

Form AR-1 NISs Number, Location and Related Areas by Region (CY 200_)

No.	Region	RC (NISO)	NIS	Area (ha)					
				Firmed-Up Service Area in 200X (FUSA)	Irrigated Area in 200X		Average Benefitted Area		
					Dry Season	Wet Season	Dry Season	Wet Season	
1	CAR	Upper Chico	Upper Chico						
2		Hapid IP	Hapid						
3		West Apayao Abulog IS	West Apayao Abulog						
		Sub-total		0	0	0	0	0	
4	Region 1	Ilocos Norte	Bonga PIS-1						
5			Bonga PIS-2						
6			Bonga PIS-3						
7			Laoag Vintar						
8			Nmc Pasuquin						
9			Dingras						
10			Bolo						
11			Cura						
12			Nueva Era						
13			Madongan Area						
14			Solsona Area						
15			Labugaon Area						
16			Papa Area						
17			Ilocos Sur	Sta. Maria-Burgos					
18				Sta. Lucia-Candon					
19				Tagudin					
20		Amburayan	Amburayan						
21		Ambayaoan Dipalo	Ambayaoan						
22			Ambayaoan-Extension						
23			Dipalo						
24		Masalip	Masalip						
25		Lower Agno	Lower Agno						
26		San Fabian-Dumuloc	San Fabian						
27			Dumuloc						
28		Agno-Sinolacan	Agno						
29			Sinolacan						
			Sub-total		0	0	0	0	
30		Region 2	Visitacion						
31			Baua	Baua					
32	Banurbur		Banurbur Creek						
33	Magapit Pump		Magapit PIS						
34	Apayao-Abulog-Pamploña		Apayao-Abulog						
35			Pamploña						
36	Dummun		Dummun						
37	Zinundungan		Zinundungan						
38	Baggao		Baggao (Pared)						
39			Baggao (Patanan)						
40	Jenis-Alcala-Amulime		Jenis-Alcala-Amulime PIS						
41	Lower Chico		Lower Chico RIS						
42	Solana-Pinacanauan		Solana PIS						
43			Pinacanauan						
44	San Pablo Cabagan		San Pablo Cabagan						
45	Turmauini		Turmauini						
46	Mallig		Mallig						
		N.V. Bagabag	Bagabag						
		Sub-total		0	0	0	0		
47	MRIIS	MRIIS District I	MRIIS District I						
48		MRIIS District II	MRIIS District II						
49		MRIIS District III	MRIIS District III						
50		MRIIS District IV	MRIIS District IV						
		Sub-total		0	0	0	0		
51	Region 3	Nayom-Bayto	Nayom						
52			Bayto						
53		Camiling	Camiling						
54		Tarlac-San Miguel	Tarlac						
55			San Miguel						
56		Bucao	Bucao						
57		NEP (Nueva Ecija PIS)	NEPIS						
58		Pampanga							
59	Porac- Gumain	Porac							
60		Gumain							
61	Region 3	Colo-Caulaman	Colo						
62			Caulaman						
63		Angat-Maasim	Angat						
64			Maasim						
65		Disalit Creek	Disalit Creek						
		Sub-total		0	0	0	0		
66	UPRIIS	UPRIIS District I	UPRIIS District I						
67		UPRIIS District II	UPRIIS District II						
68		UPRIIS District III	UPRIIS District III						
69			UPRIIS District III (Vaca)						
70		UPRIIS District IV	UPRIIS District IV						
		Sub-total		0	0	0	0		

No.	Region	RC (NISO)	NIS	Area (ha)				
				Firmed-Up Service Area in 200X (FUSA)	Irrigated Area in 200X		Average Benefited Area	
					Dry Season	Wet Season	Dry Season	Wet Season
71	Region 4	Cavite Friar Lands	Molino					
72			Embarcadero-Baluctot					
73			Luksubin-Makuling					
74			Pasong Kastila-Julian					
75			Bankud					
76			Butas Marcelo					
77			Plucena-Bayan					
78			Butas-Lawang Bato					
79			Navarro					
80			Matanda					
81			Balayungan					
82			Tres Cruses					
83			San Agustin-Pasong Buaya					
84			Culong-Culong					
85			Sahing					
86		Agos						
87		Palico	Palico					
88		Laguna Friar Lands	Cabuyao PIS					
89			San Cristobal					
90			Diezmo PIS					
91			Macabing					
92		San Juan						
93		Sta. Maria-Mayor	Sta. Maria					
94			Mayor					
95			Dambo PIS					
96		Sta. Cruz-Mabacan-Balanac	Sta. Cruz					
97			Mabacan					
98			Balanac					
99			Lumban					
100		Dumacao-Hanagdong-Lagnas	Malaunod					
101			Dumacao					
102	Hanagdong							
103	Lagnas							
104	Pagbahan	Pagbahan						
105	Baco Bucayao-Mag-Asawang Tubig	Baco Bucayao						
106	Mag-Asawang Tubig	Mag-Asawang Tubig						
107	Amnay-Partic-Mongpong	Amnay-Partic						
108		Mongpong						
109	Pula-Bansud	Pula						
110	Bansud							
111	Lumintao	Lumintao						
112	Caguray	Caguray						
113	Cantingas	Cantingas						
114	Batang-Batang-Malatgao	Batang-Batang						
115		Malatgao						
		Sub-total		0	0	0	0	0
116	Region 5	Daet Talisay-Matogdon	Daet Talisay					
117			Matogdon					
118		Libmanan Cabusao	Libmanan Cabusao PIS					
119		Tigman-Hinagyanan-Inarihan	Tigman-Hinagyanan					
120		Inarihan						
121		Cagaycay	Cagaycay					
122		Rinconada Integrated	Barit					
123	Rida							
124	Buhi-Lalo							
125	Region 5	Mahaba-Nasisi-Ogsong-Hibiga	Mahaba					
126			Nasisi					
127			Ogsong					
128		Hibiga						
129	Pili-Bulan-San Francisco	San Francisco						
130		San Ramon						
		Sub-total		0	0	0	0	0
131	Region 6	Aklan Panakuyan	Aklan (East Side)					
132			Aklan (West Side)					
133			Aklan (Dumga)					
134			Panakuyan					
135		Sibalom-San Jose	Sibalom-San Jose					
136		Mambusao	Mambusao					
137		Jalaur-Suague	Jalaur-Proper					
138			Jalaur- Extension					
139		Suague						
140		Sibalom-Tigbuan	Sibalom-Tigbuan					
141		Aganan-Sta Barbara	Aganan					
142		Sta. Barbara						
143		Barotac Viejo	Barotac Viejo					
144	Bago	Bago						
145	Pangiplan	Pangiplan						
		Sub-total		0	0	0	0	0
144	Region 7	Bohol	Bohol					
145			Capayas					
		Sub-total		0	0	0	0	0

No.	Region	RC (NISO)	NIS	Area (ha)				
				Firmed-Up Service Area in 200X (FUSA)	Irrigated Area in 200X		Average Benefited Area	
					Dry Season	Wet Season	Dry Season	Wet Season
146	Region 8	Maimit-Pongso	Mainit					
147			Pongso					
148			Bao	Bao				
149			Binahaan-Tibak	Binahaan North				
150				Binahan South				
151				Lower Binahaan				
152				Tibak				
153			Daguitan-Guinarona	Daguitan				
154				Gumarona				
155			Balire-Ibawon-Gibuga	Balire North				
156				Balire South				
157				Ibawon				
158				Gibuya				
159			Bito	Bito				
160		Hindang-Hilongod-Das-Ay	Hindang-Hilongos					
161			Das-Ay					
		Sub-total		0	0	0	0	0
162	Region 9	Sibuguey Valley	Sibuguey Valley					
163			Sahug-Dipolo	Dipolo				
164				Sahug				
165			Labangan	Labangan				
		Sub-total		0	0	0	0	0
166	Region 10	Bubunawan	Bubunawan					
167			Manupali	Manupali				
168			Pulangui-Roxas-Kuya	Pulangui				
169				Roxas-Kuya				
170			Muleta	Muleta				
171			Rugnan	Rugnan				
172			Maranding	Maranding				
		Sub-total		0	0	0	0	0
173	Region 11	Lupon	Lupon					
174			Batutu	Batutu				
175			Saug-Libunganon Left	Saug				
176				Libunganon-Left				
177			Lasang-Libunganon-Kipaliku	Lasang				
178				Libunganon-Right				
179				Kipaliku				
180			Mal-Padada	Mal				
181		Padada						
		Sub-total		0	0	0	0	0
182	Region 12	Alip-Talayan	Alip					
183				Talayan				
184			Maridagao	Maridagao				
185			Libungan	Libungan				
186			Kabulnan	Kabulnan				
187			Kabacan-Pagalungan	Kabacan				
188				Pagalungan				
189			Mlang-Malasila	Mlang				
190				Malasila				
191			Lambayong-Tacurong	Lambayong				
192				Tacurong(Dumaguil)				
193			Allah-Banga-Marbel	Allah 1				
194				Allah 2				
195		Banga						
196		Marbel-1						
197			Marbel 2					
198		Siluay-Buayan	Siluay					
199			Buayan					
		Sub-total		0	0	0	0	0
200	Region 13	Cabadbaran-Taguibo	Cabadbaran-Taguibo					
201			Cantillan	Cantillan				
202			Tago	Tago				
203			Andanan	Andanan				
204			Gibong	Gibong				
205			Simulao	Simulao				
		Sub-total		0	0	0	0	0
		Total		0	0	0	0	0

Data Source : Inventory Survey in CR 200X

No	Region	RC/NISO	NIS	Water Resources, Irrigation Water Use and Flood and Drainage Information																												
				1. Water Resources for Irrigation								2. Irrigation Area and Cropping Intensity								3. Damaged Area				4. Average Benefitted Area and Crop Yield				5. Evaluation of Irrigation and Drainage Conditions				
				Annual Rainfall R (mm)	Average Dry Season Qar(d) (m ³ /sec)	Runoff Wet Season Qar(w) (m ³ /sec)	Discharge Annual Qar (m ³ /sec)	Annual Diverted Dry Season Qad (d) (m ³ /sec)	Intake Wet Season Qad (w) (m ³ /sec)	Dis. Annual Qad (m ³ /sec)	(8) - (11) (m ³ /sec)	Firmed- Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement Ciw (m ³ /sec)	(11)-(20) (m ³ /sec)	Irrigation Damage by Water Shortage		Drainage Damages by Poor Drainage and Flood (ha)	Benefitted Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems			
													Dry Season Ad (ha)	Wet Season Aw (ha)	Dry Season	Wet Season	Dry Season Cid (%)	Wet Season Ciw (%)			Wet S. (ha)	Dry S. (ha)		Dry Season Bad (ha)	Wet Season Baw (ha)	Dry Season Cyd (ton/ha)	Wet Season Cyw (ton/ha)					
(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)	(31)		
1											0.00						#####	#####	#DIV / 0!	0.00												
2											0.00						#####	#####	#DIV / 0!	0.00												
3											0.00						#####	#####	#DIV / 0!	0.00												
4											0.00						#####	#####	#DIV / 0!	0.00												
5											0.00						#####	#####	#DIV / 0!	0.00												
6											0.00						#####	#####	#DIV / 0!	0.00												
7											0.00						#####	#####	#DIV / 0!	0.00												
8											0.00						#####	#####	#DIV / 0!	0.00												
9											0.00						#####	#####	#DIV / 0!	0.00												
10											0.00						#####	#####	#DIV / 0!	0.00												
201											0.00						#####	#####	#DIV / 0!	0.00												
202											0.00						#####	#####	#DIV / 0!	0.00												
203											0.00						#####	#####	#DIV / 0!	0.00												
204											0.00						#####	#####	#DIV / 0!	0.00												
205											0.00						#####	#####	#DIV / 0!	0.00												

Form TB-2 (1) Tabulation of Inventory Survey Results for the Sector of Irrigation and Drainage Facilities (General Information and Dimension of Diversion Dam)

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Diversion Dam Name	Service Area (ha)	Intake Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Diversion Dam			Spillway (weir, gate)			Sluice Way (gate)			Intake (gate)			Protection Dike		Protection Side-wall			
									Width (m)	Height (m)		Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	No. (set)	Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Length (m)	Height (m)		
1	1	CAR	Upper Chico	Upper Chico	Chico																					
					Talaca Catch																					
2	2		Hapid	Hapid																						
3	3		West Apayao Abulog IS	West Apayao Abulog																						
4	1	Region I	Ilocos Norte	Bonga PIS-1	Bonga # 1																					
5	2			Bonga PIS-2	Bonga # 2																					
6	3			Bonga PIS-3	Bonga # 3																					
7	4			Laoag Vintar	Vintar																					
8	5			Nmc Pasuquin	N/A																					
9	6			Dingras	Dingras Int.																					
10	7			Bolo	N/A																					
11	8			Cura	Cura Int.																					
12	9			Nueva Era	Nueva Era																					
13	10			Madongan Area	Madongan																					
14	11			Solsona Area	Solsona																					
15	12			Labugaon Area	Labugaon																					
16	13			Papa Area	Papa																					
17	14			Ilocos Sur	Sta. Maria-Burgos	Sta. Maria-Burgos																				
18	15				Sta. Lucia-Candon	Sta. Lucia-Candon																				
19	16				Tagudin	N/A																				
20	17			Amburayan	Amburayan	Amburayan																				
21	18			Ambayoan-Dipalo	Ambayoan	Ambayoan Int.																				
22	19				Ambayoan-Extension																					
23	20				Dipalo	Dipalo																				
24	21	Masalip	Masalip	Masalip																						
25	22	Lower Agno	Lower Agno	Lower Agno Int.																						
26	23	San Fabian-Dumuloc	San Fabian	San Fabian																						
27	24		Dumuloc	Dumuloc																						
28	25	Agno-Sinolacan	Agno	Agno																						
29	26		Sinolacan	Sinolacan																						
30	1	Region II	Baua-Visitacion	Visitacion																						
31	2		Baua	Baua																						
32	3		Banurbur Creek	Banurbur Creek	San Lorenzo																					
					Nagsabaran																					
33	4		Magapit	Magapit PIS	PIS																					
34	5		Apayao-Abulog-Pamplona	Apayao-Abulog	Dacao																					
		Swan																								
35	6		Pamplona																							

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Diversion Dam Name	Service Area (ha)	Intake Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Diversion Dam			Spillway (weir, gate)			Sluice Way (gate)			Intake (gate)			Protection Dike		Protection Side-wall			
									Width (m)	Height (m)		Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	No. (set)	Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Length (m)	Height (m)		
200	1	Region XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo	Cabadbaran																					
201	2		Cantillan	Cantillan	Cantillan Int.																					
202	3		Tago	Tago	Sagbayan																					
203	4		Andanan	Andanan	Andanan																					
204	5		Gibong	Gibong	Gibong																					
205	6		Simulao	Simulao	Simulao																					
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!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Max.						0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Min.						0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Form TB-2 (2) Tabulation of Inventory Survey for Sector of Irrigation and Drainage Facilities (General Information and Dimension of Pumping Station)

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Pumping Station Name	Service Area (ha)	Total Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Intake Gate			Suction Sump			Pump			Discharge Sump			Slope Protection		Pump House					
									Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Width (m)	No. (row)	Head (m)	Q (m ³ /m)	No. (set)	Power	Length (m)	Height (m)	Width (m)	No. (row)	Length (m)	Height (m)	Length (m)	Height (m)	Width (m)
1	1	CAR	Upper Chico	Upper Chico																								
2	2		Hapid	Hapid																								
3	3		West Apayao Abulog IS	West Apayao Abulog																								
4	1	Region I		Bonga PIS-1																								
5	2			Bonga PIS-2																								
6	3			Bonga PIS-3																								
7	4			Ilocos Norte	Laoag Vintar																							
8	5			Nmc Pasuquin																								
9	6			Dingras																								
10	7			Bolo																								
11	8			Cura																								
12	9			Nueva Era																								
13	10			Madongan Area																								
14	11			Solsom Area																								
15	12			Labugaon Area																								
16	13			Papa Area																								
17	14			Ilocos Sur	Sta. Maria-Burgos																							
18	15			Sta. Lucia-Candon																								
19	16	Tagudin																										
20	17	Amburayan	Amburayan																									
21	18	Ambayaoan																										
22	19	Ambayaoan-Extension																										
23	20	Dipalo																										
24	21	Masalip	Masalip																									
25	22	Lower Agno	Lower Agno																									
26	23	San Fabian-Dumuloc	San Fabian																									
27	24	Dumuloc																										
28	25	Agno-Sinolacan	Agno																									
29	26	Sinolacan																										
30	1	Region II		Visitacion																								
31	2			Baua-Visitacion	Baua																							
32	3			Banurbar Creek	Banurbar Creek																							
33	4			Magapit	Magapit PIS																							
34	5			Apayao-Abulog-Pamplona	Apayao-Abulog																							
35	6			Pamplona																								
36	7			Dummun	Dummun																							
37	8			Zimundungan	Zimundungan																							
38	9			Baggao	Baggao																							
39	10			Iguig-Alcala-Amulung	Iguig-Alcala-Amulung PIS																							
40	11			Lower Chico	Lower Chico																							
41	12			Solana-Pinacanaan	Solana PIS																							
42	13			Pinacanaan																								
43	14			San Pablo Cabagan	San Pablo Cabagan																							
44	15			Tumauni	Tumauni																							
45	16			Mallig	Mallig																							
46	17			Bagabag	Bagabag																							
47	1	MRIIS		MRIIS Distric I	MRIIS Distric I																							
48	2			MRIIS Distric II	MRIIS Distric II																							
49	3			MRIIS Distric III	MRIIS Distric III																							
50	4			MRIIS Distric IV	MRIIS Distric IV																							
51	1	Region III		Nayom																								
52	2			Nayom-Bayto	Bayto																							
53	3			Camiling																								
54	4			Tarlac-San Miguel	Tarlac																							
55	5			San Miguel																								
56	6			Buciao	Buciao																							
57	7			NEPIS (Nueva Ecija PIS)	NEPIS																							
58	8			Pampanga	Pampanga Delta																							
59	9			Porac																								
60	10			Porac- Gumain	Gumain																							
61	11			Colo																								
62	12			Colo-Caulaman	Caulaman																							

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Pumping Station Name	Service Area (ha)	Total Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Intake Gate			Suction Sump				Pump			Discharge Sump				Slope Protection		Pump House																							
									Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Width (m)	No. (row)	Head (m)	Q (m ³ /m)	No. (set)	Power	Length (m)	Height (m)	Width (m)	No. (row)	Length (m)	Height (m)	Length (m)	Height (m)	Length (m)	Height (m)	Width (m)	No. (Nos.)																	
200	1	Region XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo																																												
201	2		Cantillan	Cantillan																																												
202	3		Tago	Tago																																												
203	4		Andanan	Andanan																																												
204	5		Gibong	Gibong																																												
205	6		Simulao	Simulao																																												
Mean						#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	8.10	3.51	2.00	#DIV/0!	#DIV/0!	2.81	#DIV/0!								8.02	2.13	3.19	#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!	#DIV/0!	#DIV/0!			
Max.						0	0.00	0	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0							0.00	0.00	0.00	0	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	0.00	0.00	0.00	
Min.						0	0.00	0	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0							0.00	0.00	0.00	0	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	0.00	0.00	0.00	0.00

Form TB-2 (3) Tabulation of Inventory Survey for the Sector of Irrigation and Drainage (General Information and Dimension of Canal)

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Water Source Name	Main Canal					Lateral - A or D and Sub-lateral - A or D					Lateral - B or E and Sub-lateral - B or E					Lateral - C or F and Sub-lateral - C or F						
						I.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)		
1	1	CAR	Upper Chico	Upper Chico	Chico																						
						Talaca Catch																					
2	2		Hapid	Hapid																							
3	3		West Apavao Abulog IS	West Apavao Abulog																							
4	1	Region I	Ilocos Norte	Bonga PIS-1	Bonga Pump # 1																						
5	2			Bonga PIS-2	Bonga Pump # 2																						
6	3			Bonga PIS-3	Bonga Pump # 3																						
7	4			Laoag Vintar	Main Canal # 1																						
						Main Canal # 2																					
						Main Canal # 3																					
8	5				Nmc Pasuquin	N/A																					
9	6				Dingras	Dingras 1																					
10	7				Bolo	N/A																					
11	8				Cura																						
12	9				Nueva Era	Nueva Era																					
13	10				Madongan Area	Right Main Canal																					
						Left main Canal																					
14	11				Solsona Area	Right Main Canal																					
						Left main Canal																					
15	12				Labugaon Area	Labugaon																					
16	13				Papa Area	Main Canal # 1																					
						Main Canal # 2																					
17	14				Sta. Maria-Burgos	Sta. Maria-Burgos																					
18	15				Ilocos Sur	Sta. Lucia-Candon	Sta. Lucia-Candon																				
19	16				Tagudin	Tagudin																					
20	17				Amburayan	Amburayan																					
21	18				Ambayoan-Dipalo	Ambayoan	Ambayoan Int.																				
22	19					Ambayoan-Extension																					
23	20				Ambayoan-Dipalo	Dipalo	Dipalo																				
24	21				Masalip	Masalip	M.C. Agoo																				
							M.C. Masalip																				
							M.C. Gumacbao																				
25	22				Lower Agno	Lower Agno	Lower Agno																				
26	23		San Fabian-Dumuloc	San Fabian	San Fabian																						
27	24			Dumuloc	Dumuloc																						
28	25		Agno-Sinolacan	Agno	Agno																						
29	26		Agno-Sinolacan	Sinolacan	Sinolacan # 1																						
					Sinolacan # 2																						

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Water Source Name	Main Canal					Lateral - A or D and Sub-lateral - A or D					Lateral - B or E and Sub-lateral - B or E					Lateral - C or F and Sub-lateral - C or F					
						I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	
194	13	Region XII	Allah-Banga-Marbel	Allah-2	Sto. Nifo																					
195	14			Banga	Banga																					
196	15			Marbel-1	Marbel-1																					
197	16			Marbel-2	Marbel-2																					
198	17			Siluay-Buayan	Siluay	Siluay																				
199	18				Buayan	Buayan																				
200	1	Region XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo	Cabadbaran																					
201	2			Cantillan	Cantillan																					
202	3			Tago	Tago	M. C. Left																				
						M. C. Right																				
203	4			Andanan	Andanan	Andanan																				
204	5			Gibong	Gibong	Gibong																				
205	6	Simulao	Simulao	Simulao																						
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!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Max.						0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00		
Min.						0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00		

Form TB-3 (1) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Diversion Dam)

(unit: %)

NO.	Region	NIS	Diversion Dam Name	Weir		Spill. Gate & Operating Device			DS Apron		Riverbed Protection		Shoofe Way			Shoofe Pier			Shoofe Gate & Operat. Device				Protection Dike			Protection Side-wall			Intake				Inlet. Gate & Operat. Device			Mean	Max.	Min.	
				Damaged	Not Damaged	Rust	Damaged	Leak	Damaged	Scoured	Damaged	Scoured	Damaged	Leak	Sediment	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Leak	Damaged	Scoured	Leak	Damaged	Scoured	Damaged	Leak	Sediment	Rust	Damaged	Leak						
1	CAR	Upper Chico	Chico																															#DIV/0!	#DIV/0!	0			
			Talaca Catch																																	#DIV/0!	#DIV/0!	0	
2		Hapid	Hapid																																#DIV/0!	#DIV/0!	0		
3		West Apayao Abulog IS	West Apayao Abulog																																	#DIV/0!	#DIV/0!	0	
4		Bonga PIS-1	Bonga Pump # 1																																	#DIV/0!	#DIV/0!	0	
5		Bonga PIS-2	Bonga Pump # 2																																	#DIV/0!	#DIV/0!	0	
6		Bonga PIS-3	Bonga Pump # 3																																	#DIV/0!	#DIV/0!	0	
7		Laoag Vintar	Vintar																																	#DIV/0!	#DIV/0!	0	
8		Nmc Pasuquin	N/A																																	#DIV/0!	#DIV/0!	0	
9		Dingras	Dingras Int.																																	#DIV/0!	#DIV/0!	0	
10		Bolo	N/A																																	#DIV/0!	#DIV/0!	0	
11		Cura	Cura Int.																																		#DIV/0!	#DIV/0!	0
12		Nueva Era	Nueva Era																																	#DIV/0!	#DIV/0!	0	
13		Madongan Arca	Madongan																																	#DIV/0!	#DIV/0!	0	
14		Solsona	Solsona Area																																	#DIV/0!	#DIV/0!	0	
15		Labugaon Area	Labugaon																																	#DIV/0!	#DIV/0!	0	
16		Papa Area	Papa																																	#DIV/0!	#DIV/0!	0	
17	Region I	Sta. Maria-Burgos	Sta. Maria-Burgos																																	#DIV/0!	#DIV/0!	0	
18		Sta. Lucia-Candon	Sta. Lucia-Candon																																	#DIV/0!	#DIV/0!	0	
19		Tagudin	N/A																																	#DIV/0!	#DIV/0!	0	
20		Amburayan	Amburayan																																		#DIV/0!	#DIV/0!	0
21		Ambayao	Ambayao Int.																																		#DIV/0!	#DIV/0!	0
22		Ambayao-Extension																																			#DIV/0!	#DIV/0!	0
23		Dipalo	Dipalo																																		#DIV/0!	#DIV/0!	0
24		Masalip	Masalip																																		#DIV/0!	#DIV/0!	0
25		Lower Agno																																			#DIV/0!	#DIV/0!	0
26		San Fabian	San Fabian																																		#DIV/0!	#DIV/0!	0
27		Dumuloc	Dumuloc																																		#DIV/0!	#DIV/0!	0
28		Agno	Agno																																		#DIV/0!	#DIV/0!	0
29		Sinolacan	Sinolacan																																		#DIV/0!	#DIV/0!	0
30		Visitacion	Visitacion																																		#DIV/0!	#DIV/0!	0
31		Baua	Baua																																		#DIV/0!	#DIV/0!	0
32	Region II	Banurbur Creek	San Lorenzo																																	#DIV/0!	#DIV/0!	0	
			Nagsabaran																																		#DIV/0!	#DIV/0!	0
33		Magapit PIS	PIS																																	#DIV/0!	#DIV/0!	0	
34		Apayao-Abulog	Dacao																																	#DIV/0!	#DIV/0!	0	
			Swan																																		#DIV/0!	#DIV/0!	0
35		Pamplona																																		#DIV/0!	#DIV/0!	0	

NO.	Region	NIS	Diversion Dam Name	Weir		Spill: Gate & Operating Device			D/S Apron		Riverbed Protection		Sluice Way			Sluice Pier			Shut: Gate & Operat. Device				Protection Dike			Protection Side-wall			Intake				Intake: Gate & Operat. Device			Mean	Max.	Mfn.				
				Damaged	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Damaged	Scoured	Damaged	Leak	Sediment	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Leak	Washed	Scoured	Damaged	Damaged	Leak	Sediment	Rust	Damaged	Leak											
173	Region XI	Lupon	Tag-ugpo																																#DIV/0!	#DIV/0!	0					
174		Batutu	Batutu																																#DIV/0!	#DIV/0!	0					
175		Saug	Saug																																	#DIV/0!	#DIV/0!	0				
176		Libunganon-Left	Libunganon																																	#DIV/0!	#DIV/0!	0				
177		Lasang	Lasang																																	#DIV/0!	#DIV/0!	0				
178		Libunganon-Right	Libunganon																																		#DIV/0!	#DIV/0!	0			
179		Kipaliku	Kipaliku																																		#DIV/0!	#DIV/0!	0			
180		Mal	Dongan Pekoong																																		#DIV/0!	#DIV/0!	0			
181		Padada	Padada																																			#DIV/0!	#DIV/0!	0		
182	Region XII	Alip	Alip																																		#DIV/0!	#DIV/0!	0			
183		Talayan	Talayan																																			#DIV/0!	#DIV/0!	0		
184		Maridagao																																				#DIV/0!	#DIV/0!	0		
185		Libungan	Libungan																																			#DIV/0!	#DIV/0!	0		
186		Kabulnan																																				#DIV/0!	#DIV/0!	0		
187		Kabacan	Kabacan																																			#DIV/0!	#DIV/0!	0		
188		Pagalungan	Pagalungan																																				#DIV/0!	#DIV/0!	0	
189		Mlang	Ugpay																																				#DIV/0!	#DIV/0!	0	
190		Malasila	New Barbaza																																				#DIV/0!	#DIV/0!	0	
191		Lambayong	Lambayong																																				#DIV/0!	#DIV/0!	0	
192		Tacurong (Dumaguil)	Dumaguil																																				#DIV/0!	#DIV/0!	0	
193		Allah-1	Surallah																																				#DIV/0!	#DIV/0!	0	
194		Allah-2	Sto. Nifio																																				#DIV/0!	#DIV/0!	0	
195		Banga	Banga																																				#DIV/0!	#DIV/0!	0	
196		Marbel-1	Marbel-1																																				#DIV/0!	#DIV/0!	0	
197		Marbel-2	Marbel-2																																					#DIV/0!	#DIV/0!	0
198		Siluyay	Siluyay																																					#DIV/0!	#DIV/0!	0
199	Buayan	Tinagacan																																					#DIV/0!	#DIV/0!	0	
200	Region XIII	Cabadbaran-Taguibo	Cabadbaran																																			#DIV/0!	#DIV/0!	0		
201		Cantillan	Cantillan Int.																																				#DIV/0!	#DIV/0!	0	
202		Tago	Sagbayan																																				#DIV/0!	#DIV/0!	0	
203		Andanan	Andanan																																					#DIV/0!	#DIV/0!	0
204		Gibong	Gibong																																				#DIV/0!	#DIV/0!	0	
205	Simulao	Simulao																																					#DIV/0!	#DIV/0!	0	

Form TB-3 (2) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Pumping Station)

NO.	Region	NIS	Pumping Station Name	Intake Gate			Suction Stump				Pump				Discharge Stump				Slope Protection				Pump House		Mean	Max.	Min.	
				Rust	Damaged	Leak	Damaged	Leak	Sediment	Scoured	Rust	Damaged	Leak	Function	Damaged	Leak	Sediment	Scoured	Damaged	Leak	Sediment	Scoured	Damaged	Leak				
1	CAR	Upper Chico	DIS																					#DIV/0!	0	0		
2		Hapid																										
3		West Apayao Abulog																										
4	Region I	Bonga PIS-1	Bonga Pump # 1																						#DIV/0!	0	0	
5		Bonga PIS-2	Bonga Pump # 2																							#DIV/0!	0	0
6		Bonga PIS-3	Bonga Pump # 3																							#DIV/0!	0	0
7		Laoag Vintar	DIS																							#DIV/0!	0	0
8		Nmc Pasuquin	DIS																							#DIV/0!	0	0
9		Dingras	Intake																							#DIV/0!	0	0
10		Bolo	DIS																							#DIV/0!	0	0
11		Cura	Intake																							#DIV/0!	0	0
12		Nueva Era	DIS																							#DIV/0!	0	0
13		Madongan Area	DIS																							#DIV/0!	0	0
14		Solsona Area	DIS																							#DIV/0!	0	0
15		Labugaon Area	DIS																							#DIV/0!	0	0
16		Papa Area	DIS																							#DIV/0!	0	0
17		Sta. Maria-Burgos	DIS																							#DIV/0!	0	0
18		Sta. Lucia-Candon	DIS																							#DIV/0!	0	0
19		Tagudin	DIS																							#DIV/0!	0	0
20		Amburayan																								#DIV/0!	0	0
21		Ambayoan	Intake																							#DIV/0!	0	0
22		Ambayoan-Extension																								#DIV/0!	0	0
23		Dipalo	DIS																							#DIV/0!	0	0
24		Masalip	DIS																							#DIV/0!	0	0
25		Lower Agno	Intake																							#DIV/0!	0	0
26		San Fabian	DIS																							#DIV/0!	0	0
27		Dumuloc	DIS																							#DIV/0!	0	0
28		Agno	DIS																							#DIV/0!	0	0
29		Sinolacan	DIS																							#DIV/0!	0	0
30		Visitacion																								#DIV/0!	0	0
31		Baua	DIS																							#DIV/0!	0	0
32		Banurbur Creek	DIS																							#DIV/0!	0	0
33		Magapit PIS	Magapit Pump																							#DIV/0!	0	0
34	Apayao-Abulog	DIS																							#DIV/0!	0	0	
35	Pamplona																								#DIV/0!	0	0	
36	Dummun	Intake																							#DIV/0!	0	0	
37	Zinundungan	DIS																							#DIV/0!	0	0	
38	Baggao	DIS																							#DIV/0!	0	0	
39	Iguig-Alcala-Amulung PIS	Iguig																							#DIV/0!	0	0	
40	Lower Chico	DIS																							#DIV/0!	0	0	
41	Solana PIS	Solana Pump																							#DIV/0!	0	0	
42	Pinacanauan	Intake																							#DIV/0!	0	0	
43	San Pablo Cabagan	Dalena Dam																							#DIV/0!	0	0	
44	Tumauni																								#DIV/0!	0	0	
45	Mallig	DIS																							#DIV/0!	0	0	
46	Bagabag	DIS																							#DIV/0!	0	0	
47	MRIIS Distric I	DIS																							#DIV/0!	0	0	
48	MRIIS Distric II	DIS																							#DIV/0!	0	0	
49	MRIIS	MRIIS Distric III	Pump Sta.# 2																						#DIV/0!	0	0	
				Pump Sta.# 3																						#DIV/0!	0	0
				Camaal																						#DIV/0!	0	0
			Cabaruan																						#DIV/0!	0	0	
50	MRIIS Distric IV	Pump Sta. No.1																							#DIV/0!	0	0	
51	Region III	Nayom																							#DIV/0!	0	0	
52		Bayto																							#DIV/0!	0	0	
53		Camiling																							#DIV/0!	0	0	
54		Tarlac	DIS																						#DIV/0!	0	0	
55		San Miguel																							#DIV/0!	0	0	
56		Bucao	Intake																						#DIV/0!	0	0	
57		NEPIS	Nueva Ecija PS																						#DIV/0!	0	0	
58		Pampanga Delta																							#DIV/0!	0	0	

Pumping Station

NO.	Region	NIS	Pumping Station Name	Intake Gate			Suction Sump				Pump				Discharge Sump				Slope Protection				Pump House		Mean	Max.	Min.
				Rust	Damaged	Leak	Damaged	Leak	Sediment	Scoured	Rust	Damaged	Leak	Function	Damaged	Leak	Sediment	Scoured	Damaged	Leak	Sediment	Scoured	Damaged	Leak			
177	Region XI	Lasang	DIS																					#DIV/0!	0	0	
178		Libunganon-Right	DIS																						#DIV/0!	0	0
179		Kipaliku	DIS																						#DIV/0!	0	0
180		Mal	DIS																						#DIV/0!	0	0
181		Padada	DIS																						#DIV/0!	0	0
182	Region XII	Alip	DIS																					#DIV/0!	0	0	
183		Talayan	DIS																					#DIV/0!	0	0	
184		Maridagao																									
185		Libungan	DIS																						#DIV/0!	0	0
186		Kabulnan																									
187		Kabacan	DIS																						#DIV/0!	0	0
188		Pagalungan	Intake																						#DIV/0!	0	0
189		Mlang	DIS																						#DIV/0!	0	0
190		Malasila	DIS																						#DIV/0!	0	0
191		Lambayong	DIS																						#DIV/0!	0	0
192		Tacurong (Dumaguil)	DIS																						#DIV/0!	0	0
193		Allah-1	DIS																						#DIV/0!	0	0
194		Allah-2	DIS																						#DIV/0!	0	0
195		Banga	DIS																						#DIV/0!	0	0
196	Marbel-1	DIS																						#DIV/0!	0	0	
197	Marbel-2	DIS																						#DIV/0!	0	0	
198	Situay	DIS																						#DIV/0!	0	0	
199	Buayan	DIS																						#DIV/0!	0	0	
200	Region XIII	Cabadbaran-Taguibo	DIS																					#DIV/0!	0	0	
201		Cantillan	Intake																						#DIV/0!	0	0
202		Tago	DIS																						#DIV/0!	0	0
203		Andanan	DIS																						#DIV/0!	0	0
204		Gibong	DIS																						#DIV/0!	0	0
205		Simulao	DIS																						#DIV/0!	0	0

Table TB-3 (3) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Canal)

(unit: %)

NO.	Region	NIS	Main Canal Name	Main Canal				Lateral - A & Sub-lateral - A				Lateral - B & Sub-lateral - B				Lateral - C & Sub-lateral - C				Lateral - D & Sub-lateral - D				Lateral - E & Sub-lateral - E				Mean	Max.	Min.	
				Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.				
1	CAR	Upper Chico	Chico																							#DIV/0!	0	0			
			Talaca Catch																								#DIV/0!	0	0		
																												#DIV/0!	0	0	
																												#DIV/0!	0	0	
2		Hapid																													
3		West Apayao Abulog																													
4	Region I	Bonga PIS-1	Bonga Pump # 1																								#DIV/0!	0	0		
5		Bonga PIS-2	Bonga Pump # 2																									#DIV/0!	0	0	
6		Bonga PIS-3	Bonga Pump # 3																									#DIV/0!	0	0	
7		Laoag Vintar	M. C. # 1																									#DIV/0!	0	0	
			M. C. # 2																										#DIV/0!	0	0
			M. C. # 3																										#DIV/0!	0	0
8		Nmc Pasuquin	Nmc Pasuquin																									#DIV/0!	0	0	
9		Dingras	Dingras Int.																									#DIV/0!	0	0	
10		Bolo	N/A																									#DIV/0!	0	0	
11		Cura	Cura Int.																									#DIV/0!	0	0	
12		Nueva Era	Nueva Era																									#DIV/0!	0	0	
13		Madongan Area	Right M. C.																									#DIV/0!	0	0	
			Left M. C.																										#DIV/0!	0	0
14		Solsona Area	Right M. C.																									#DIV/0!	0	0	
			Left M. C.																										#DIV/0!	0	0
15		Labugaon Area	Labugaon																									#DIV/0!	0	0	
16		Papa Area	M. C. # 1																									#DIV/0!	0	0	
			M. C. # 2																										#DIV/0!	0	0
17		Sta. Maria-Burgos	Sta. Maria-Burgos																									#DIV/0!	0	0	
18		Sta. Lucia-Candon	Sta. Lucia-Candon																									#DIV/0!	0	0	
19		Tagudin	Tagudin																									#DIV/0!	0	0	
20		Amburayan	Amburayan																									#DIV/0!	0	0	
21		Ambayoan	Ambayoan Int.																									#DIV/0!	0	0	
22		Ambayoan-Extension																										#DIV/0!	0	0	
23		Dipalo	Dipalo																									#DIV/0!	0	0	
24		Masalip	Agoo M.C.																									#DIV/0!	0	0	
			Masalip M.C.																										#DIV/0!	0	0
25		Lower Agno	Lower Agno																									#DIV/0!	0	0	
26		San Fabian	San Fabian																									#DIV/0!	0	0	
27		Dumuloc	Dumuloc																									#DIV/0!	0	0	
28		Agno	Agno																									#DIV/0!	0	0	
																													#DIV/0!	0	0
29		Sinolacan	Sinolacan #1																									#DIV/0!	0	0	
			Sinolacan # 2																										#DIV/0!	0	0
30	Visitacion																										#DIV/0!	0	0		
31	Baua	Baua																									#DIV/0!	0	0		
32	Banarbur Creek	San Lorenzo																									#DIV/0!	0	0		
		Nagsabaran																										#DIV/0!	0	0	
33	Magapit PIS	Magapit M.C.																									#DIV/0!	0	0		
34	Region II	Apayao-Abulog	Dacao																								#DIV/0!	0	0		
			Swan																									#DIV/0!	0	0	
35	Pamplona																										#DIV/0!	0	0		
36	Dummun	Dummun																									#DIV/0!	0	0		
37	Zinundungan	Sicalao																									#DIV/0!	0	0		

NO.	Region	NIS	Main Canal Name	Main Canal				Lateral - A & Sub-lateral - A				Lateral - B & Sub-lateral - B				Lateral - C & Sub-lateral - C				Lateral - D & Sub-lateral - D				Lateral - E & Sub-lateral - E				Mean	Max.	Min.
				Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.			
202	Region XIII	Tago	M. C. Left																							#DIV/0!	0	0		
			M. C. Right																									#DIV/0!	0	0
Andanan																										#DIV/0!	0	0		
Gibong																										#DIV/0!	0	0		
203			Simulao																							#DIV/0!	0	0		
204																										#DIV/0!	0	0		
205																										#DIV/0!	0	0		
																										#DIV/0!	0	0		

**Form TB-4 Evaluation of NIS Inventory Survey Results
for Functionality of Irrigation and Drainage Facilities**

NO.	Region	RC (NISO)	NIS	Evaluation A: Very good		B: Good		C: Not good		D: Not submitted			
				Hard Print		Elec. File		Evaluation of NIS Inventory					
				Hard Print	Elec. File	Diversion	Pump	Canal	IV				
1	CAR	Upper Chico	Upper Chico										
2		Hapid	Hapid										
3		West Apayao Abulog IS	West Apayao Abulog IS										
		Sub-tatal			0	0							
4	Region I	Ilocos Norte	Bonga PIS-1										
5			Bonga PIS-2										
6			Bonga PIS-3										
7			Laoag Vintar										
8			Nmc Pasuquin										
9			Dingras										
10			Bolo										
11			Cura										
12			Nueva Era										
13			Madongan Area										
14			Solsona Area										
15			Labugaon Area										
16			Papa Area										
17			Ilocos Sur	Sta. Maria-Burgos									
18				Sta. Lucia-Candon									
19				Tagudin									
20		Amburayan	Amburayan										
21		Ambayoan-Dipalo	Ambayoan										
22			Ambayoan-Extension										
23		Dipalo											
24		Masalip	Masalip										
25		Lower Agno	Lower Agno										
26		San Fabian-Dumuloc	San Fabian										
27			Dumuloc										
28		Agno-Sinolacan	Agno										
29			Sinolacan										
			Sub-tatal			0	0						
30		Region II	Visitacion	Visitacion									
31			Baua	Baua									
32	Banurbur Creek		Banurbur Creek										
33	Magapit		Magapit PIS										
34	Apayao-Abulog-Pamplona		Apayao-Abulug										
35			Pamplona										
36	Dummun		Dummun										
37	Zinundungan		Zinundungan										
38	Baggao		Baggao										
39	Iguig-Alcala-Amulung		Iguig-Alcala-Amulung PIS										
40	Lower Chico		Lower Chico RIS										
41	Solana-Pinacanuan		Solana PIS										
42			Pinacanauan										
43	San Pablo Cabagan		San Pablo Cabagan										
44	Tumauini		Tumauini										
45	Malilig		Mallig										
46	Bagabag	Bagabag											
		Sub-tatal			0	0							
47	MRIIS	MRIIS Distric I	MRIIS Distric I										
48		MRIIS Distric II	MRIIS Distric II										
49		MRIIS Distric III	MRIIS Distric III										
50		MRIIS Distric IV	MRIIS Distric IV										
		Sub-tatal			0	0							
51	Region III	Nayom-Bayto	Nayom										
52			Bayto										
53		Camiling	Camiling										
54		Tarlac-San Miguel	Tarlac										
55			San Miguel										
56		Bucaos	Bucaos										
57		NEPIS (Nueva Ecija PIS)	NEPIS										
58		Pampanga	Pampanga Delta										

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory				
				Hard Print	Elec. File	Diversion	Pump	Canal	IV	
59	Region III	Porac- Gumain	Porac							
60			Gumain							
61		Colo-Caulaman	Colo							
62			Caulaman							
63		Angat-Maasim	Angat							
64			Maasim							
65		Disalit Creek	Disalit Creek							
		Sub-tatal		0	0					
66	UPRIIS	UPRIIS District I	UPRIIS District I							
67		UPRIIS District II	UPRIIS District II							
68		UPRIIS District III	UPRIIS District III							
69			UPRIIS District III (VACA)							
70		UPRIIS District IV	UPRIIS District IV							
		Sub-tatal		0	0					
71	Region IV	Cavite Friar Lands	Molino							
72			Embarcadero-Baluctot							
73			Luksuhin-Makuling							
74			Pasong Kastila-Julian							
75			Bankud							
76			Butas Marcelo							
77			Plucena-Bayan							
78			Butas-Lawang Bato							
79			Navarro							
80			Matanda							
81			Balayungan							
82			Tres Cruses							
83			San Agustin-Pasong Buaya							
84			Culong-Culong							
85			Sahing							
86		Agos	Agos							
87		Palico	Palico							
88		Laguna Friar Lands	Cabuyao PIS							
89			San Cristobal							
90			Diezmo PIS							
91			Macablang							
92			San Juan							
93		Sta. Maria-Mayor	Sta. Maria							
94			Mayor							
95			Dambo PIS							
96		Sta. Cruz-Mabacan-Balanac	Sta. Cruz							
97			Mabacan							
98			Balanac							
99			Lumban							
100			Malaunod							
101		Dumacaa-Hanagdong-Lagnas	Dumacaa							
102			Hanagdong							
103			Lagnas							
104		Pagbalian	Pagbalian							
105		Baco Bucayao-Mag-Asawang Tubig	Baco Bucayao							
106		Mag-Asawang Tubig								
107	Amnay-Partic-Mongpong	Amnay-Patric								
108		Mongpong								
109	Pula-Bansud	Pula								
110		Bansud								
111	Lumintao	Lumintao								
112	Caguray	Caguray								
113	Cantingas	Cantingas								
114	Batang-Batang-Malatgao	Batang-Batang								
115		Malatgao								
		Sub-tatal		0	0					
116	Region V	Daet Talisay-Matognon	Daet Talisay							
117			Matogdon							
118		Libmanan Cabusao	Libmanan Cabusao PIS							
119		Tigman-Hinagyanan-	Tigman-Hinagyanan							
120		Inarihan	Inarihan							
121	Cagaycay	Cagaycay								

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	Diversion	Pump	Canal	IV
122	Region V	Rinconada Integrated	Barit						
123			Rida						
124			Buhi-Lalo						
125		Mahaba-Nasisi-Ogsong-Hibiga	Mahaba						
126			Nasisi						
127			Ogsong						
128			Hibiga						
129		Pili-Bulan-San Francisco	San Francisco						
130			San Ramon						
			Sub-tatal		0	0			
131	Region VI	Aklan Panakuyan	Aklan						
132			Panakuyan						
133		Sibalom-San Jose	Sibalom-San Jose						
134		Mambusao	Mambusao						
135		Jaluar-Suague	Jaluar-Proper						
136			Jaluar- Extension						
137			Suague						
138		Sibalom-Tigbuan	Sibalom-Tigbuan						
139		Aganan-Sta Barbara	Aganan						
140			Sta. Barbara						
141		Barotac Viejo	Barotac Viejo						
142		Bago	Bago						
143		Pangiplan	Pangiplan						
			Sub-tatal		0	0			
144	Region VII	Bohol	Bohol						
145			Capayas						
		Sub-tatal		0	0				
146	Region VIII	Mainit-Pongso	Mainit						
147			Pongso						
148		Bao	Bao						
149		Binahaan-Tibak	Binahaan North						
150			Binahan South						
151			Lower Binahaan						
152			Tibak						
153		Daguitan-Guinarona	Daguitan						
154			Gumarona						
155		Balire-Ibawon-Gibuga	Balire North						
156			Balire South						
157			Ibawon						
158			Gibuya						
159		Bito	Bito						
160		Hindang-Hilongos-Das-Ay	Hindang-Hilongos						
161		Das-Ay							
		Sub-tatal		0	0				
162	Region IX	Sibuguey Valley	Sibuguey Valley						
163		Dipolo-Salug	Dipolo						
164			Salug						
165		Labangan	Labangan						
		Sub-tatal		0	0				
166	Region X	Bubunawan	Bubunawan						
167		Manupali	Manupali						
168		Pulangui-Roxas-Kuya	Pulangui						
169			Roxas-Kuya						
170		Muleta	Muleta						
171		Rugnan	Rugnan						
172		Maranding	Maranding						
		Sub-tatal		0	0				
173	Region XI	Lupon	Lupon						
174		Batutu	Batutu						
175		Saug-Libunganon Left	Saug						
176			Libunganon-Left						
177		Lasang-Libunganon-Kipaliku	Lasang						
178			Libunganon-Right						
179			Kipaliku						
180		Mal-Padada	Mal						
181			Padada						
			Sub-tatal		0	0			

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory				
				Hard Print	Elec. File	Diversion	Pump	Canal	IV	
182	Region XII	Alip-Talayan	Alip							
183			Talayan							
184		Maridagao	Maridagao							
185		Libungan	Libungan							
186		Kabulnan	Kabulnan							
187		Kabacan-Pagalungan	Kabacan							
188			Pagalungan							
189		Mlang-Malasila	Mlang							
190			Malasila							
191		Lambayong-Dumagul	Lambayong							
192			Tacurong (Dumaguil)							
193		Allah-Banga-Marbel	Allah-1							
194			Allah-2							
195			Banga							
196			Marbel-1							
197			Marbel 2							
198		Siluay-Buayan	Siluay							
199			Buayan							
			Sub-tatal		0	0				
200			Cabadbaran-Taguibo	Cabadbaran-Taguibo						
201		Cantillan	Cantillan							
202		Tago	Tago							
203		Andanan	Andanan							
204		Gibong	Gibong							
205		Simulao	Simulao							
		Sub-tatal		0	0					
		Total		0	0					
				Evaluation: A	0	0	0	0	0	
				B	0	0	0	0	0	
				C	0	0	0	0	0	
				D	0	0	0	0	0	
				Total	0	0	0	0	0	

Form TB-5 Tabulation of Inventory Survey Result for the Sector of Organization and Operation and Maintenance (3)

Reg. No	NIS Information				NIS Information											Rating of Organization on O&M Capability								
	NISO (RC)		NIS		Management Record					IA						NIS Func'ty Survey			ISF CE Rating	Data Collection		Inventory Rating on Org.		
	No	Name	No	Name	FUSA	IMT Area	Cropping Intensity			Average Yield	ISF C.E. Year	Debt to IA, 2004	Coverage Area	Average Size	Membership Rate	Func'ty Ave. Pts	Point	Adjective Rating		Inventory Rating	Class of Data		Inventory Rating	
	(1)	(2)	(3)	(4)	(5)	(ha) (99)	(ha) (100)	(%) (101)	(%) (102)	(%) (103)	(cav./ha) (104)	(%) (105)	(Pesos) (106)	(ha) (107)	(ha) (108)	(%) (109)	(point) (110)	(point) (111)	(rating) (112)	(rating) (113)	70<=High Med<70 Low<50 (rating) (114)	(class) (115)	(rating) (116)	(rating) (117)
CAR	1	Upper Chico	1	Upper Chico																			X	X
	2	Hapid	2	Hapid																			X	X
	3	West Apayao Abulog IS	3	West Apayao Abulog																			X	X
I	4	Ilocos Norte	4	Bonga PIS-1																			X	X
			5	Bonga PIS-2																			X	X
			6	Bonga PIS-3																			X	X
			7	Laoag Vintar																			X	X
			8	Nmc Pasuquin																			X	X
			9	Dingras																			X	X
			10	Bolo																			X	X
			11	Cura																			X	X
			12	Nueva Era																			X	X
			13	Madongan Area																			X	X
			14	Solsona Area																			X	X
			15	Labugaon Area																			X	X
			16	Papa Area																			X	X
	5	Ilocos Sur	17	Sta. Maria-Burgos																			X	X
			18	Sta. Lucia-Candon																			X	X
			19	Tagudin																			X	X
	6	Amburayan	20	Amburayan																			X	X
	7	Ambayoan-Dipalo	21	Ambayoan																			X	X
			22	Ambayoan-Extension																			X	X
			23	Dipalo																			X	X
	8	Masalip	24	Masalip																			X	X
	9	Lower Agno	25	Lower Agno																			X	X
	10	San Fabian-Dumuloc	26	San Fabian																			X	X
			27	Dumuloc																			X	X
	11	Agno-Sinocalan	28	Agno																			X	X
			29	Sinolacan																			X	X
II	12	Baua-Vistacion	30	Vistacion																			X	X
			31	Baua																			X	X
	13	Banurbur Creek	32	Banurbur Creek																			X	X
	14	Magapit	33	Magapit PIS																			X	X
	15	Apayao-Abulog-Pamplona	34	Apayao-Abulug																			X	X
			35	Pamplona																			X	X
	16	Dummun	36	Dummun																			X	X
	17	Zinundungan	37	Zinundungan																			X	X
	18	Baggao	38	Baggao																			X	X
	19	Iguig-Alcala-Amulung	39	Iguig-Alcala-Amulung PIS																			X	X
	20	Lower Chico	40	Lower Chico																			X	X
	21	Solana-Pinacanuan	41	Solana PIS																			X	X
			42	Pinacanauan																			X	X
	22	San Pablo Cabagan	43	San Pablo Cabagan																			X	X
	23	Tumauni	44	Tumauni																			X	X
	24	Mallig	45	Mallig																			X	X
	25	Bagabag	46	Bagabag																			X	X
MARIIS	26	MARIIS Distric I	47	MARIIS Distric I																			X	X
	27	MARIIS Distric II	48	MARIIS Distric II																			X	X
	28	MARIIS Distric III	49	MARIIS Distric III																			X	X
	29	MARIIS Distric IV	50	MARIIS Distric IV																			X	X

Form TB-6 Description Guidelines for Tabulation of NIS Inventory Survey Data

Information	Item		Description Guidelines
	No	Item	
IV. Functionality of Irrigation and Drainage Facilities Table A2-4: Dimensions	(1)	Diversion Dam	1) NIS inventory survey data will be tabulated from “Present Conditions 1. Diversion Dam” to Table A2-4 (1) in Appendices by manual. 2) The values of maximum, mean and minimum in summary table will be computed except the colored cells (the color is gray in the Excel file).
	(2)	Pumping Station	1) NIS inventory survey data will be tabulated from “Present Conditions 3. Pumping Station” to Table A2-4 (2) in Appendices by manual. 2) The values of maximum, mean and minimum in summary table will be computed except the colored cells (the color is gray in the Excel file).
	(3)	Canal	1) NIS inventory survey data will be tabulated from “Present Conditions 2. Canal” to Table A2-4 (3) in Appendices by manual. 2) The “Width” and “Height” of canal are average between maximum and minimum cross-sections. 3) The values of maximum, mean and minimum in summary table will be computed except the colored cells (the color is gray in the Excel file).
Table A2-5: Conditions	(1)	Diversion Dam	1) NIS inventory survey data will be tabulated from “Present Conditions 1. Diversion Dam” to Table A2-5 (1) in Appendices by manual.
	(2)	Pumping Station	1) NIS inventory survey data will be tabulated from “Present Conditions 3. Pumping Station” to Table A2-5 (2) in Appendices by manual.
	(3)	Canal	1) NIS inventory survey data will be tabulated from “Present Conditions 2. Canal” to Table A2-5 (3) in Appendices by manual. 2) The percentage of “Related Structure” is biggest percentage in these related structures.

Information	Item		Description Guidelines																	
	No	Item																		
V. Organization and O&M Information	(1)	Basics	<p>1) The purpose of this part is to collect information for organization and O&M condition on NISOs and NISs separately. Important and objective information of the inventory survey should be tabulated in Form TB-5. The sample form is attached as Table A2-7 in Appendices in this manual.</p> <p>2) The cells with a formula are colored in grey, so that the contents should not be changed, because they are calculated automatically.</p>																	
	(2)	Names & No. of NISOs & NISs	Names & No. of NISOs & NISs are tabulated from the column (1) to (5).																	
	(3)	NISOs Information	NISOs information is tabulated from the column (6) to (101).																	
	(4)	NISs Information	NISs information is tabulated from the column (102) to (113).																	
	(5)	Rating of Organization and O&M Capability	<p>1) The data in this part are arranged to classify NISs in three grades from the aspect of organization and O&M capability.</p> <p>2) The data on the NIS Functionality Survey should be tabulated in the column of (114) and (115). Based on the adjective rating, NISs are classified into three grades. Refer to the table below for classification. Classification is automatically made in the column (116).</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">Adjective Rating</td> <td style="text-align: center;">Outstanding</td> <td style="text-align: center;">Very Satisfactory</td> <td style="text-align: center;">Satisfactory</td> <td style="text-align: center;">Fair</td> <td style="text-align: center;">Poor</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center;">⏟</td> <td colspan="2" style="text-align: center;">⏟</td> <td style="text-align: center;">↓</td> </tr> <tr> <td style="text-align: center;">Inventory Rating</td> <td colspan="2" style="text-align: center;">High</td> <td colspan="2" style="text-align: center;">Medium</td> <td style="text-align: center;">Low</td> </tr> </table> <p>The results of the NIS Functionality Survey are reported to SMD annually, though only some NISs, which are supposed to be awarded, are reporting.</p> <p>3) Since only some NISs submit the results of the NIS Functionality Survey, most of NISs are rated by the ISF collection efficiency. The classification is; 70% and above=High, between 50 and 70%=Medium and less than 50%=Low. Classification is automatically made in the column (117).</p> <p>4) Classes of data collection are inputted in the column (118).</p> <p>5) Ratings of organization and O&M capability for A and B class NISs in data collection are calculated in the column (119). The rating is based on NIS Functionality Survey result primarily and ISF C.E. secondarily.</p> <p>6) Some NISs, whose capability is rated A or B in data collection but there are no data in NIS Functionality Survey and ISF C.E., are marked "X" in the column (119). They should be rated High, Medium or Low in the column (120) based on the various data.</p>	Adjective Rating	Outstanding	Very Satisfactory	Satisfactory	Fair	Poor		⏟		⏟		↓	Inventory Rating	High		Medium	
Adjective Rating	Outstanding	Very Satisfactory	Satisfactory	Fair	Poor															
	⏟		⏟		↓															
Inventory Rating	High		Medium		Low															

Form PW-1 Monthly Average River Discharge

No.	NIS Name	River Name	Catchment Area (km2)	Rainfall (mm)	Monthly River Dischege (m3/sec)												Average Seasonal River Dischege (Qr) (m3/sec)			Average Unit Runoff Discharge (m3/s/100km2)	Average Runoff Coefficient (%)	
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)			
CAR																						
1	Upper Chico -1	Chico River	1,930.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	Hapid	Hapid																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	West Apayao Abulog	West Apayao Abulog																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			1,930.00	#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!	#DIV/0!	#DIV/0!	#DIV/0!
Region-I																						
4	Bonga PIS-1	Bonga River#1																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	Bonga PIS-2	Bonga River#2																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6	Bonga PIS-3	Bonga River#3	2,479.9															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
7	Laoag Vintar	Vintar River	212.3															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8	Nmc Pasuquin	Vintar River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9	Dingras	Bonga River	932.3															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10	Bolo	Bolo RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
11	Cura	Cura RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	Nueva Era	Nueva Era	59.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13	Madongan Area	Mandongan RIS	153.8															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
14	Solsona Area	Solsona River	79.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15	Labugaon Area	Labugaon RIS	1,005.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
16	Papa Area	Papa RIS	51.4															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
17	Sta. Maria-Burgos	Sta. Maria-Burgos	1,500.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
18	Sta. Lucia- Candon	Sta. Lucia-Candon	153.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
19	Tagudin	Tagudin	954.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20	Amburayan	Amburayan River	124.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	Ambayoan	Amboyoan RIS	60.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
22	Ambayoan-Extension																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
23	Dipalo	Dipalo RIS	35.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
24	Masalip	Aringay River	273.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
25	Lower Agno	Agno River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
26	San Fabian	Bued River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
27	Dumuloc	Dumuloc, Cabatuan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
28	Agno	Agno River	1,225.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
29	Sinolacan	Sinolacan River	180.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			557.45	#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!	#DIV/0!	#DIV/0!	#DIV/0!
Region-II																						
30	Visitacion	Visitacion	21.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
31	Baua	Baua River	79.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
32	Banurbur Creek	Banurbur Creek																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
33	Magapit PIS	Magapit PIS	185.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
34	Apayao-Abulug	Apayao-Abulog River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
35	Pamplona	Apatao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
36	Dummun	Dummun River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
37	Zinundungan	Zinundungan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
38	Baggao	Pared River	11.3															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
39	Iguig-Alcala-Amulung PIS	Cagayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
40	Lower Chico RIS	Chico River	1.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
41	Solana PIS	Cagayan River	144.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
42	Pinacanauan	Pinacanauan River	168.5															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
43	San Pablo Cabagan	Pinacanauan San Pablo River	541.3															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
44	Tumauni	Pinacanauan de Tumauni																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
45	Mallig	Mallig River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
46	Bagabag	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			143.89	#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!	#DIV/0!	#DIV/0!	#DIV/0!
MRHS																						
47	MRHS District I	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
48	MRHS District II	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
49	MRHS District III	Magat River/Siffu River	627.0															-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
50	MRHS District IV																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			627.00	#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!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Catchment Area (km ²)	Rainfall (mm)	Monthly River Dischege (m ³ /sec)												Average Seasonal River Dischege (Qr) (m ³ /s/100km ²)			Average Unit Runoff Discharge (m ³ /s/100km ²)	Average Runoff Coefficient (%)	
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)			
Region-III																						
51	Nayom																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
52	Bayto																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
53	Camiling	Camling River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
54	Tarlac	Bulsa River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
55	San Miguel	Bulsa River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
56	Bucao	Bucao / Baquilan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
57	NEPIS																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
58																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
59	Porac	Porac River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
60	Gumain	Gumain River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
61	Colo																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
62	Caulaman																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
63	Angat	Angat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
64	Maasim	Maasim River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
65	Disalit Creek	Disalit River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
UPRIIS																						
66	UPRIIS District I	Radial Gate #3																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
67	UPRIIS District II																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
68	UPRIIS District III																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
69	UPRIIS District III (Vaca)																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
70	UPRIIS District IV	Peñaranda																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-IV																						
71	Molino																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
72	Embarcadero- Baluctot																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
73	Luksuhin- Makuling																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
74	Pasong Kastila- Julian																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
75	Bankud																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
76	Butas Marcelo																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
77	Plucena-Bayan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
78	Butas-Lawang Bato																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
79	Navarro																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
80	Matanda																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
81	Balayungan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
82	Tres Cruses																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
83	San Agustin-Pasong Buaya																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
84	Culong-Culong																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
85	Sahing																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
86	Agos	Agos River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
87	Palico																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
88	Cabuyao PIS	San Cristobal River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
89	San Cristobal	San Cristobal River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
90	Diezmo PIS	Diezmo River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
91	Macabling	Macabling River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92	San Juan	San Juan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93	Sta. Maria																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
94	Mayor																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
95	Dambo PIS																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96	Sta. Cruz																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97	Mabacan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
98	Balanac																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
99	Lumban																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100	Malaunod																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
101	Dumacaa	Dumacaa River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
102	Hanagdong	Hanagdong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
103	Lagnas	Lagnas River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
104	Pagbahian	Pagbahian River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
105	Baco Bucayao																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
106	Mag-Asawang Tubig																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107	Amnay-Patric	Patrick River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Catchment Area (km ²)	Rainfall (mm)	Monthly River Dischege (m ³ /sec)												Average Seasonal River Dischege (Qr) (m ³ /s/100km ²)			Average Unit Runoff Discharge (m ³ /s/100km ²)	Average Runoff Coefficient (%)	
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)			
108	Mongpong	Mongpong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
109	Pula	Pula River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
110	Bansud																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
111	Lumintao																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
112	Caguray	Caguray River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
113	Cantingas	Cantingas River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
114	Batang-Batang	Batang-Batang River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
115	Malatgao	Malatgao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-V																						
116	Daet Talisay-Matogdon	Daet River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
117		Matogdon River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
118	Libmanan- Cabusao																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
119	Tigman-Hinagyanan-Inarihan	Hinagyanan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
120		Inarihan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
121	Cagaycay																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
122	Rinconada Integrated																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
123																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
124																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
125	Hibiga																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
126																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
127																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
128																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
129	Pili-Bulan-San Francisco																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
130																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-VI																						
131	Aklan- Panakuyan	East Side River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
132		Panakuyan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
133	Sibalom-San Jose	Tipuluan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
134	Mambusao	Mambusao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
135	Jaluar-Suague	Jaluar River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
136		Jaluar River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
137		Suague River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
138	Sibalom-Tigbuan	Sibalom River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
139	Aganan- Sta Barbara	Aganan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
140		Tigum River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
141	Barotac Viejo	Barotac Viejo River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
142	Bago	Bago River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
143	Pangiplan	Pangiplan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-VII																						
144	Bohol	Wahig-Pamacsalan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
145	Capayas																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-VIII																						
146	Mainit-Pongso	Mainit River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
147		Pongso River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
148	Bao	Bao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
149	Binahaan-Tibak																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
150		Binahaan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
151		Cand-is Creek																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
152		Tibak Creek																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
153	Daguitan- Guirona	Daguitan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
154		Guirona River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
155	Balire-Ibawon- Gibuga	Balire River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156		Ibawon River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157		Gibuga River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
158																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
159	Bito	Bito River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
160	Hindang-Hilongod- Das-Ay	Salog River																-	0.00	#DIV/0!	#DIV/0!	#DIV/0!
161		Das-ay River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Catchment Area (km2)	Rainfall (mm)	Monthly River Dischege (m3/sec)												Average Seasonal River Dischege (Qr) (m3/sec)			Average Unit Runoff Discharge (m3/s/100km2)	Average Runoff Coefficient (%)	
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)			
Region-IX																						
162	Sibuguey Valley	Sibuguey River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
163	Salug-Dipolo	Dipolo River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
164		Salug Daku River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
165	Labangan	Labangan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-X																						
166	Bubunawan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
167	Manupali	Manupali River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
168	Pulangui-Roxas- Kuya	Pulangui River,																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
169		Maramag & Kuya River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
170	Muleta	Muleta River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
171	Rugnan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
172	Maranding	Salug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XI																						
173	Lupon	Sumlog River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
174	Batutu	Batuto River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
175	Saug-Libunganon Left	Saug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
176		Saug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
177	Lasang-Libuganon-Kipaliku	Lasang River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
178		Libuganon River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
179		Kipaliku River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
180	Mal-Padada	Mal River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
181		Padada River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XII																						
182	Alip-Talayan	Alip River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
183		Talayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
184	Maridagao																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
185	Libungan	Libungan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
186	Kabulnan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
187	Kabacan- Pagalungan	Kabacan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
188		Kabacan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
189	Mlang-Malasila	Mlang River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
190		Malasila River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
191	Lambayong- Tacurong	Lambayong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
192		Banga-Kapingkong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
193	Allah-Banga- Marbel	Allah River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
194																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
195		Banga River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
196		Marbel River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
197		Marbel and Taplan river																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
198	Siluyay-Buayan	Siluyay/Klinan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
199		Buayan- Tinanagacan																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XIII																						
200	Cabadbaran- Taguibo	Cabadbaran River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
201	Cantillan	Carac-an River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
202	Tago	Tago River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
203	Andanan	Andanan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
204	Gibong	Gibong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
205	Simulao	Simulao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Form PW-2

Monthly Average Diverted Intake Discharge

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)			
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)	
CAR																							
1	Upper Chico -1	Chico River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2	Hapid	Hapid																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3	West Apayao Abulog	West Apayao Abulog																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-I																							
4	Bonga PIS-1	Bonga River#1																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	Bonga PIS-2	Bonga River#2																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6	Bonga PIS-3	Bonga River#3																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
7	Laoag Vintar	Vintar River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
8	Nmc Pasuquin	Vintar River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9	Dingras	Bonga River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10	Bolo	Bolo RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
11	Cura	Cura RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
12	Nueva Era	Nueva Era																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
13	Madongan Area	Madongan RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
14	Solsona Area	Solsona River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
15	Labugaon Area	Labugaon RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
16	Papa Area	Papa RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
17	Sta. Maria-Burgos	Sta. Maria-Burgos																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
18	Sta. Lucia- Candon	Sta. Lucia-Candon																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
19	Tagudin	Tagudin																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
20	Amburayan	Amburayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
21	Ambayoan	Ambayoan RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
22	Ambayoan-Extension																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
23	Dipalo	Dipalo RIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
24	Masalip	Aringay River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
25	Lower Agno	Agno River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
26	San Fabian	Bued River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
27	Dumuloc	Dumuloc, Cabatuan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
28	Agno	Agno River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
29	Sinolacan	Sinolacan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-II																							
30	Visitacion	Visitacion																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
31	Baua	Baua River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
32	Banurbur Creek	Banurbur Creek																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
33	Magapit PIS	Magapit PIS																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
34	Apayao-Abulug	Apayao-Abulug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
35	Pamplona	Apatao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
36	Dummun	Dummun River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
37	Zinundungan	Zinundungan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
38	Baggao	Pared River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
39	Iguig-Alcala-Amulung PIS	Cagayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
40	Lower Chico RIS	Chico River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
41	Solana PIS	Cagayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
42	Pinacanauan	Pinacanauan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
43	San Pablo Cabagan	Pinacanauan San Pablo River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
44	Tumauni	Pinacanauan de Tumauni																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
45	Mallig	Mallig River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
46	Bagabag	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MRIS																							
47	MRIS District I	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
48	MRIS District II	Magat River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
49	MRIS District III	Magat River/Siffu River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
50	MRIS District IV																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)					
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)			
Region-III																									
51	Nayom																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
52	Bayto																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
53	Camiling	Camling River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
54	Tarlac	Bulsa River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
55	San Miguel	Bulsa River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
56	Bucao	Bucao / Baquilan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
57	NEPIS																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
58																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
59	Porac	Porac River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
60	Gumain	Gumain River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
61	Colo																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
62	Caulaman																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
63	Angat	Angat River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
64	Maasim	Maasim River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
65	Disalit Creek	Disalit River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
UPRIIS																									
66	UPRIIS District I	Radial Gate #3																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
67	UPRIIS District II																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
68	UPRIIS District III																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
69	UPRIIS District III (Vaca)																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
70	UPRIIS District IV	Peñaranda																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average:			#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!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-IV																									
71	Molino																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
72	Embarcadero- Baluctot																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
73	Luksuhin- Makuling																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
74	Pasong Kastila- Julian																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
75	Bankud																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
76	Butas Marcelo																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
77	Plucena-Bayan																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
78	Butas-Lawang Bato																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
79	Navarro																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
80	Matanda																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
81	Balayungan																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
82	Tres Cruces																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
83	San Agustin-Pasong Buaya																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
84	Culong-Culong																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
85	Sahing																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
86	Agos	Agos River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
87	Palico																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
88	Cabuyao PIS	San Cristobal River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
89	San Cristobal	San Cristobal River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
90	Diezmo PIS	Diezmo River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
91	Macablang	Macablang River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
92	San Juan	San Juan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
93	Sta. Maria																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
94	Mayor																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
95	Dambo PIS																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
96	Sta. Cruz																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
97	Mabacan																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
98	Balanac																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
99	Lumban																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100	Malaunod																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
101	Dumacaa	Dumacaa River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
102	Hanagdong	Hanagdong River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
103	Lagnas	Lagnas River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
104	Pagbahan	Pagbahan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
105	Baco Bucayao																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)				
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May- Oct)	(Annual)	(Nov- Apr)	(May- Oct)	(Annual)		
106	Mag-Asawang Tubig																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107	Amnay-Patric	Patrick River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
108	Mongpong	Mongpong River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
109	Pula	Pula River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
110	Bansud																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
111	Lumintao																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
112	Caguray	Caguray River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
113	Cantingas	Cantingas River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
114	Batang-Batang	Batang-Batang River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
115	Malatgao	Malatgao River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-V																								
116	Daet Talisay-Matogdon	Daet River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
117		Matogdon River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
118	Libmanan- Cabusao																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
119	Tigman-Hinagyanan-Inarihan	Hinagyanan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
120		Inarihan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
121	Cagaycay																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
122	Rinconada Integrated																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
123																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
124																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
125	Mahaba-Nasisi-Ogsong-Hibiga																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
126																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
127																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
128																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
129	Pili-Bulan-San Francisco																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
130																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-VI																								
131	Aklan- Panakuyan	East Side River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
132		Panakuyan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
133	Sibalom-San Jose	Tipuluan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
134	Mambusao	Mambusao River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
135	Jaluar-Suague	Jaluar River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
136		Jaluar River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
137		Suague River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
138	Sibalom-Tigbuan	Sibalom River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
139	Aganan- Sta Barbara	Aganan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
140		Tigum River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
141	Barotac Viejo	Barotac Viejo River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
142	Bago	Bago River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
143	Pangiplan	Pangiplan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-VII																								
144	Bohol	Wahig-Pamacsalan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
145	Kapayas	Kapayas River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-VIII																								
146	Mainit-Pongso	Mainit River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
147		Pongso River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
148	Bao	Bao River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
149	Binahaan-Tibak																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
150		Binahaan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
151		Cand-is Creek																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
152		Tibak Creek																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
153	Daguitan- Guirona	Daguitan River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
154		Guirona River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
155	Balire-Ibawon- Gibuga	Balire River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
156		Ibawon River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
157		Gibuga River																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
158																			-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)			
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)	
159	Bito	Bito River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
160	Hindang-Hilogod- Das-Ay	Salog River																0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
161		Das-ay River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-IX																							
162	Sibuguey Valley	Sibuguey River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
163	Salug-Dipolo	Dipolo River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
164		Salug Daku River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
165	Labangan	Labangan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-X																							
166	Bubunawan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
167	Manupali	Manupali River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
168	Pulangui-Roxas- Kuya	Pulangi River, Maapag creek, Laligan River Kulaman River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
169		Maramag & Kuya River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
170	Muleta	Muleta River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
171	Rugnan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
172	Maranding	Salug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XI																							
173	Lupon	Sumlog River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
174	Batutu	Batuto River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
175	Saug-Libunganon Left	Saug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
176		Saug River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
177	Lasang-Libuganon-Kipaliku	Lasang River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
178		Libuganon River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
179		Kipaliku River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
180	Mal-Padada	Mal River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
181		Padada River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XII																							
182	Alip-Talayan	Alip River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
183		Talayan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
184	Maridagao																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
185	Libungan	Libungan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
186	Kabulnan																	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
187	Kabacan- Pagalungan	Kabacan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
188		Kabacan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
189	Mlang-Malasila	Mlang River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
190		Malasila River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
191	Lambayong- Tacurong	Lambayong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
192		Banga-Kapingkong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
193	Allah-Banga- Marbel	Allah River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
194																		-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
195		Banga River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
196		Marbel River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
197		Marbel and Taplan river																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
198	Siluay-Buayan	Siluay/Klinan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
199		Buayan- Tinanagacan																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-XIII																							
200	Cabadbaran- Taguibo	Cabadbaran River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
201	Cantillan	Carac-an River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
202	Tago	Tago River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
203	Andanan	Andanan River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
204	Gibong	Gibong River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
205	Simulao	Simulao River																-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average			#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!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Form PW-3

Evaluation of Development Potential for Seasonal Water Resources

No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
CAR																	
1	Upper Chico -1	Chico River	0.00	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Weighted Value
2	Hapid	Hapid	0.00	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Dry Season x 0.7
3	West Apayao Abulog	West Apayao Abulog	0.00	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Wet Season x 0.3
Average			-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-I																	
4	Bonga PIS-1	Bonga River#1	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Potential Ranking
5	Bonga PIS-2	Bonga River#2	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	WV : < 1 Low (L)
6	Bonga PIS-3	Bonga River#3	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	WV : 1 - 5 Medium (M)
7	Laoag Vintar	Vintar River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	WV : 5 > High (H)
8	Nmc Pasuquin	Vintar River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
9	Dingras	Bonga River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
10	Bolo	Bolo RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
11	Cura	Cura RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
12	Nueva Era	Nueva Era	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
13	Madongan Area	Madongan RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
14	Solsona Area	Solsona River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
15	Labugaon Area	Labugaon RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
16	Papa Area	Papa RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
17	Sta. Maria-Burgos	Sta. Maria-Burgos	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
18	Sta. Lucia- Candon	Sta. Lucia-Candon	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
19	Tagudin	Tagudin	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
20	Amburayan	Amburayan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21	Ambayoan	Ambayoan RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
22	Ambayoan-Extension		-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
23	Dipalo	Dipalo RIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
24	Masalip	Aringay River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
25	Lower Agno	Agno River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
26	San Fabian	Bued River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
27	Dumuloc	Dumuloc, Cabatuan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
28	Agno	Agno River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
29	Sinolacan	Sinolacan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Average			-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-II																	
30	Visitacion	Visitacion	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
31	Baua	Baua River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
32	Banurbur Creek	Banurbur Creek	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
33	Magapit PIS	Magapit PIS	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
34	Apayao-Abulug	Apayao-Abulug River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
35	Pamplona	Apatao River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
36	Dummun	Dummun River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
37	Zinundungan	Zinundungan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
38	Baggao	Pared River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
39	Iguig-Alcala-Amulung PIS	Cagayan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
40	Lower Chico RIS	Chico River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
41	Solana PIS	Cagayan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
42	Pinacanauan	Pinacanauan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
43	San Pablo Cabagan	Pinacanauan San Pablo River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
44	Tumauni	Pinacanauan de Tumauni	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
45	Mallig	Mallig River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
46	Bagabag	Magat River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Average:			-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
187	Kabacan- Pagalungan	Kabacan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
188		Kabacan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
189	Mlang-Malasila	Mlang River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
190		Malasila River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
191	Lambayong- Tacurong	Lambayong River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
192		Banga-Kapingkong River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
193	Allah-Banga- Marbel	Allah River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
194			-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
195		Banga River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
196		Marbel River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
197		Marbel and Taplan river	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
198	Siluyay-Buayan	Siluyay/Klinan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
199		Buayan- Tinanagacan	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	Average		0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-XIII																	
200	Cabadbaran- Taguibo	Cabadbaran River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
201	Cantillan	Carac-an River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
202	Tago	Tago River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
203	Andanan	Andanan River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
204	Gibong	Gibong River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
205	Simulao	Simulao River	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	Average		0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Form PW-4 Description Guideline for Analysis of Development Potential of Water Resources

No.	Item	Sheet Name	Form	Description Guidelines
1.	Monthly Average River Discharge			
	1.1 Catchment Area and Rainfall 1.2 Monthly River Discharge 1.3 Average Seasonal River Discharge 1.4 Average Unit Runoff Discharge 1.5 Average Runoff Coefficient	Rive Discharge	Form PW-1	<p>Catchment areas with a unit of hectare (ha) at the diversion dam site and rainfall with a unit of mm/month observed in and around the service area by each NIS are inputted based on the obtained inventory survey data.</p> <p>NIS basis monthly river discharges with a unit of m³/sec are also inputted based on the obtained inventory survey data.</p> <p>Average two seasonal discharges (dry season from November to April and wet season from May to October) and annual discharges with a unit of m³/sec are automatically calculated by the Excel function. <u>Therefore, the gray-colored cells should never be clicked, or never input the data by manual.</u></p> <p>Average unit runoff discharge with a unit of m³/sec/100 km², which is equivalent to the runoff discharge per one squire kilometer (km²) is automatically calculated by the Excel function.</p> <p>Average runoff coefficient with a unit of percent (%), which is equivalent to the ratio obtained by dividing seasonal discharge by total basin amounts of water volume (Area x Rainfall). This coefficient should basically be less than 100 percent.</p> <p>In the above tabulation and calculation, average figures are calculated in the group of Region.</p>
2.	Monthly Average Diverted Intake Discharge			
	2.1 Average Irrigated Area 2.2 Monthly Diverted Intake Discharge 2.3 Average Seasonal Diverted Intake Discharge	Intake Discharge	Form PW-2	<p>NIS basis of the irrigated areas for the both dry and wet seasons with a unit of hectare (ha) are inputted based on the obtained inventory survey.</p> <p>NIS basis of the monthly average diverted discharges with a unit of m³/sec are also inputted based on the obtained inventory survey.</p> <p>Average two seasonal diverted intake discharges (dry season from November to April and wet season from May to October) and annual discharge with a unit of m³/sec are automatically</p>

No.	Item	Sheet Name	Form	Description Guidelines									
	2.4 Average Unit Diverted Intake Discharge			<p>calculated by the Excel function.</p> <p>Average unit diverted intake discharge with a unit of lit/sec/ha, which is equivalent to the intake discharge per one hectare (ha) is automatically calculated by the Excel function.</p>									
3.	Evaluation of Development Potential for Water Resources												
	3.1 Seasonal River Discharge 3.2 Seasonal Diverted Intake Discharge 3.3 Development Potential of Water Resources 3.4 Ratio of Qr/Qa 3.5 Evaluation of Water Resource Potential 3.6 Ranking of Potential	Water Resource Potential	Form PW-3	<p>NIS basis of the seasonal river discharges (Qr) with a unit of m³/sec are automatically copied from the Form PW-1.</p> <p>NIS basis of the seasonal diverted intake discharge (Qa) with a unit of m³/sec are automatically copied from the Form PW-2.</p> <p>Development potential (Qp) for seasonal water resources, which could be assumed to be the difference between the seasonal river discharge (Qr) and the diverted intake discharge (Qa), are automatically calculated with a unit of m³/sec.</p> $Q_p = Q_r - Q_a \text{ (m}^3\text{/sec)}$ <p>The ration of Qp/Qa,, which indicates the rate of net available discharge against diverted intake discharge is automatically calculated by the Excel function.</p> <p><u>Weighted Value (WV)</u> Development potential of water resources is presented in the weighted values; 0.7 for the dry season ratio of Qp/Qa, and 0.3 for the wet season ratio, considering higher potential for the dry season irrigation activities than that of the wet season.</p> <p>The ranking for potential of water resources development is analyzed with a presence of “Low”, “Medium”, and “High”, applying the following criterion;</p> <table data-bbox="1041 1292 1568 1396"> <tr> <td>Weighted Value (WV)</td> <td>< 1</td> <td>Low</td> </tr> <tr> <td></td> <td>1 – 5</td> <td>Medium</td> </tr> <tr> <td></td> <td>>5</td> <td>High</td> </tr> </table>	Weighted Value (WV)	< 1	Low		1 – 5	Medium		>5	High
Weighted Value (WV)	< 1	Low											
	1 – 5	Medium											
	>5	High											

No.	Item	Sheet Name	Form	Description Guidelines
				In addition to the above presence, the NISs with relative big river discharges more than 12 m ³ /sec are ranked at “High” indicated in the column of Remarks.
4.	Graph showing Average River and Intake Discharge by Region			
		Graph	Form PW-4	Calculated seasonal river discharges (Qr), diverted intake discharge (Qa) and development potential (Qp) are shown in graph by Region

Form DM-1 Calibration Table of Canal Discharge

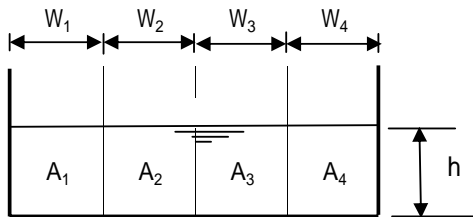
Name of Canal :

Date :

Rectangular Canal

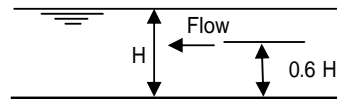
Water Depth (m) h	Canal Section (W)(m)				Canal Section Area of Flow(A) (m ²)				Velocity of Flow (V) (m/sec)				Estimated Canal Discharge (Q) (m ³ /sec)				
	W ₁	W ₂	W ₃	W ₄	A ₁	A ₂	A ₃	A ₄	V ₁	V ₂	V ₃	V ₄	Q ₁	Q ₂	Q ₃	Q ₄	Q
	0	0	0	0	0	0	0	0					0	0	0	0	0
	0	0	0	0	0	0	0	0					0	0	0	0	0
	0	0	0	0	0	0	0	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					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	0

F-125

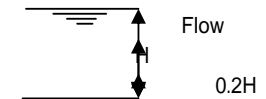


$A = W \times H \text{ (m}^2\text{)}$
 $Q = A \times V \text{ (m}^3\text{/sec)}$

Six-Ten Method



Two Point Me



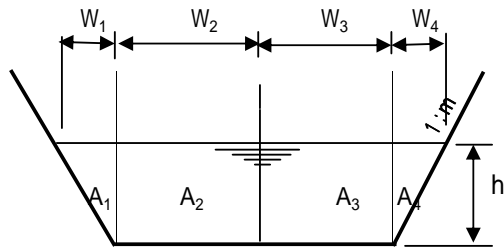
Form DM-2 Calibration Table of Canal Discharge

Name of Canal :
 Date :

Trapezoidal Canal m =

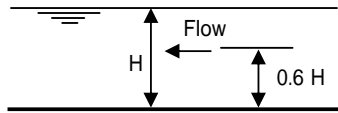
Water Depth (m) h	Canal Section (W)(m)				Canal Section Area of Flow (A) (m ²)				Velocity of Flow (V) (m/sec)				Estimated Canal Discharge (Q) (m ³ /sec)				
	W ₁	W ₂	W ₃	W ₄	A ₁	A ₂	A ₃	A ₄	V ₁	V ₂	V ₃	V ₄	Q ₁	Q ₂	Q ₃	Q ₄	Q
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	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
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	0	0	0	0	0	0

F-126

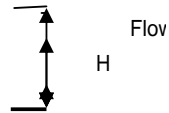


$A_1 = W_1 \times h / 2 = mh^2 / 2 \text{ (m}^2\text{)}$
 $A_2 = W_2 \times h \text{ (m}^2\text{)}$
 $A_3 = W_3 \times h \text{ (m}^2\text{)}$
 $A_4 = W_4 \times h / 2 = mh^2 / 2 \text{ (m}^2\text{)}$
 $Q = A \times V \text{ (m}^3\text{/sec)}$

Six-Ten Method



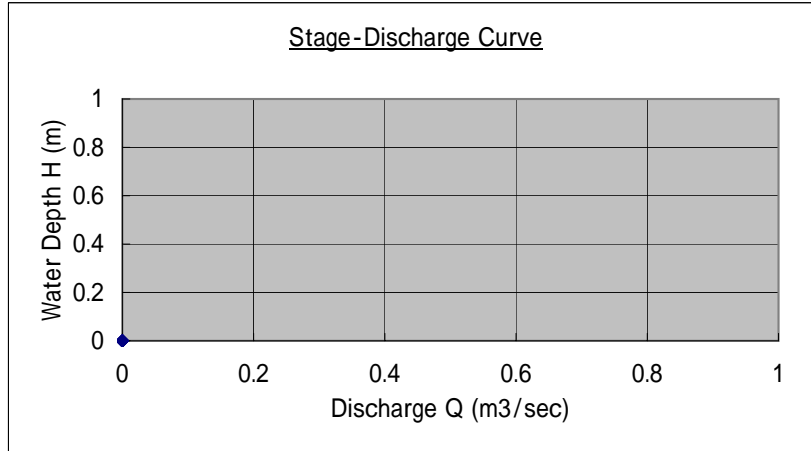
Two Point



Rectangular Canal

Canal Discharge Q (m ³ /sec)	Water Depth h (m)
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
0	0
0	0
0	0
0	0
0	0
0	0

Stage - Discharge Curve



$$H = a Q^2 + b Q + C$$

$$a =$$

$$b =$$

$$c =$$

$$Q = (-b \pm (b^2 - 4a(c - H))^{1/2}) /$$

Stage - Discharge Table

Water Depth (H) (m)	Discharge Q (m ³ /sec)								
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.00	#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!	#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!	#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!
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	#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!	#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!	#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!
	#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!	#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!	#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!
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
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	#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!	#DIV/0!	#DIV/0!	#DIV/0!

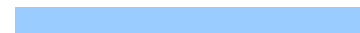
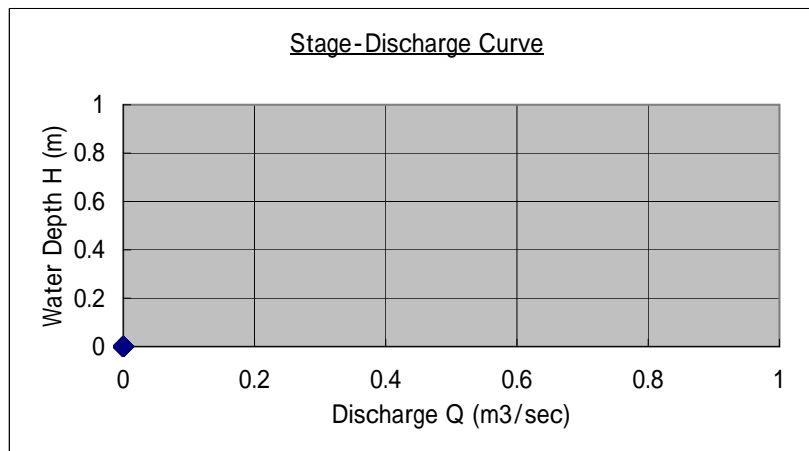
Form DM-4

Developed Stage-Discharge Curve and Calibrated Stage-Discharge Table (Station : _____)

Trapezoidal Canal

Canal Discharge Q (m ³ /sec)	Water Depth h (m)
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
0	0
0	0

Stage - Discharge Curve



$$H = a Q^2 + b Q + C$$

a =

b =

c =

$$Q = (-b \pm (b^2 - 4a (c - H))^{1/2}) / 2a$$

Stage - Discharge Table

Water Depth (H) (m)	Discharge Q (m ³ /sec)								
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.00	#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!	#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!	#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!
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
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	#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!	#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!	#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!
	#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!	#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!	#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!
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Form DM-5 Description Guidelines for Discharge Measurement and Development of Stage-Discharge Curve

No.	Item	Sheet Name	Form	Description Guidelines
1.	Calibration and Development of Stage-Discharge Curve and Table			
	1.1 Discharge Measurement	Calibration Table (Rectangular)	Form DM-1	<p>In case canal section at discharge measuring point is rectangular shape, canal discharge measurement is carried out using this form. As shown in the Form DM-1, canal section is divided into several sections (W) depending on the width of canal, and each cross sectional areas (A) are calculated with a unit of m². After that, flow velocity (V) at each vertical section in accordance with settled water depth (H) is measured using current meter. <u>In the Form, the blue - colored cells are to be inputted the data by manual. On the other hand, the gray-colored cells are automatically calculated by Excel function, so that the gray-colored cells should never be clicked, or never input the data by manual.</u></p> <p>Method of flow velocity measurement is six-tenth method being the most commonly used, if canal depth does not exceed 100 cm. According to this method, an observation at 0.6 of the water depth in the vertical is used as the mean velocity with a unit of m/sec. If canal depth exceeds more than 100 cm, two-point method is taken. In this method, observations are done in all verticals at depths of 0.2 and 0.8 below the water surface and the average of these two observations are taken as the mean velocity in the vertical.</p> <p>Canal discharge with a unit of m³/sec is calculated by multiplying cross sectional area (A) by mean flow velocity (V)</p>
		Calibration Table (Trapezoidal)	Form DM-2	In case canal section at measuring point is trapezoidal shape, Form DM-2 is used. Discharge measuring methods are same as that in case of rectangular shape of canal.
	1.2 Development of Stage-Discharge Curve in Case of Rectangular Canal	Rating Curve (Rectangular)	Form DM-3	<ol style="list-style-type: none"> 1) Results of canal discharge measurement at each water depth are firstly inputted in the blue cells in the Form DM-3, and highlight the data to illustrate the chart. 2) Select the Char- wizard in the tool-bar Select XY (Scatter) Select Chart-Sub-Type (Scatter with data point connected by line) Click Next 3) Input Chart Title (Stage – Discharge Curve) , Value (X) Axis (Discharge Q (m³/sec)), Value (Y) Axis (Water Depth H(m)) Click Next

No.	Item	Sheet Name	Form	Description Guidelines
				<p>4) Click Finish, then Chart by graph is presented.</p> <p>5) Click the Chart, then the Data in the menu-bar change Graph Click the Graph in the menu-bar Select Add Trend Line Select Polynomial Order (2) OK</p> <p>6) Open Option, and Put mark () on Display Equation on Chart OK</p> <p>7) Equation is displayed on the graph Arrange the Equation at adequate location with click.</p>
	1.3 Development of Stage-Discharge Curve in Case of Trapezoidal Canal	Rating Curve (Trapezoidal)	Form DM-4	Same procedures as mentioned in rectangular canal are taken.
	1.4 Calibration of Stage-Discharge Table (Rectangular Canal)	Rating Curve (Rectangular)	Form DM-3	The constant values of Add Trend Line of a, b, and c are inputted by manual in the blue-cells, and then corresponding discharges (Q) to the water depth (H) (Stage-Discharge Table) with a unit of m³/sec are automatically calculated depending on the Add Trend Line.
	1.5 1.5 Calibration of Stage-Discharge Table Trapezoidal Canal)	Rating Curve (Trapezoidal)	Form DM-4	Same procedures as mentioned in rectangular canal are taken.
2.	Observation of Canal Discharge			
		Recording Sheet	Form DM-5	Canal water level (H) at main and each lateral canal will be periodically observed by the Water Master at fixed time of every day. These water levels will be converted to the quantity of discharges (Q) with a unit of m³/sec using the above the “Stage–Discharge Table”. And, 15-day observation data are submitted to the Responsibility Center (RC)/National Irrigation System Office (NISO).

Form DM-6 Recording Sheet of Canal Water Level (Month : _____)

Canal : _____

Measuring Instrument : _____

Month/Date	Time	Ha (cm)	Hb (cm) 1/	Q (lit/sec)	Remarks
/					
/					
/					
/					
/					
/					
/					
Weekly Ave.					

1/ : Hb will be inside water level in double orifice structure.

Date	Time	Ha (cm)	Hb (cm)	Q (lit/sec)	Remarks
/					
/					
/					
/					
/					
/					
/					
/					
Weekly Ave.					

Date	Time	Ha (cm)	Hb (cm)	Q (lit/sec)	Remarks
/					
/					
/					
/					
/					
/					
/					
/					
Weekly Ave.					

Date	Time	Ha (cm)	Hb (cm)	Q (lit/sec)	Remarks
/					
/					
/					
/					
/					
/					
/					
/					
Weekly Ave.					
Monthly Ave.					

Recorded by : _____

Form DM-7

Weekly Reports of Farming Activities, Actual Water Supply and Problems Encountered

Division / SWRFT Area / Zone: _____ Inclusive Date: _____ Week No. _____

Canal / Division		Program Area	Area under Land Soaking (AULS)	Area under Land Preparation (AULP)	Area under Crops Maintenance (AUCM)	Area Planted for the Week (APCC)	Area Planted for the Week (AUI)	Ares Harvested (AH)	Li/Sec for Actual Water Supply	Rainfall (R)	Problems Encountered	Extent of Damage No. of Farmers	Area Affected
		(PA)	(ha)	(ha)	(ha)	(ha)	(ha)	(ha)	(mm/day)	(mm/day)		(ha)	
	Program												
	Actual												
	Program												
	Actual												
	Program												
	Actual												
	Program												
	Actual												
	Program												
	Actual												
	Program												
	Actual												
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	Actual												
	Program												
	Actual												
	Program												
	Actual												
	Program												
	Actual												

AUI = AULS + AULP + AUCM + APOC

Prepared by: _____

WRFT/ SWRFT/ ZONE Engineer

Operation Plan for Water Delivery Schedule

NIS Name : _____ (Region)
Cropping Year : CY 200X - 200X

Submitted by:

Name :

Date :

I. Operation Plan

1. Calculation of Monthly Available Water Supply and Effective Rainfall

(See Form 01 and Form 02.)

Colored boxes are automatically calculated using the Microsoft Excel function, therefore, the boxes should never be clicked, or never input the data by manual.

2. Characterization of Water Management Parameters

2.1 Typical Cropping Pattern of Paddy

Typical cropping pattern on weekly basis is shown. (see Form 03)

2.2 Type of Soil of Service Area

Soil Type :

		Dry Season		Wet Season	
Saturated Capacity	(Sc)		%		%
Field Capacity	(Fc)		%		%
Permanent Wilting Point	(Pwp)		%		%
Bulk Density	(Bd)		ton/m ³		ton/m ³
Depth of Root Zone	(Drz)		mm		mm
	(Fe)		%		%
Submergence	(S)		mm		mm

2.3 Soil Saturation Requirement (Sn)

$$Sn = \frac{Sc - (Mc \times Bd)}{100} \times Drz \quad (mm)$$

where. Mc = Residual moisture content at the time of land soaking (%)

$$\text{Dry Season :} \quad Mc = \frac{Fc + Pwp}{2}$$

$$\text{Wet season :} \quad Mc = Pwp$$

		Dry Season		Wet Season	
Residual Moisture	(Mc)	0.0	%	0.0	%
Saturation Requirement	(Sn)	0	mm	0	mm

2.4 Percolation (P), Evaporation (Ev), and Evapotranspiration (Et)

(Dry Season)

		Rice		Other Crop	
Percolation	(P)		mm/day		mm/day
Evaporation	(Ev)		mm/day		mm/day
Evapotranspiration	(Et)		mm/day		mm/day

(Wet Season)

		Rice		Other Crop	
Percolation	(P)		mm/day		mm/day
Evaporation	(Ev)		mm/day		mm/day
Evapotranspiration	(Et)		mm/day		mm/day

2.5 Crop Water Requirement (CWR)

$$CWR = P + Et$$

(Dry Season)

		Rice		Other Crop	
Crop Water Requirement	(CWR)	0.00	mm/day	0.00	mm/day

(Wet Season)

		Rice		Other Crop	
Crop Water Requirement	(CWR)	0.00	mm/day	0.00	mm/day

2.6 Farm Waste and Distribution Losses (FW + DL)

$$FW + DL = 30\% \times CWR$$

2.7 Conveyance Losses (CL) (See Form 04)

$$CL = Wpa \times L \times cl / 86.4 \quad (\text{lit/sec})$$

where : Wpa : Average wetted perimeter of the canal/canal section (m)
 L : Length of canal (m)
 cl : Late of conveyance loss (m³/m²/day)

Conveyance Losses (CL) =

0.00	lit/sec
0.00	lit/sec

 (Dry Season) (refer to Form 04)
 (Wet Season)

Rate of Conveyance Losses (CLt):

	Dry Season		Wet Season	
	Irrigation Div. Req. (Qa)	0.00	lit/sec	0.00
Conveyance Loss (CL)	0.00	lit/sec	0.00	lit/sec
CLt	#DIV/0!	%	#DIV/0!	%

3. Water Requirements, Turn-Out Duty and Discharge, and Irrigation Diversion Requirement

3.1 Crop Water Requirement (CWR) (refer to 2.5)

3.2 Turn-Out Water Duty (qtni)

Without effective rainfall ;

$$qtni = (CWR + (FW + DL)) / 8.64 \quad (\text{lit/sec/ha})$$

With effective rainfall ;

$$qtni = (CWR + (FW + DL) - RE) / 8.64 \quad (\text{lit/sec/ha})$$

where; RE : Effective rainfall (mm)

Turn-out water duty for both crops of rice and other crops in cases of dry and wet wet seasons is given in Form 04-1.

3.3 Turn-Out Discharge (qtni)

$$Qtni = qtni \times Ani \quad (\text{lit/sec})$$

where ; Ani : Programmed Ares (ha) (Based on the Annual Report of Irrigated Area)

Rice	:		ha	(Dry Season)	
			ha	(Wet Season)	
Other Crop	:		ha	(Dry Season)	
			ha	(Wet Season)	

Turn-out discharge for both crops of rice and other crop in cases of dry and wet seasons is given in Form 04-1.

3.4 Irrigation Diversion Requirement (IDR)

$$IDR = Qtni / (1 - CLt / 100) \quad (\text{lit/sec})$$

where ; Qtni : Turn-out discharge (lit/sec)
 CLt : Rate of conveyance losses

Irrigation diversion requirement (IDR) is given in Form04-1.

4. Calculation of Area to be Programmed for Irrigation and Date of Initial Water Delivery (See Form 05)

4.1 Computing the Turn-out Water Duty (qt_{ni} in lit/sec/ha) during Each Month considering Normal Irrigation (procedures are same as that applied in Form 04)

4.2 Computing the Monthly Programed Area (A in ha) that could be irrigated during Normal Irrigation using following formula.

$$A = Qa \times (1 - CLt / 100) / qt_{ni} \quad (\text{ha})$$

where ; Qa : Available water supply (lit/sec)
 CLt : Rate of conveyance losses (%)

5. Computation of Weekly Land Soaking Area during Land Soaking Period (See Form 06)

A. Dry Season Paddy

Given Data	:	Refer to Form 05	
Date of Initial Water Delivery	:		
Programmed Area (Ani)	Rice	: 0 ha	(Dry Season)
	Others	: 0 ha	(Dry Season)
Water Management Parameters	:	Refer to Form 06	
Available Intake Discharge	:	Qa	#DIV/0! (lit/sec) (refer to Form 01-1)
Rate of Conveyance Losses	:	CLt	#DIV/0! (%)
Soil Saturation Requirement	:	Sn	0 (mm) (Dry Season)
	:	S_n	0 (mm) (Wet Season)
Submergence for Cultivation	:	S	0 (mm)
Percolation	Rice	: P	0 (mm/day)
	Other	: P	0 (mm/day)
Evaporation	:	Ev	0 (mm/day)
Evapotranspiration	Rice	: Et	0 (mm/day)
	Others	: Et	0 (mm/day)
Farm Waste + DL	Rice	: $FW + DL$	0 (mm/day)
	Others	: $FW + DL$	0 (mm/day)

5.1 Computing Available Discharge at the Turn-Out (Q_{at})

$$Q_{at} = Qa \times (1 - CLt / 100) \quad (\text{lit/sec})$$

5.2 Computing Net Delivery Water in the Fields (Q_{af})

$$Q_{af} = Q_{at} / (1 + (FW + DL) / 8.64) \quad (\text{lit/sec})$$

5.3 Computing Volumes of Net Water Delivered (V_{af}) in the Field

$$V_{af} = Q_{af} \times 86,400 / 1,000 \quad (\text{cu.m/day})$$

5.4 Computing Depth of Water (Dr) to be replenished to Land Soaking Area during Previous Weeks which are under Land Preparation to take Care of Ev and P

$$Dr = (Ev + P - RE) / 1,000 \quad (\text{m/day})$$

5.5 Computing Volume of Water (V_r) for Replenishment to Area under Land Preparation

$$V_r = D_r \times A_{lp} \times 10,000 \quad (\text{cu.m/day})$$

where : A_{lp} : Area under Land Preparation (Area for 2 Weeks) (ha)

5.6 Computing Depth of Water (D_{ni}) to be supplied to Areas under Normal Irrigation

$$D_{ni} = (E_t + P - RE) / 1,000 \quad (\text{m/day})$$

5.7 Computing Volume of Water (V_{ni}) to be supplied to Areas under Normal Irrigation

$$V_{ni} = D_{ni} \times A_{ni} \times 10,000 \quad (\text{cu.m/day})$$

where; A_{ni} : Area under Normal Irrigation (ha)

5.8 Computing Volume of Net Water (V_L s) to be delivered to Field that is Available for Land Soaking (V_L)

$$V_Ls = V_{af} - V_r - V_{ni} \quad (\text{cu.m/day})$$

5.9 Computing Volume of Land Soaking Irrigation Requirement (V_{LSir})

$$V_{LSir} = L_{Sir} \times 10 \quad (\text{cu.m/day})$$

where: $L_{Sir} = S_n + S - RE \times 7 \text{ days}$ (mm)

5.10 Computing Daily Area that could be Land Soaking (A_L s)

$$A_Ls = V_Ls / V_{LSir} \quad (\text{ha})$$

5.11 Total Land Soaked Area during the Week (7-day) (A_{LS})

$$A_{LS} = V_Ls \times 7 \text{ days} / V_{LSir} \quad (\text{ha})$$

5.12 Comparison between A_{LS} and A_{ni} (See Form 06)

If $A_{LS} > A_{ni}$, the same calculation procedures will be repeated with cumulative number of weeks.

5.13 Maximum Unit Land Soaking Irrigation Requirement (q_{tsi}) (See Form 06)

$$q_{tsi} = L_{Sir} / (8.64 \times D_n) \quad (\text{lit/sec/ha})$$

where : $D_n =$ Number of Day for Land Soaking for Unit Area
 $= 7 \text{ days}$

5.14 Projected Progress of Farming Activities (See Form 06-1)

Weekly base farming activities classified into land soaking, planting, rooting, terminal drainage and harvesting works is projected.

5.15 Land Soaking Water Delivery Schedule (See Form 06-2)

Weekly base water delivery schedule for land soaking works will be tabulated, based on calculated total land soaked area.

B. Wet Season Paddy

Given Data	:	Refer to Form 05	
Date of Initial Water Delivery	:		
Programmed Area (Ani) Rice	:	0 ha	(Dry Season)
Others	:	0 ha	(Dry Season)
Water Management Parameters	:	Refer to Form 06	
Available Intake Discharge	:	Qa	#DIV/0! (lit/sec) (refer to Form 01-1)
Rate of Conveyance Losses	:	CLt	#DIV/0! (%)
Soil Saturation Requirement	:	Sn	0 (mm) (Dry Season)
Submergence for Cultivation	:	S	0 (mm)
Percolation Rice	:	P	0 (mm/day)
Other	:	P	0 (mm/day)
Evaporation	:	Ev	0 (mm/day)
Evapotranspiration Rice	:	Et	0 (mm/day)
Others	:	Et	0 (mm/day)
Farm Waste + DL Rice	:	FW +DL	0 (mm/day)
Others	:	FW +DL	0 (mm/day)

On the basis of above given data, same calculation of 5.1 to 5.15 will be undertaken.

Form 01 Average River Discharges (Qr)

(River Name : River)

(unit : m³/sec)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
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!
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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!
2002													#DIV/0!
2003													#DIV/0!
2004													#DIV/0!
2005													#DIV/0!
2006													#DIV/0!
													#DIV/0!
													#DIV/0!
Average	#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!

Form 01-1 Average Diverted Intake Discharges (Qa)

(unit : lit/sec)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
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!
													#DIV/0!
Average	#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!

F-140

Designed Capacity of Main Canal(Qc) : lit/sec

Form 01-2 Average Diverted Intake Discharges (Qa)

(unit : m³/sec)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1980	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
1981	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
1982	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
1983	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
1984	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
1985	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
1986	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
1987	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
1988	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
1989	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
1990	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
1991	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
1992	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
1993	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
1994	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
1995	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
1996	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
1997	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
1998	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
1999	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
2000	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
2001	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
2002	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
2003	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
2004	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
2005	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
2006	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
Average	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

F-141

Designed Capacity of Main Canal(Qc) : m³/sec

Form 02 Monthly Rainfall (R)

(unit : mm/month)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average	Total
1980													#DIV/0!	0.0
1981													#DIV/0!	0.0
1982													#DIV/0!	0.0
1983													#DIV/0!	0.0
1984													#DIV/0!	0.0
1985													#DIV/0!	0.0
1986													#DIV/0!	0.0
1987													#DIV/0!	0.0
1988													#DIV/0!	0.0
1989													#DIV/0!	0.0
1990													#DIV/0!	0.0
1991													#DIV/0!	0.0
1992													#DIV/0!	0.0
1993													#DIV/0!	0.0
1994													#DIV/0!	0.0
1995													#DIV/0!	0.0
1996													#DIV/0!	0.0
1997													#DIV/0!	0.0
1998													#DIV/0!	0.0
1999													#DIV/0!	0.0
2000													#DIV/0!	0.0
2001													#DIV/0!	0.0
2002													#DIV/0!	0.0
2003													#DIV/0!	0.0
2004													#DIV/0!	0.0
2005													#DIV/0!	0.0
2006													#DIV/0!	0.0
													#DIV/0!	
													#DIV/0!	
Average	#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!	0.0

Form 02-1 Monthly Effective Rainfall (RE) ^{1/}

(unit : mm/day)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1976													#DIV/0!
1977													#DIV/0!
1978													#DIV/0!
1979													#DIV/0!
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!
													#DIV/0!
													#DIV/0!
Average	#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!

1/ : Regarding estimation methods of effective rainfall, Estimation of Effective Rainfall (Form RE-1) should be referred.

(Dry Season)

Month Date	Oct.				Nov.				Dec.				Jan.				Feb.				Mar.				Apr.				Mat					
					1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28	7	14	21	28	4	11	18	25	2	13	20	27
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				NORMAL IRRIGATION PERIOD								TD/H																	

(Wet Season)

Month Date	May		June				July				Aug.				Sept.				Oct.				Nov.				Dec.						
			2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	1	7	14	21	28
Week			8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	30	6	13	20	27	3
			LS/LP				NORMAL IRRIGATION PERIOD								TD/H																		

Form 04-1 Turn-out Water Duty (qtni) and Discharge (Qtni) without/with Effective Rainfall

Without Effective Rainfall

Month	Turn-Out Water Duty (qtni)										Turn-Out Discharge (Qtni)					Irrigation Diversion Requirement (IDR)	
	for Rice					for Other Crops					Programed Area		Discharge			CLt	IDR
	P + Et	FW + DL	ER	qtni		P + Et	FW + DL	ER	qtni		for Rice	for Other Crop	for Rice	for Other Crop	Total		
	(mm/day)	(mm/day)	(mm/day)	(mm/day)	(lit/sec/ha)	(mm/day)	(mm/day)	(mm/day)	(mm/day)	(lit/sec/ha)	(ha)	(ha)	(lit/sec)	(lit/sec)	(lit/sec)	(%)	(lit/sec)
Jan.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Feb.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Mar.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Apr.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
May	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
June.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Aug.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Sept.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Oct.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Nov.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!
Dec.	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	#DIV/0!	#DIV/0!

With Effective Rainfall

Month	Turn-Out Water Duty (qtni)										Turn-Out Discharge (Qtni)					Irrigation Diversion Requirement (IDR)	
	for Rice					for Other Crops					Programed Area		Discharge			CLt	IDR
	P + Et	FW + DL	ER	qtni		P + Et	FW + DL	ER	qtni		for Rice	for Other Crop	for Rice	for Other Crop	Total		
	(mm/day)	(mm/day)	(mm/day)	(mm/day)	(lit/sec/ha)	(mm/day)	(mm/day)	(mm/day)	(mm/day)	(lit/sec/ha)	(ha)	(ha)	(lit/sec)	(lit/sec)	(lit/sec)	(%)	(lit/sec)
Jan.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Feb.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mar.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Apr.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	#REF!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
May	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
June.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
July	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Aug.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sept.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Oct.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nov.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Dec.	0.00	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Form 05 Calculation of Area to be Programmed for Irrigation and Determination of the Date of Initial Release of Water for Landsoaking

Cropping Pattern	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
	Dry Season Rice						Wet Season Rice				Dry Season Rice		
PAd =		0 ha		Programmed Area :						Paw =		0 ha	

With Effective Rainfall

Item			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average River Discharge	Qr	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average Intaked Discharge	Qi	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Canal/Structure Capacity	Qc	lit/sec	0	0	0	0	0	0	0	0	0	0	0	0
Available Water Supply	Qa	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Convetyance Loss of Qa	CLt	%	Rice	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		%	Others	-	-	-	-	-	-	-	-	-	-	-
Percolation	P	mm/day	Rice	0	0	0	0	0	0	0	0	0	0	0
			Others	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	Et	mm/day	Rice	0	0	0	0	0	0	0	0	0	0	0
			Others	0	0	0	0	0	0	0	0	0	0	0
Crop Water Requirement	CWR	mm/day	Rice	0	0	0	0	0	0	0	0	0	0	0
			Others	0	0	0	0	0	0	0	0	0	0	0
Farm Waste and Distribution Losses	FW+DL	mm/day	Rice	0	0	0	0	0	0	0	0	0	0	0
			Others	0	0	0	0	0	0	0	0	0	0	0
Average Effective Rainfall	RE	mm/day	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Turn-Out Water Duty	qtni	lit/s/ha	Rice	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
			Others	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Area to be Programmed	A	ha	Rice	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
			Others											

Without Effective Rainfall

Item			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average River Discharge	Qr	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average Intaked Discharge	Qi	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Canal/Structure Capacity	Qc	lit/sec	0	0	0	0	0	0	0	0	0	0	0	0
Available Water Supply	Qa	lit/sec	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Convetyance Loss of Qa	CLt	%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		Rice	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Percolatiom	P	%	-	-	-	-	-	-	-	-	-	-	-	-
		Others	0	0	0	0	0	0	0	0	0	0	0	0
Evapotranspiration	Et	mm/day	0	0	0	0	0	0	0	0	0	0	0	0
		Rice	0	0	0	0	0	0	0	0	0	0	0	0
Crop Water Requirement	CWR	mm/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Farm Waste and Distribution Losses	FW+DL	mm/day	0	0	0	0	0	0	0	0	0	0	0	0
		Rice	0	0	0	0	0	0	0	0	0	0	0	0
Average Effective Rainfall	RE	mm/day	0	0	0	0	0	0	0	0	0	0	0	0
		Others	0	0	0	0	0	0	0	0	0	0	0	0
Turn-Out Water Duty	qtni	lit/s/ha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Area to be Programmed	A	ha	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		Rice	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		Others												

Form 06

Computation of Weekly Land Soaking Area

(Dry Season)

Programmed Area	Ani =	0	ha
Available Water Supply at Intake	Qa =		(lit/sec)
Rate of Conveyance Lossess	CLt =	#DIV/0!	(%)
Soil saturation Requirement	Sn =	0	(mm)
Submergence for Cultivation	S =	0	(mm)
Percolation	P =	0	(mm/day)
Evaporation	Ev =	0	(mm/day)
Evapotranspiration	Et =	0	(mm/day)
Farm Waste + Dist. Losses	FW +DL =	0	(mm/day)

$Qa = \text{Available water supply (lit/sec)}$
 $Qat = Qa \times (1 - CLt / 100)$ (lit/sec)
 $Qaf = Qat / (1 + (FW + DL) / 8.64)$ (lit/sec)
 $Vaf = Qaf \times 86,400 / 1,000$ (cu.m/day)
 $Dr = (Ev + P - RE) / 1,000$ (m/day)
 $Vr = Dr \times Alp \times 10,000$ (cu.m/day)

$Dni = (Et + P - RE) / 1,000$ (m/day)
 $Vni = Dni \times Ani \times 10,000$ (cu.m/day)
 $VLS = Vaf - Vr - Vni$ (cu.m/sec)
 $VLSir = VLS \times 10$ (cu.m/sec)
 $LSir = Sn + S - RE \times 7 \text{ day}$ (mm)
 $ALS = VLS / VLSir$ (ha)
 $ALS = VLS \times 7 \text{ days} / VLSir$ (ha)

WeeK No	Date	Qat		Qaf	Vaf	Dr	Vr		Dni	Vni		VLS	VLSir		ALS	ALS	Ani -ALS
		Qa	Qat				Alp	Vr		Ani	Vni		LSir	VLSir			
		(lit/sec)	(lit/sec)	(ha)	(cu.m/day)	(m/day)	(ha/7day)	(cu.m/day)	(m/day)	(ha/7day)	(cu.m/day)	(cu.m/day)	(mm)	(cu.m/day)	(ha/day)	(ha/7day)	(ha/7day)
		(5.1)	(5.2)	(5.3)	(5.4)	(5.5)	(5.6)	(5.7)	(5.8)	(5.9)	(5.10)	(5.11)	(5.12)				
1		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2		#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!	
3		#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!	
4		#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!	
5		#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!	
6																	
7																	
8																	

Maximun Unit Land Soaking Irrigation Requirement qtsi = #DIV/0! lit/sec/ha

(Wet Season)

Programmed Area	Ani =	0	ha
Available Water Supply at Intake	Qa =		(lit/sec)
Rate of Conveyance Lossess	CLt =	#DIV/0!	(%)
Soil saturation Requirement	Sn =	0	(mm)
Submergence for Cultivation	S =	0	(mm)
Percolation	P =	0	(mm/day)
Evaporation	Ev =	0	(mm/day)
Evapotranspiration	Et =	0	(mm/day)
Farm Waste + Dist. Losses	FW +DL =	0	(mm/day)

WeeK No	Date	Qat		Qaf	Vaf	Dr	Vr		Dni	Vni		VLS	VLSir		ALS	ALS	Ani -ALS
		Qa	Qat				Alp	Vr		Ani	Vni		LSir	VLSir			
		(lit/sec)	(lit/sec)	(lit/sec)	(cu.m/day)	(m/day)	(ha)	(cu.m/day)	(m/day)	(ha/7day)	(cu.m/day)	(cu.m/day)	(mm)	(cu.m/day)	(ha/day)	(ha/7day)	(ha/7day)
		(5.1)	(5.2)	(5.3)	(5.4)	(5.5)	(5.6)	(5.7)	(5.8)	(5.9)	(5.10)	(5.11)	(5.12)				
1		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2		#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!	
3		#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!	
4		#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!	
5		#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!	
6		#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!	
7		#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!	
8																	

Maximun Unit Land Soaking Irrigation Requirement qtsi = #DIV/0! lit/sec/ha

Form 06-1 Projected Progress of Farming Activities

Dry Season

Week No.	Programmed Area = 0 ha				
	Land Soaking	Planting	Rooting	Terminal Drainage	Harvesting
	(ha)	(ha)	(ha)	(ha)	(ha)
1	#DIV/0!				
2	#DIV/0!				
3	#DIV/0!				
4	#DIV/0!				
5	#DIV/0!				
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
Total	0.0	0.0	0.0	0.0	0.0

Week No.	Programmed Area = 0 ha				
	Land Soaking	Planting	Rooting	Terminal Drainage	Harvesting
	(%)	(%)	(%)	(%)	(%)
1	#DIV/0!				
2	#DIV/0!				
3	#DIV/0!				
4	#DIV/0!	#DIV/0!			
5	#DIV/0!	#DIV/0!			
6		#DIV/0!			
7		#DIV/0!			
8		#DIV/0!			
9					
10					
11					
12					
13					
14					
15					
16					
17					
18				#DIV/0!	
19				#DIV/0!	
20				#DIV/0!	#DIV/0!
21				#DIV/0!	#DIV/0!
22				#DIV/0!	#DIV/0!
23					#DIV/0!
24					#DIV/0!
Total	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!

Wet Season

Week No.	Programmed Area = 0 ha				
	Land Soaking	Planting	Rooting	Terminal Drainage	Harvesting
	(ha)	(ha)	(ha)	(ha)	(ha)
1	#DIV/0!				
2	#DIV/0!				
3	#DIV/0!				
4	#DIV/0!				
5	#DIV/0!				
6	#DIV/0!				
7	#DIV/0!				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
Total	0.0	0.0	0.0	0.0	0.0

Week No.	Programmed Area = 0 ha				
	Land Soaking	Planting	Rooting	Terminal Drainage	Harvesting
	(%)	(%)	(%)	(%)	(%)
1	#DIV/0!				
2	#DIV/0!				
3	#DIV/0!				
4	#DIV/0!	#DIV/0!			
5	#DIV/0!	#DIV/0!			
6	#DIV/0!	#DIV/0!			
7	#DIV/0!	#DIV/0!			
8		#DIV/0!			
9		#DIV/0!			
10		#DIV/0!			
11					
12					
13					
14					
15					
16					
17					
18				#DIV/0!	
19				#DIV/0!	
20				#DIV/0!	#DIV/0!
21				#DIV/0!	#DIV/0!
22				#DIV/0!	#DIV/0!
23				#DIV/0!	#DIV/0!
24				#DIV/0!	#DIV/0!
25					#DIV/0!
26					#DIV/0!
Total	#DIV/0!	#DIV/0!	0.0	#DIV/0!	#DIV/0!

No.	Item	Sheet Name	Form	Description Guidelines
	Calculation Flow			<p>1. Calculation of Monthly Available Water Supply and Effective Rainfall</p> <div data-bbox="1122 359 1877 528" style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> - Average River Discharge (Qr) (Form 01) - Average Diverted Intake Discharge (Qa) (Form 01-1) - Monthly Rainfall (R) (Form 02) - Monthly Effective Rainfall (RE) (Form 02-1) </div> <p style="text-align: center;">↓</p> <p>2. Characterization of Water Management Parameters</p> <div data-bbox="1122 647 1865 817" style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> - Cropping Pattern (Form 03) - Characterization of Water Management Parameter (Form 04) - Calculation of Crop Water Requirement (CWR), Conveyance Losses (CL), etc. </div> <p style="text-align: center;">↓</p> <p>3. Water Requirements, Turn-Out Duty and Discharge and Irrigation Diversion Requirements</p> <div data-bbox="1122 962 1865 1059" style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> - Calculation of Turn-Out Duty (qtni), Turn-Out Discharge (qtni), Irrigation Diversion Requirements (IDR) </div> <p style="text-align: center;">↓</p> <p>4. Calculation of Areas to be programmed for Irrigation and Date of Initial Water Delivery</p> <div data-bbox="1061 1204 2013 1302" style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> - Calculation of Turn-Out Water Duty (qtni) considering Normal Irrigation - Calculation of Monthly Programmed Area (A) during Normal Irrigation Period (Form 05) </div> <p style="text-align: center;">↓</p>

No.	Item	Sheet Name	Form	Description Guidelines
				<p>5. Calculation of Weekly Land Soaking Area (ALS) and Water Delivery Schedule (Form 06), (Form 06-1) and (Form 06-2)</p> <div style="border: 1px solid black; padding: 10px;"> <ul style="list-style-type: none"> - Available Discharge at Turn-Out (Qat) - Net Delivery of Fields (Qaf) - Volumes of Net Water Delivered in the Field (Vaf) - Depth of Water to be replenished to Land Soaking Area (Dr) - Volume of Water (Vr) for Replenishment to Area under Land Preparation - Depth of Water (Dni) to be supplied to Area under Normal Irrigation - Volume of Water (Vni) to be supplied to Areas under Normal Irrigation - Volume of Net Water (VLs) to be delivered to Field - Volume of Land Soaking Irrigation Requirement (VLSir) - Daily Land Soaking Area (Als) - Total Land Soaking Area (ALS) during a Week (7-days) - Maximum Unit land Soaking Irrigation Requirement (qtsi) - Projected Progress of Farming Activities - Land Soaking Water Delivery Schedule </div>
1.	Calculation of Monthly Available Water Supply and Effective Rainfall			
		River Discharge	Form 01	Average River Discharges (Qr) Monthly Average River Discharges (Qr) with a unit of m³/sec are tabulated based on the data observed at diversion dam site.
		Diverted Intake Discharge	Form 01-1	Average Diverted Intake Discharge (Qa) Monthly Average Diverted Intake Discharge (Qa) with a unit of lit/sec are tabulated based on the data observed at immediate downstream of intake gate of diversion dam.
			Form 01-2	Average Diverted Intake Discharge (Qa) The data given in Form 01-1 is presented by a unit of m³/sec , which will be converted automatically from the unit of lit/sec by the Micro-Soft Excel function.
		Rainfall	Form 02	Monthly Rainfall (R) Monthly Rainfall data(R)with a unit of mm/month observed near service area or neighboring drainage area/diversion site are tabulated.

No.	Item	Sheet Name	Form	Description Guidelines																																		
		Rainfall	Form 02-1	Monthly Effective Rainfall (RE) Monthly Effective Rainfall (RE) with a unit of mm/day is tabulated. Criteria to estimate an effective rainfall are referred to the attached “Estimation Procedures for Effective Rainfall”.																																		
2.	Characterization of Water Management Parameters																																					
	2.1 Typical Cropping Pattern of Paddy	Cropping Pattern	Form 03	Prevailing dry and wet season cropping patterns of paddy are illustrated on the weekly basis with classification of land-soaking/land preparation (LS/LP), normal irrigation period (NI), and terminal drainage/harvesting (TD/H).																																		
	2.2 Type of Soil in Service Area	Main		<p>Following soil characteristics are inputted by manual for both dry and wet season crops (the blue-colored cells are requested to input the data by manual);</p> <ul style="list-style-type: none"> - Soil Type - Saturated capacity - Field Capacity - Permanent Wilting Point - Bulk Density - Depth of Root Zone - Submergence <p>According to the “Specific Operation and Maintenance Manual” (Vol. I) prepared by NIA in 1991, following standard values by soil type are presented;</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Sandy</th> <th colspan="4">Soil Characteristics (%)</th> </tr> <tr> <th>Sc</th> <th>Fc</th> <th>Bd</th> <th>Pwp</th> </tr> </thead> <tbody> <tr> <td>Sandy Loam</td> <td>38</td> <td>9</td> <td>1.65</td> <td>4</td> </tr> <tr> <td>Loam</td> <td>43</td> <td>14</td> <td>1.50</td> <td>6</td> </tr> <tr> <td>Clay Loam</td> <td>47</td> <td>22</td> <td>1.35</td> <td>13</td> </tr> <tr> <td>Silty Loam</td> <td>51</td> <td>31</td> <td>1.30</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>53</td> <td>35</td> <td>1.25</td> <td>17</td> </tr> </tbody> </table>	Sandy	Soil Characteristics (%)				Sc	Fc	Bd	Pwp	Sandy Loam	38	9	1.65	4	Loam	43	14	1.50	6	Clay Loam	47	22	1.35	13	Silty Loam	51	31	1.30	15	Clay	53	35	1.25	17
Sandy	Soil Characteristics (%)																																					
	Sc	Fc	Bd	Pwp																																		
Sandy Loam	38	9	1.65	4																																		
Loam	43	14	1.50	6																																		
Clay Loam	47	22	1.35	13																																		
Silty Loam	51	31	1.30	15																																		
Clay	53	35	1.25	17																																		
	2.3 Soil Saturation Requirement	Main		Residual Moisture (Mc) and Soil Saturation Requirement (Sn) are automatically computed applying the Excel function with <u>the gray-colored cell</u> . <u>Therefore, the gray-colored boxes should never be clicked, or never input the data by manual.</u>																																		
	2.4 Percolation, Evaporation, Evapo-Transpiration	Main		Rates of Percolation (P), Evaporation (Ev) and Evapo-Transpiration (Et), of which unit is mm/day are inputted for both dry and wet season paddy and other crops if needed.																																		

No.	Item	Sheet Name	Form	Description Guidelines
	2.5 Crop Water Requirement	Main		Crop Water Requirements (CWR) with a unit of mm/day are automatically computed applying the Excel functions.
	2.6 Farm Waste and Distribution Losses	Main/IDR	Form 04	The rates of Farm Waste and Distribution Losses (FW +DL) with a unit of mm/day are automatically computed applying the Excel function.
	2.7 Conveyance Losses (CL)	Main/IDR	Form 04	Conveyance Losses (CL) with a unit of lit/sec are automatically computed applying the Excel functions with the inputted data such as canal length, average wetted perimeter of canal, rate of conveyance losses by soil texture.
3.	Water Requirements, Turn-Out Duty and Discharge, and Irrigation Diversion Requirement			
	3.1 Crop Water Requirement (CWR)	Main		Refer to “2.5 Crop Water Requirement” mentioned above.
	3.2 Turn-Out Water Duty (qtni)	Main/Turn-Out Water	Form 04-1	Turn-Out Water Duty (qtni) with a unit of lit/sec/ha for both crops of rice and other crops in cases of wet and dry season is automatically computed applying the Excel function.
	3.3 Turn-Out Discharge (qtni)	Main/Turn-Out Water	Form 04-1	Turn-Out Discharges (qtni) with a unit of lit/sec for both crops of rice and other crops in cases of dry and wet seasons are automatically computed applying the Excel function.
	3.4 Irrigation Diversion Requirement (IDR)	Main/Turn-Out Water	Form 04-1	Irrigation Diversion Requirements (IDR) with a unit of lit/sec for both crops of rice and other crops in cases of without and with effective rainfall are automatically computed applying the Excel function.
4.	Calculation of Area to be Programmed for Irrigation and Date of Initial Water Delivery			
	4.1 Calculating the Turn-Out Water Duty (qtni)	Main/Calculation of Program Area	Form 05	Turn-Out Water Duty (qtni) with a unit of lit/sec/ha is automatically computed by the Excel function in case of with and without effective rainfall. Aside from the computation, typical cropping patterns for dry and wet season paddy should be delineated for references.
	4.2 Monthly Programmed Area (A)	Main/Calculation of Program Area	Form 05	Monthly Programmed Area (A) with a unit of hectare (ha) is automatically computed by the Excel function in case of with and without effective rainfall.
5.	Computation of Weekly Land-Soaking Area			
	A. Dry Season Paddy	Main/Weekly Land Soaking Area		Necessary basic dimensions to calculate weekly basis land soaking areas are automatically presented.

No.	Item	Sheet Name	Form	Description Guidelines
	5.1 Computing Available Discharge at Turn-Out (Qat)	Main/Weekly Land-Soaking Area	Form 06	Weekly basis of date from starting of land-soaking works is inputted in the column of Date, and also Available Intake Discharge (Qa) with a unit of lit/sec corresponding to the date in the month (derived from Form 01-1) is inputted. Then Available Discharge at Turn-Out (Qat) with a unit of lit/day is automatically calculated.
	5.2 Computing Net Delivery Water in the Field (Qaf) 5.3 Computing Volumes of Net Water Delivered in the Field (Vaf)	Main/Weekly Land Soaking Area	Form 06	Net Delivery Water in the Field (Qaf) with a unit of lit/sec and Volumes of Net Water Delivered (Vaf) with a unit of m³/sec are automatically computed by Excel function.
	5.4 Computing Depth of Water (Dr) to be replenished to Land Soaking Area	Main/Weekly Land Soaking Area	Form 06	Depth of Water (Dr) with a unit of m/day is computed applying the following equation; $Dr = (Ev + P - RE)/1,000$ <p>In the computation regarding to the RE in the above equation, cell location of average monthly effective rainfall (Form 02-1) corresponding to the month should be specified and altered as shown below; $Dr = Round((\\$F\\$10 + \\$F\\$11 - Rainfall_{L\\$75})/1000,5)$ (L is altered depending on the month)</p>
	5.5 Computing Volume of Water (Vr)	Main/Weekly Land Soaking Area	Form 06	First week figure of Area under Land Preparation (Alp) with a unit of ha is inputted manually with zero (0), but second week figure is inputted manually with the calculated total land soaked area during the previous week (7-day). By the input of Alp, Volume of Water (Vr) for replenishment to area with a unit of m³/day is automatically calculated.
	5.6 Computing Depth of Water (Dni)	Main/Weekly Land Soaking Area	Form 06	Depth of Water (Dni) with a unit of m/day is automatically computed by Excel function.
	5.7 Computing Volume of Water (Vni)			First and second week figures of Areas under Normal Irrigation (Ani) with a unit of ha are inputted manually with zero (0), but third week figure is inputted manually with the calculated total first week land soaking area (ALS ₁). The figure for fourth week becomes an accumulation of first and second week land soaking areas (ALS ₁ + ALS ₂). By the input of ALS, Volume of Water (Vni) to be supplied to area with a unit of m³/day is automatically calculated.
	5.8 Volume of Net Water (VLs)	Main/Weekly Land Soaking Area	Form 06	Volume of Net Water (VLs) with a unit of m³/day to be delivered to fields is automatically computed by the Excel function.

No.	Item	Sheet Name	Form	Description Guidelines																																		
	5.9 Volume of Land Soaking Irrigation Requirement (VLSir)	Main/Weekly Land Soaking Area	Form 06	<p>Land Soaking Irrigation Requirement (LSir) with a unit of mm can be computed applying the following equation; $LSir = S_n + S - RE \times 7 \text{ day}$</p> <p>In the computation regarding to the RE in the above equation, cell location of average monthly effective rainfall (Form 02-1) corresponding to the month should be specified and altered as shown below;</p> <p>$LSir = \\$F\\$8 + \\$F\\$9 - (\text{Rainfall } \\$L\\$75) \times 7$ (L is altered depending on the month) Then, Volume of Land Soaking Irrigation Requirement (VLSir) with a unit of m³/day is automatically computed by Excel function.</p>																																		
	5.10 Daily Areas of Land Soaking (ALs)			Daily Area that could be Land Soaking (ALs) with a unit of ha/day is automatically computed by the Excel function.																																		
	5.11 Total Land Soaking Area (ALS)	Main/Weekly Land Soaking Area	Form 06	Total Land Soaking Area during the week (ALS) with a unit of ha/7day is also automatically computed by the Excel function.																																		
	5.12 Comparison between ALS and Ani	Main/Weekly Land Soaking Area	Form 06	The balance of (Ani – ALS) with a unit of ha/7 day is computed, and if ALS – Ani >0, same calculation procedures are repeated with cumulative number of weeks until ALS – Ani <0																																		
	5.13 Max. Unit Land Soaking Irrigation Requirement (qtsi)	Main/Weekly Land Soaking Area	Form 06	Maximum Unit Land Soaking Irrigation Requirement (qtsi) with a unit of lit/sec/ha , which includes an effective rainfall, is automatically computed by the Excel function.																																		
	5.14 Projected Progress of Farming Activities	Main/Farming Activities	Form 06-1	<p>Weekly basis farming activities classified into land soaking, planting, rooting, terminal drainage, and harvesting works are projected with a unit of ha. In this projection, total area is programmed area, and computed areas are tabulated as shown below.</p> <p style="text-align: center;"><u>Projected Progress of Farming Activities</u></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Week No.</th> <th colspan="4">Programmed Area X (ha)</th> </tr> <tr> <th>Land Soaking (ha)</th> <th>Planting (ha)</th> <th>Rooting (ha)</th> <th>Terminal Drainage (ha)</th> <th>Harvesting (ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>B</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>X - (A+B)</td> <td>A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td>B</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Week No.	Programmed Area X (ha)				Land Soaking (ha)	Planting (ha)	Rooting (ha)	Terminal Drainage (ha)	Harvesting (ha)	1	A					2	B					3	X - (A+B)	A				4		B			
Week No.	Programmed Area X (ha)																																					
	Land Soaking (ha)	Planting (ha)	Rooting (ha)	Terminal Drainage (ha)	Harvesting (ha)																																	
1	A																																					
2	B																																					
3	X - (A+B)	A																																				
4		B																																				

No.	Item	Sheet Name	Form	Description Guidelines																																																												
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td style="text-align: center;">$X - (A+B)$</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">A</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">B</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">$X - (A + B)$</td> <td style="text-align: center;">A</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">B</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">$X - (A + B)$</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">24</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> <p style="margin-left: 20px;">Note : A : Computed first week land soaking area B : Computed second week land soaking area</p>			$X - (A+B)$														A						B						$X - (A + B)$	A						B						$X - (A + B)$							24						Total	X	X	X	X	X
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Total	X	X	X	X	X																																																											
	5.15 Land Soaking Water Delivery Schedule	Main/Water Delivery Schedule	Form 06-2	Weekly base water delivery schedule with a unit of ha for land soaking works is tabulated, based on calculated total land soaking area.																																																												
	B. Wet Season Paddy	Main/Weekly Land Soaking Area		The same computation procedures as those of the dry season paddy mentioned in the above are taken in case of the wet season paddy.																																																												