	13,464	21,703
50		MRIIS District IV	MRIIS District IV	19,512	17,900		10,585	9,721	19,512
		Sub-total		84,795	75,455	74,152	62,655	58,198	84,79
51		Nayom-Bayto	Nayom	1,835	1,514	1,695	1,514	1,695	1,835
52		. wyom-buyo	Bayto						
53	-	Camiling	Camiling	8,229	2,407	6,624	2,594	6,725	8,229
54		Tarlac-San Miguel	Tarlac	4,500	1,832	3,847	1,832	3,847	4,500
55 F	Region 3		San Miguel		1,750	830	1,350	830	2,144
56		Bucao	Bucao	2,144 403	1,350 207		207	158	
57		NEP (Nueva Ecija PIS)	NEPIS	9,303	820		820	3,279	4
58		Pampanga	Porno	1,668	1,096		783	252	
59		Porac- Gumain	Porac Gumain	1,997	942		1,260		
60			Colo				100000000000000000000000000000000000000		
62		Colo-Caulaman	Caulaman	863	.580	459	580	459	863
62			Angat	2.20	22.22	17 400	04 200	21.020	26.70
64 F	Region 3	Angat-Maasim	Maasim	26,791	23,240	17,428	24,589	21,030	26,79
65		Disalit Creek	Disalit Creek	485	470	456	351	372	
		Sub-total		58,218		The second secon		39,767	58,21
66		UPRIIS District I	UPRIIS District I	20,700					
67		UPRIIS District II	UPRIIS District II	22,302	22,036		22,036		22,302
	Impre	UPRIIS District III	UPRIIS District III	24,449					24,449
69	UPRIIS		UPRIIS District III (Vaca)						
70	1	UPRIIS District IV	UPRIIS District IV	21,293					
70		UPRIIS District IV Sub-total	UPRIIS District IV	21,293 88,744					

· 1		RC (NISO)	NIS	Area (ha) Firmed-Up Irrigated Area in 200X			A.maran D.	nefited Area	+
No.	Region			Service Area				Remarks	
110.	Region	Re (MDO)	,	in 200X (FUSA)	Dry Season	Wet Season	Dry Season	Wet Season	(FUSA) 1/
71			Molino				. 7		
72			Embarcadero-Baluctot						
73			Luksuhin-Makuling						
74 75	·		Pasong Kastila-Julian Bankud						
76	•		Butas Marcelo	,					
77.		•	Plucena-Bayan	and the same					
78		Cavite Friar Lands	Butas-Lawang Bato	8,490	3,089	6,296	3,364	6,897	8,490
79			Navarro	- 1	'				
80			Matanda						-
81			Balayungan Tres Cruses				v	-	
83			San Agustin-Pasong Buaya						
84			Culong-Culong						
85			Sahing						
86		Agos	Agos	1,232	1,232	1,232	1,031	. 963	1,23
87		Palico	Palico	835	783	744	783	744	83:
88			Cabuyao PIS San Cristobal	549 414	127 180	137 248	127 180	137 298	549
89 90		Laguna Friar Lands	Diezmo PIS	693	235	220	235	190	693
91			Macabling	679	344	418	376	413	679
92	<i>'</i>		San Juan	552	246	280	240	248	553
93	Region 4		Sta. Maria						
94	AUGIUII 4	Sta. Maria-Mayor	Mayor	1,349	1,181	1,174	1,080	1,144	1,34
95			Dambo PIS						
96			Sta. Cruz		1				
97 98		Sta. Cruz-Mabacan-Balanac	Mabacan Balanac	3,688	3,299	3,226	3,174	2,684	3,66
99		Star Cruz-Wabacan-Balanac	Lumban	2,000	-		7.0		
100			Malaunod						
101		Dumacaa-Hanagdong-	Dumacaa	1,840	1,456	1,593	1,809	1,521	1,840
102		Lagnas	Hanagdong	280	280	280	220	246	280
103			Lagnas	640	618	621	461	495	640
104		Pagbahan Baco Bucayao-Mag-	Pagbahan	773 4,032	771 3,649	670 3,492	441 3,046	3,250	773 4,032
105 106		Asawang Tubig	Baco Bucayao Mag-Asawang Tubig	668	No Ope.	3,492 No Ope.	No. Ope.	No. Ope.	4,032
107			Amnay-Patric						
108		Amnay-Partic-Mongpong	Mongpong	1,628	1,339	1,314	1,100	1,003	1,629
109		Pula-Bansud	Pula .	3,830	3,492	3,536	3,476	3,536	3,830
110		T tild-Daustid	Bansud						
111		Lumintao	Lumintao	1,021	750	850	750	710	1,107
112		Caguray	Caguray	1,990 284	350 284	1,490 284	272 284	1,420 284	1,990 284
114		Cantingas	Cantingas Batang-Batang	3,062	1,255	1,497	703	947	3,062
115		Batang-Batang-Malatgao	Malatgao Malatgao	3,014	2,500	3,014	1,078	1,907	3,014
		Sub-total	•	41,543	27,460	32,616	24,230	29,484	41,611
116		Daet Talisay-Matogdon	Daet Talisay	2,603	2,444	2,156	2,333	1,758	2,542
117			Matogdon	300	213	250	157	212	300
118		Libmanan Cabusao	Libmanan Cabusao PIS	2,076	65	No Ope,	65	No Ope.	2,076
119 120	Region 5	Tigman-Hinagyanan- Inarihan	Tigman-Hinagyanan Inarihan	3,542	2,786	2,462	2,185	1,987	3,542
121		Cagavcav	Cagaycay	1,577	1,400	1,527	1,400	1,426	1,577
122	-		Barit						
123		Rinconada Integrated	Rida	5,738	4,841	4,670	4,777	3,111	5,731
124			Buhi-Lalo						
125			Mahaba						
126 127		Mahaba-Nasisi-Ogsong- Hibiga	Nasisi	1,946	1,911	1,911	1,911	1,911	1,940
127	Region 5	<del></del>	Ogsong Hibiga						
129		DI D 1 0 D	San Francisco	0.50	950	ara	950	950	951
130		Pili-Bulan-San Francisco	San Ramon	950	930	959			
		Sub-total		18,732	14,610	13,935	13,778	11,355	18,67
Т			Aklan (East Side)	2,265	2,000	2,266	1,904	1,981	2,26
131		Akian Panakuyan	Aklan (West Side)	1,546	1,500	1,546	1,463	1,453 74	1,54
132			Aklan (Dumga) Panakuyan	80 504	75 300	80 504	72 300	483	504
132		Sibalom-San Jose	Sibalom-San Jose	3,969	3,152	3,581	1,954	3,402	5,06
134		Mambusao	Mambusao	1,420	987	1,019	893	937	1,420
135			Jalaur-Proper	8,208	4,724	8,212	4,317	5,970	8,20
136	Region 6	Jaluar-Suague	Jaluar- Extension	2,144	2,086	2,128	1,603	2,101	2,14
137			Suague	2,453	1,971	2,453	1,842	2,475	2,45
138		Sibalom-Tigbuan	Sibalom-Tigbuan	2,019	1,000	1,850	545	1,442	2,01
139		Aganan-Sta Barbara	Aganan Sta Barbara	4,467	2,211 2,579	4,284 2,704	1,371 1,346	3,522 1,951	4,46 3,06
140		Barotac Viejo	Sta. Barbara Barotac Viejo	3,062 1,700	2,379 974	1,161	726	1,395	1,700
_		Darotae Atelo					7,027	8,200	12,700
141		Bago	Bago	13.277	] 6.810	8.2.77	1.021	0.200	
141 142 143		Bago Pangiplan	Bago Pangiplan	13,277 1,168	6,810 1,012	8,252 1,012	972	974	1,16

				Firmed-Up	Irrigated A	rea in 200X	Average Be	nefited Area	Remarks
No.	Region	RC (NISO)	NIS	Service Area in 200X (FUSA)	Dry Season	Wet Season	Dry Season	Wet Season	(FUSA) 1/
144			Bohol	4,973	2,383	2,062	2,403	2,211	4,973
145	Region 7	Bohol	Capayas	539	200	250	123	0	539
143		Sub-total	Cupayas	5,512	2,583	2,312	2,526	2,211	5,517
146			Mainit	2,161	1,601	1,826	666	1,002	1,824
147		Mainit-Pongso	Pongso	780	608	640	471	542	912
148		Bao	Bao	2,185	2,035	2,120	1,521	1,814	1,98:
149		`.	Binahaan North	1,934	1,151	1,285	1,119	1,239	1,934
150		Binahaan-Tibak	Binahan South	1,410	1,001	1,020	781	887	1,410
151		Binanaan-1 loak	Lower Binahaan	1,200	362	504	270	287	1,200
152			Tibak	1,630	1,086	1,193	1,092	988	1,630
153		Daguitan-Guinarona	Daguitan	916	520	748	386	573	910
154	Region 8	Duguitur Cumuciu	Gumarona	646	300	601	297	295	64
155			Balire North	300	245	245	. 174	194	30
156		Balire-Ibawon-Gibuga	Balire South	396	230	274	195	192	390
157			Ibawon	281	236	278	209	214	28
158			Gibuya	738	263	387	338	356	73
159		Bito	Bito	1,602	1,199	1,484	862	1,108	984
160		Hindang-Hilongod-Das-Ay	Hindang-Hilongos	720	697	696	641	623	720
161			Das-Ay	396	386	360	349	365	390 16,27
		Sub-total	63 V-0	17,295	11,920	13,661	9,371	10,679	
162		Sibuguey Valley	Sibuguey Valley	2,642	2,256	2,292	1,540 568	1,476	2,64 1,57
163	Dani P	Salug-Dipolo	Dipolo	1,571	1,042	1,064	4,806	4,755	6,48
164	Region 9		Salug	6,485 2,720	6,400 2,418	6,408 2,720	1,554	1,973	2,72
165		Labangan	Labangan	13,418	12,116	12,484	8,468	8,859	13,42
166		Sub-total Bubunawan	2.1	380	335	275	335	275	384
166			Bubunawan	1,554	1,378	1,201	991	947	1,53
167		Manupali	Manupali	10,557	9,790	9,810	5,803	6,021	10,55
168		Pulangui-Roxas-Kuya	Pulangui Roxas-Kuya	806	780	793	656	646	61
169 170	Region 10	Muleta	Muleta	1,610	1,431	1,470	870	1,034	1,61:
171			Rugnan	2,500	No. Ope.	No Ope.	No Ope.	No. Ope.	2,500
172		Rugnan Maranding	Maranding	4,808	4,416	4,150	3,143	3,224	4,872
1/4		Sub-total	Wataning	22,215	18,130	17,699	11,798	12,147	22,074
173		Lupon	Lupon	2,450	2,450	2,450	1,887	1,925	2,56
174	* .	Batutu	Batutu	2,700	2,685	2,670	2,359	2,440	2,67
175			Saug	4,177	4,165	4,390	1,787	2,209	4,17
176		Saug-Libunganon Left  Lasang-Libuganon-Kipaliku	Libunganon-Left	708	600	666	406	441	70
177			Lasang	4,726	4,694	4,726	3,111	3,369	4,72
178	Region 11		Libunganon-Right	7,031	7,036	7,031	3,584	4,221	7,03
179			Kipaliku	2,344	2,317	2,344	1,358	1,501	2,34
180			Mal	2,635	2,343	2,555	1,490	2,324	2,63
181		Mal-Padada	Padada	2,519	2,500	2,508	2,282	2,327	2,51
		Sub-total		29,290	28,790	29,340	18,264	20,757	29,37
182	7 .	Alia Talausa	Alip	3,101	2,819	3,101	1,304	2,307	2,94
183		Alip-Talayan	Talayan	700	580	650	184	371	70
184		Maridagao	Maridagao	5,562	1,520	1,951	1,030	1,104	5,56
185		Libungan	Libungan	9,168	8,370	9,141	5,585	7,073	9,050
186		Kabulnan	Kabulnan	8,983	4,664	5,278	1,370	2,917	8,98
187		Kabacan-Pagalungan	Kabacan	4,423	4,390	4,423	3,272	3,547	4,33
188			Pagalungan	703	400	600	97	205	53
189		Mlang-Malasila	Mlang	3,177	2,661	2,685	1,558	1,798	3,10
190			Malasila	4,013	3,876	3,989	2,354	2,934	3,97
191	Region 12	Lambayong-Tacurong	Lambayong	11,343	7,178	9,819	5,712	5,056	10,60
192			Tacurong(Dumaguil)	1,762	1,462	1,512	1,298	1,449	1,78
193			Allah 1	4,751	4,291	4,465	7,664	8,891	10,35
194	Į	l	Allah 2	7,296	6,531	7,047			ļ
195		Allah-Banga-Marbel	Banga	2,554	2,495	2,541	1,495	1,916	2,49
196			Marbel-I	1,856	1,798	1,807	1,371	1,510	
197			Marbel 2	1,676	1,611	1,627	1,017	1,205	
198		Siluay-Buayan	Siluay	780	216	654	452	506	
199			Buayan	680	577	571	487	502	
		Sub-total		72,528	55,439	61,861	36,250	43,291	69,40
200	1	Cabadbaran-Taguibo	Cabadbaran-Taguibo	2,500	2,212	2,300	1,336	1,360	
201		Cantillan	Cantillan	1,825	1,552	1,593	1,349	1,402	
		Tago	Tago	3,716	2,166	2,375	701	969	3,49
202	]	Andanan	Andanan	3,500	3,094	3,107	1,975 1,430	2,346 1,238	
203	Region 13								. The residence of the control of th
203 204	Region 13	Gibong	Gibong	1,723	1,700				
203	Region 13		Gibong Simulao	1,723 2,540 15,804	2,190 12,914	2,149 13,274	1,400	2,289 9,604	2,36

Management Action Plan, NIA-SMD

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