Table.1-5 PROGRAMMED WATER DISTRIBUTION SCHEDULE (1/6)

	c C		jng	- G	лü	ris	rmal tion	Total
φ	ก็มา	Bloc	Ar ()		Are har	1 (1.1	Area (ha)
1 47 1 47 1 47		LS1	225.1	- - - - - - - - - - - - - - - - - - -	1 	, f 1 1 1 1 1	• • • • •	
	- uns	i	i I I	i	i			225.1
c	Mon Sun		37.		225.1	. •		462.5
រឝ	107		10	LP1 LP2 Total	10000	1 1 1 1 1		1
4 t h	Non. Sun.		2 7	LP1 LP2 LP3-1 LP3-2 LP3-2 Total	000000			י ש
a t h	Mon. Tue.	N N	37.	LP2 LP3-1 Total	237.4 256.1 293.5	1 IN	225.1	56
	Thu. Fri.	S I	37.	1 1 1	6 8 4 6 8 4 6 9 7			م
	sat. Sun.		37.	14				1 • 1
6 t h	Mon. Tue.	ι ώς	246.1	LP3-1	56.1	NI1 N12 Total	225,1 237.4 462.5	64
	The Tro	LS6	246.1	Lp3-2 Lp4-1 Lp5-1 Total	184.5 83.6 206.4 474.5			20.
	Set. Sun.	L'S6	4	1 4 0 0 1 4 0 0 1 1 9	31.			17.
432	Mon. Tue.		231.5	r k F F F F F F F F F F F F F F F F F F	E 3 4 1 1 1 2 2 2 5	NII NI2 NI3-1 Total	225.1 237.4 56.1 518.6	750.1

91538970918918818091860918609183

Table.I-5 PROGRAMMED WATER DISTRIBUTION SCHEDULE (2/6)

1000			N			н	Normal rigation	Total
2 10	5			Block		Blo	Area (ha)	(ha)
4 4	The. The.	LS7	31.5	LP4-1 LP5-1 LP5-1 LP6-1 Total	ເພື່ອທີ່	NI 3-2	184 - 5	i - on
	Sat. Sun.			LP4-2 LP4-2 LP5-2 LP6-2 Total				478.8
с Т Т			0 1 1 0	 			10000 10000	· ·
	Yed. Thu. Fri.		195.8	LP6-1 LP6-1 LP6-1 LP7-1 Total	0.06 86.	່ (ໄ ຊ	4.00	ı •
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	195.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31.4 31.4 76.2 121.0 228.6	N14-2	139.7	564.1
			0 9 1 1 6 6	, 6 6 7 9 9		NI1 NI2 NI3-1 Total	225.1 237.4 56.1	8
	I Q L P	t 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	 	LP6-1 LP7-1 LP8-1 Total	0044	1 1 1 1	4004	
	sur.	1 4 1 2 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	LP6-2 LP6-2 LP7-2 LP8-2 Total	76.2 121.0 174.4 371.6	1 4 10 4	1000-	
loth	Mon.	1 t t 1 1 1	1 1 1 1 1 1 1	• 1 1 1 1 1 1 1	6 9 1 1 1 1 6	NIT NIT NIZ NIZ	225.1 237.4 556.1	

1 - 41

Table.I-5 PROGRAMMRD WATER DISTRIBUTION SCHEDULE (3/6)

Week T	, e L	Land Soak	gui	Jre Pre	atio	No Irrig	ч с	Total
	ר ג ג	Block	È .	lock	Ar Ar	1 %	I A G	Area (ha)
1 2 F H	1 ወደ 4	• 6 1 1 8 8 7	9 6 8 7 9 7 4	1 - 0 +	110.5 21.4 131.9	N13-2 N14-1 N15-1 N15-1 N16-1 Total	284 284 200 200 44 200 24 200 24 200 24 200 24 200 24 200 24 200 200	776.3
1 01 01	Sun.		1 1 7 1	LP7-2 LP8-2 Total	121.0 174.4 295.4	N14-2 N15-2 N16-2 Total	1001-4	542.7
4 X 1 X		5 7 1 1 2 5 7 1 8	- - - - - - - - - - - - - - - - - - -	•	4 9 9 1 3	NI1 NI2 NI2-1 Total	IN 10 10 H	518.6
비교타	Wed. Fri.		8 9 7 1 1	LP8 - 1	23.4	N13-2 N13-2 N15-1 N15-1 N15-1 Total Total	84. 83. 83. 83. 83. 83. 84.	776.3
	un.	F 	- F F 1 1 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.4.1	NI4-12 NI5-2 NI6-2 N17-2 N17-2 Total	000-00	
12th 12th 17th 17th		T 3 8 8 1 1 1 1		3 9 8 4 3	4 8 8 7 7	NII NII NI2 NI3-I Total	225.1 237.4 56.1 518.6	8
13ÊL		 				NH3-2 NH3-2 NH5+1 NH5+1 NH5-1 NH8-1 NH8-1 NH8-1 NH8-1		776.3
လံလာ၊	Sun.]]]]]]]	, ; ; ; ; ;	1 3 7 1 7	- 	00000 11110 11110 11111 11111 11111 11111 11111 11111 1111	139.7 31.4 76.2 121.0	

Table.I-5 PROGRAMMED WATER DISTRIBUTION SCHEDULE (4/6)

Weak	Ja v			Land Preparat		Irriga	rmal ation	Total Area
1			Area (ha)	- 1	ਸ਼ਿਟ	B10	¥⊂.	(ha)
18th	Non. Tue.	1 h . h . f f 1 1	 1 1 1 1 1	N E J J N C T	 	NI2 NI3-1 Total	65.0	293.5
	тра. Брі.				 1 5 1 1 1 1	N13-2 N13-2 N15-1 N15-1 N15-1 N18-1 N18-1 T048-1	14000040	776.3
•	Sun.		l 1 1 1 1	E E 7 1 8 6 8	t 1 1 1 1	N114-2 N15-2 N15-2 N15-2 N17-2 T018-2 T018-2	0-0-40	242
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mon.	1 1 1 1 1 1 1 1 1	t 		1 1 1 1	10		56.1
	Wed. Fri.	· · ·					184 169 169 1169 1169 10 10 10 10 10 10 10 10 10 10 10 10 10	176.3
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0] 	- - - - - - - - - - - - - - - - - - -			NI14-2 NI16-2 NI16-2 NI16-2 NI17-2 NI17-2 NU17-2 NU17-2	1010140	
0th	Mon. Tue.					1		0
	Wed. Thu. Fri.			1 F J J F C C C C C C C C C C C C C C C C		1 - 4 - 1 - 4 - 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2169-94 1169-94 21-4-92 21-4-59 21-4-59	

Table.1-5 PROGRAMMED WATER DISTRIBUTION SCHEDULE (5/6)

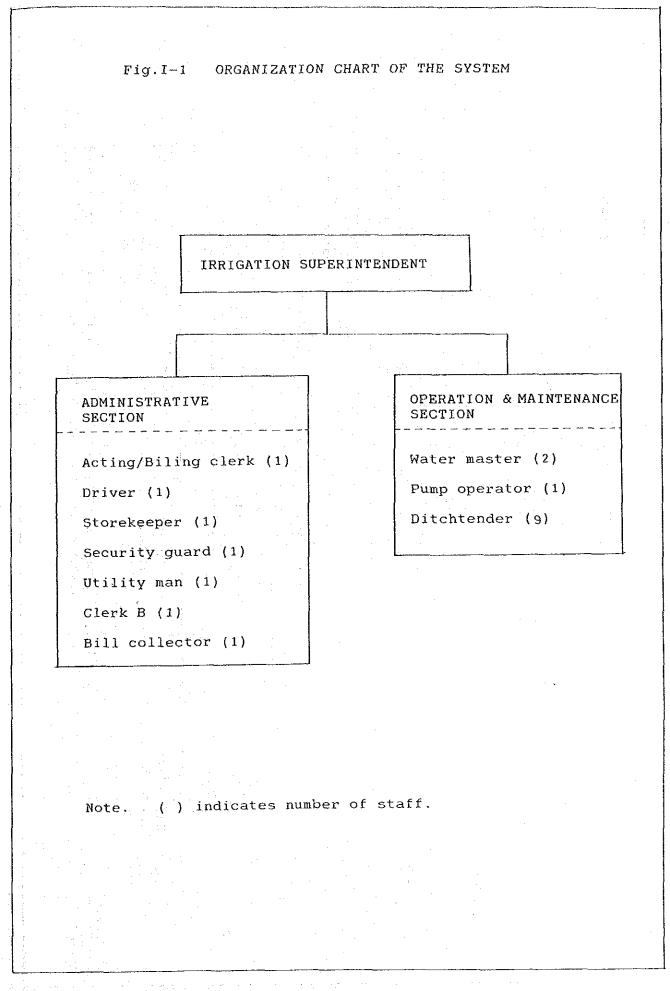
Block Area Block Area Block (ha) (ha) (ha) (ha) (ha) (ha) Oth Sat. NI5-2 31.4 NI5-2 31.4 Sun. Ni5-2 151.2 31.4 Sun. Ni5-1 105.5 31.4 Sun. Ni5-2 151.0 14.4 Tue. Ni7-1 105.5 31.4 Fri. Ni7-1 105.5 31.4 Sat. Ni7-1 105.5 31.4 Sun. Ni7-1 105.5 31.4 Fri. Ni7-1 105.5 31.4 Sat. Ni8-1 201.8 301.8 Fri. Ni8-1 105.5 31.4 Sun. Ni8-1 105.5 31.4 Fri. Ni8-1 10.6 31.4 Sat. Ni8-1 21.4 11.6 Fri. <th>Vool Vool</th> <th>Dav</th> <th>Land Soaking</th> <th>gui</th> <th>Land Preparat</th> <th>d ration</th> <th>2 4</th> <th></th> <th>Total Area</th>	Vool Vool	Dav	Land Soaking	gui	Land Preparat	d ration	2 4		Total Area
Oth Sat. Windows and a set and a se		r S	lock	ъ Чре	lock	Ar Ar	Bloc	Are (ha	(ha
1st Mon. 1st Mon. 1st 2 0.0.0 1st Mon. 1st Mon. 1st 2 542.7 542.7 1st Mon. 1st Mon. 110.5 542.7 542.7 1st Mon. 1st Mon. 110.5 542.7 542.7 1st Mon. 1st 10.5 110.5 542.7 542.7 1st Mon. 1st 10.5 110.5 542.7 542.7 1st Mon. NIE-1 10.5 56.4 1st Mon. NIE-2 76.2 31.4 1st Mon. NIE-2 76.2 76.2 1st Mon. NIE-2 110.5 74.4 1st Mon. NIE-2 121.0 77.4 1st Mon. NIE-2 110.5 76.2 1st Mon. NIE-2 110.5 76.2 1st Mon. NIE-2 174.4 70.4 1st Mon. NIE-2 110.5 76.2 1st Mon. NIE-2 174.4	20th	124	· · ·			4 	1 1 1 1 1 10 0 1 1 10 0	500	
1st Mon. 1st Mon. 1st Mon. 1st Mon. Wed. NIS-1 206.4 10.5 Wed. NIS-1 100.5 508.2 508. Wed. NIS-1 100.5 508.2 508. Fri. NIS-1 100.5 508.2 508. Sat. NIS-1 100.5 76.2 76.2 Sun. NIS-2 110.5 76.2 76.2 Sun. NIS-2 174.4 70.3 403.0 Thu. NIS-2 174.4 70.3 10.5 Wed NIS-1 10.5 11.6 901.8 You NIS-1 10.5 11.4 301.8 301.8 You NIS-1 10.5 NIS-1 10.5 11.4 You NIS-1 10.5 NIS-1 10.5 11.4 You NIS-1 10.5 NIS-1 301.8 301.8 Sun. Sun. NIS-1 10.5 NIS-1 10.5 You NIS-1 NIS-1 10.5 NIS-1 131.4							1 1 1 0 ~ U 1 H H	515	
Ist Mon. Ist Mon. Wedd. NIG-1 206.4 Thu. NIG-1 10.5 Fri. NIG-2 31.4 508. Sat. NIG-2 31.4 508. Sat. NIG-2 31.4 603. Sat. NIG-2 31.4 603. Sat. NIG-2 76.2 76.2 Sat. NIG-2 76.2 76.2 Sat. NIG-2 76.2 76.2 Non. NIG-2 76.2 76.2 Pue. NIG-2 76.2 76.2 Wed. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 Sat. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 You. NIG-1 100.5 77.4 You. NIG-1 1010.5 77.4 <							ota	r 27	42.
Wed. NI5-1 206.4 Thu. NI5-1 10.5 Fri. NI8-1 21.4 508.2 Sat. NI8-1 21.4 508.2 Sat. NI8-1 21.4 508.2 Sat. NI8-2 76.2 708.2 Sat. NI8-2 74.4 403.0 Sat. NI8-2 110.5 74.4 Non. NI8-2 121.0 403.0 Pued. NI8-1 100.5 74.4 You. NI8-1 100.5 74.4 Wed. NI8-1 110.5 74.4 You. NI8-1 110.5 74.4 Sat. NI8-2 77.6 371.6 Sat. NI8-2 774.4 774.4 Sat. NI7-1 110.5 74.4 Sat. NI7-1 121.6 74.4 Sat. NI7-1 131.9 131. Sat. NI7-1 131.9 131. Sat. NI8-2 774.4 764.1 131.9	1 00	Mon Tue	, 1 1 1 1 1	 	, , , , , , , ,	4 1 1 1 5 6	1 	Í 1 1 1 1 1 1 1	
Thu. NIT-1 110.5 508.2 508.2 Sat. NIT-1 110.5 508.2 508.2 Sat. NIE-2 31.4 704.1 100.5 Sat. NIE-2 76.2 714.4 403.0 Yed NIE-2 174.4 403.0 403.0 Yed NIE-2 121.4 110.5 74.4 Yed NIE-1 169.9 901. 901. Yed NIE-1 100.5 74.4 403.0 Yed NIE-1 100.5 74.4 403.0 Yed NIE-1 100.5 74.4 701.8 Yed NIE-1 110.5 74.4 701.8 Sun. NIE-2 77.4 704.1 301.8 301.8 Sun. Sun. NIE-2 774.4 704.1 371.6 371.6 Sun. Sun. NIE-2 774.4 704.1 371.6 371.6 Yed Nie-2 NIE-2 774.4 706.2 371.6 774.6 774.6 774.6 774.6 <td< td=""><td></td><td>Wed</td><td></td><td>t 1 1 1</td><td></td><td></td><td>11</td><td>190</td><td></td></td<>		Wed		t 1 1 1			11	190	
Fri. Sat. Sat. Sat. Sun. MIS-2 31.4 Sun. MIS-2 76.2 NIT-2 121.0 NIS-2 174.4 A03.0 NIS-2 174.4 A03.0 NIS-2 174.4 A03.0 NIS-1 10.5 Pri. Sat. NIS-1 10.5 NIS-1 10.5 NIS-1 10.5 NIS-1 10.5 NIS-1 10.5 NIS-2 174.4 Total 371.6 NIS-2 174.4 Total 371.6 NIS-1 110.5 NIS-2 174.4 Total 371.6 NIS-1 110.5 NIS-1 110.5 NIS-		Thu					10-	69	
Total 508.2 508. Sat. NI5-2 31.4 Sun. NI5-2 174.4 Sun. Total 403.0 403. Tue. NI5-1 100.5 Fri. Total 301.8 301. Sat. NI6-1 100.5 Fri. 21.4 NI6-2 76.2 Sun. NI6-2 174.4 Total 371.6 371.6 NI7-1 110.5 NI7-1 110.5 NI7-1 110.5 NI7-1 110.5 NI7-1 110.5 NI7-1 110.5 NI7-1 110.5 NI7-2 121.0 Sat. NI7-1 110.5 NI7-2 121.0 Sat. NI7-2 121.0 Sat. NI7-2 121.0 Sat. NI7-2 121.0 Sat. NI7-2 121.0 Sat. NI7-2 121.0 Sat. NI7-2 121.0		Hri.	÷				17- 18-	21.	
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Sun. NIG-2 76.2 NIG-2 121.0 NIG-2 121.0 NIG-2 121.0 NIG-1 403.0 403. Thu. Thu. Thu. Thu. Thu. Thu. Thu. Sat. NIG-1 169.9 NIG-1 169.9 NIG-1 169.9 NIG-1 169.9 NIG-2 76.2 NIG-2 76		9		1 		F F F 1		31	1
Znd Mon. Total 403.0 403. Tue. Total 403.0 403. Tue. NIS-1 10.5 Thu. NIS-2 76.2 Sat. NIS-2 76.2 Sun. NIS-2 77.6 Tue. NIS-2 174.4 Tue. NIS-1 110.5 Med. NIS-1 110.5 Yed. NIS-1 131.9 Tue. NIS-1 131.9 Sun. Sat. NIS-2 131.9 Sun. NIS-2 131.9 131. Sun. NIS-2 131.9 131. Sun. NIS-2 131.9 131. <td></td> <td>Sun.</td> <td></td> <td></td> <td></td> <td></td> <td>16- 176-</td> <td>21.</td> <td></td>		Sun.					16- 176-	21.	
Znd Mon. Tue. NIF-1 169.9 Thu. NIT-1 110.5 76.2 Fri. NIT-1 201.8 301. Fri. NIT-1 210.5 301. Sat. NIT-2 211.0 301. Sat. NIT-2 121.0 371.5 371. Sat. NIT-2 121.0 371.5 371. Stat. NIT-2 121.0 371.5 371. Stat. NIT-2 121.0 131.9 131. Frei. NIT-2 121.4 131.9 131. Sat. NIT-2 121.0 131.9 131. Sat. NIT-2 121.0 131.9 131. Sat. NIT-2 131.9 131.9 131.9 Sat. NIT-2							ан 1924 1925	40	03
2nd Mon. Tue. Wed. Write. Thu. Wils-1 Fri. Fri. Fri. Fri. Sat. NIF-2 Sat. NIF-2 Sat. NIF-2 Sat. NIF-2 Sat. NIF-2 Sat. NIF-2 Sat. Sat. Sat. Sun. Sat. Sat. Sat. NIF-2 Tue. NIF-2 Fri. NIF-1 Sat. NIF-1 Sat. NIF-2 Sun. Sat. Sat. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>51</td> <td></td> <td>• [> [> [</td>							51		• [> [> [
Wed. NIT-1 110.5 Thu. NIT-1 110.5 Fri. NIT-1 21.4 Sat. NIT-2 21.4 Sat. NIT-2 121.0 Sat. NIT-2 121.0 Sun. NIT-2 121.0 Stat. NIT-2 121.0 Stat. NIT-1 10.5 Yue. NIT-1 110.5 Wed. NIT-1 110.5 Yue. NIT-1 110.5 Sat. NIT-2 121.0 Sat. NIT-2 121.0 Sat. NIT-2 131.9 Sat. NIT-2 131.9 Sat. NIT-2 131.9	22nd	Mon					i		
Tru., MIG-2 F1.2.4 Sat. NIG-2 76.2 Sun. NIG-2 714.4 Total 377.6 371.5 Total 377.6 171.4 Total 377.6 171.4 Total 377.6 131.9 Total 131.9 131.4 Fru. NIT7-1 100.5 Sat. NIT7-1 131.9 Sat. NIT7-1 121.4		Wed.						69.	
Total 301.8 301. Sat. NIG-2 76.2 Sun. NIG-2 76.2 Sun. NIG-2 76.2 NIG-2 76.2 NIG-2 76.2 714.4 704al 371.6 371. 714.4 704al 371.6 371. 714.7		Thu.					1 2 2	2.5	
Sat. Sat. Sun. NIG-2 76.2 NIG-2 174.4 Total 371.6 371. Total 371.6 371. NIG-2 174.4 Total 371.6 371. 371.6 371. NIG-1 110.5 NIG-1 110.5 NIG-1 131.9 131. Sat. NIG-2 121.0 Sat. NIG-2 121.0 Sat. 25.		• •					0.18 0.18	01.	01
Sun. NI7-2 121.0 NI8-2 174.4 Total 371.5 371. 70tal 371.5 371. 70tal 371.5 371. 70tal 371.5 371. 714.4 Fri. 70tal 110.5 NI7-2 121.0 Sat. NI8-2 174.4 295.		د i ه i	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	• • • • • •	6 	 	191	76.	1
3rd Mon. 77.6 371.6 371.6 3rd Mon. 70.6 371.6 371.6 7ue. NIT 7-1 110.5 110.5 Wed. NIT 9-1 21.4 131.9 Fri. Total 131.9 131.9 Sat. NIT 8-2 121.4 131.9 Sat. NIT 8-2 121.4 295.4 Sat. Total 295.4 295.4		un					1.0	12	
3rd Mon. Tue. NI7-1 110.5 Ned. NI8-1 131.9 131. Fri. Sat. NI7-2 121.0 Sat. NI7-2 121.0 Sat. 255.25							0 4 1 0 4 9 1		71
Tue. Ned. Ned. Nig-1 110.5 Nig-1 21.4 Total 131.9 131. Sat. Nig-2 121.0 Sat. Nig-2 121.0 Sat. 295.4 295.	10	Mon.		• • • • •	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		i –	 	i i
ed. NI8-1 110.5 NI8-1 21.4 Total 131.9 131. NI7-2 121.0 NI7-2 171.0 NI8-2 174 295.4 295.		Tue.							1
hu. NI8-1 21.4 ri. Total 131.9 131. 		Wed.					13-	:	
rotal 131.9 [3].		л с Е					-8 . 1 8 -	21.	5
at. N17-2 121.0 N18-2 174.4 Total 295.4 295.				1		1 1 1 1	049		i i
un. NI8-2 174.4 Total 295.4 295.		Sat.					17-	21	
		sun.					18- 0ta	9.4	95

Table.1-5 PROGRAMMED WATER DISTRIBUTION SCHEDULE (\$/6)

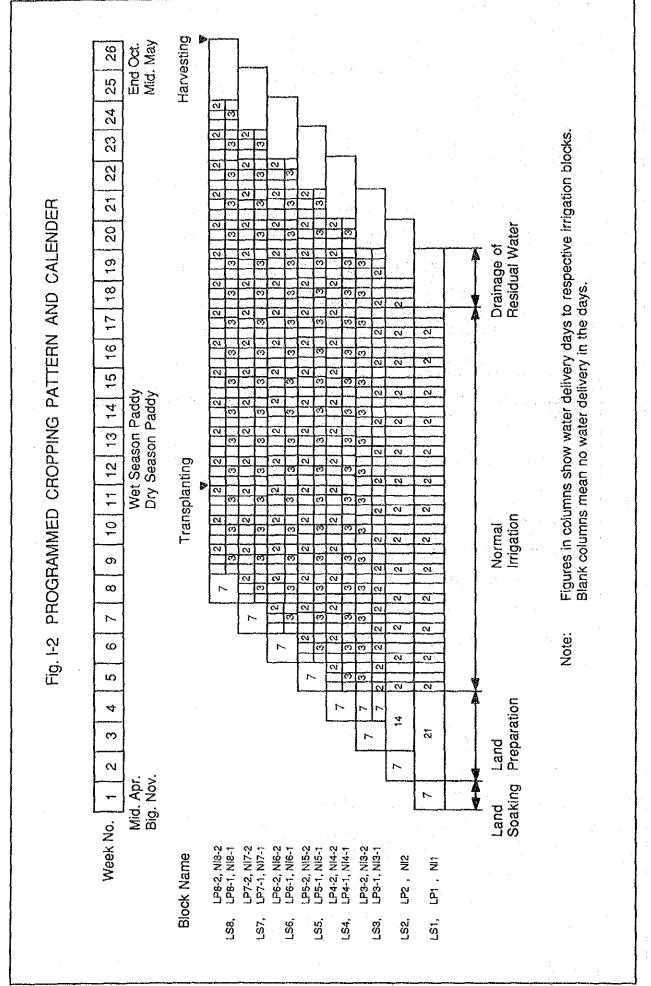
1	. :	Land Soaking	ing.	Land Prepar	Land Preparation	Normal Irrigation	Normal igation	Total
меен иру	Yeu	Block Area (ha.)	Area (ha)	Block Area (ha)	Block Area (ha)		Block Area (ha)	Area (ha)
4 t h	24th Mon. Tue.		: ; ; ; ; ;	 				0
	Thu.		1	1 1 1 1 1		NI8-1	21.4	
	Set.			· 1		NI8-2 174.4	174.4	174.4

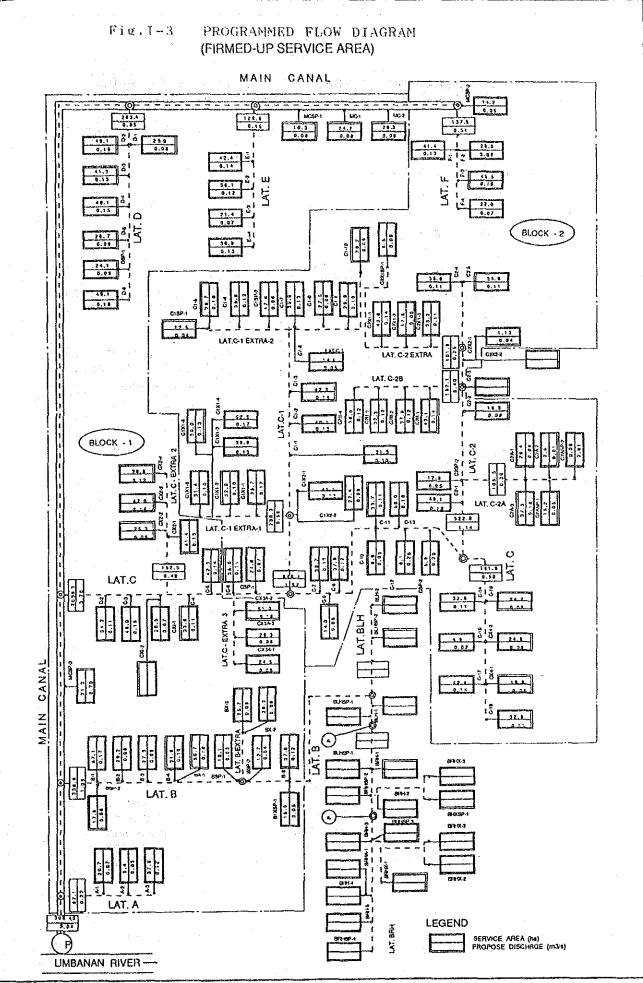
Note. This proposed distribution schedule was established after confirming that peak diversion water requirements at the pump station and respective headgates had become as small as possible with trial and error of preparation of several alternative water distribution schedules.

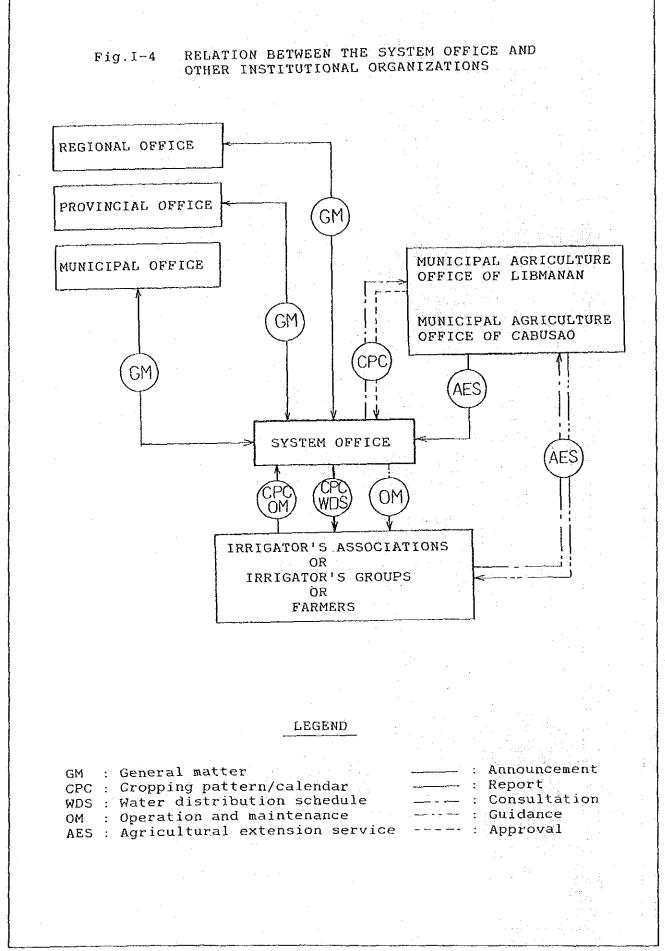
Grop Water Crop Water Unit Gross guency [J/s/ha] uency [J/s/ha] bys [J/s/ha] Days [J/s/ha] Coefficient [J/s/ha] Dass [J/s/ha] Season [J/s/sason (1) (2) (3) (1) (2) (3) sould and season [J/s/sason T 3.50 [J/s/sason T 0.93 0.83 [J/s] T 0.93 0.83 [J/s] T 0.93 2.02 3.05 S 1.17 1.3



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Form-I.2.a CALCULATION FOR IRRIGATION SUSPENSION IN BLOCK	Irrigation block : Irrigation stage : LS / LP / NI Irrigation days per week : day/s (Unit:days)	Mon. Tue. Wed. Thu. Fri. Sat. Sun.	ansferred water from 1	Delivered water by irrigation { { { { } } { } { } { } { } { } { } {	infall (I FA	alance of water in	Remaining requirement in week 1 1 1 1 1 1	emaining requirement is less han one day delivery ?	Transferred water to next week	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	INSTRUCTIONS		IN / JT / ST	lays per week : A day/s (Unit:	Mon. Tue. Wed. Thu. Fri. Sat. Sun.	ansferred water from last week! B	elivered wat	ainfall (mm)	responding days to ra	ance of water in block	aining requirement in	Remaining requirement is less G	ferred wate	where, $C=7/A$, $E=B+C+D$, $F=7-E$, $H=C$ or 0, $I=E+H$, $J=I-7$ if F/C then $G=Y$ (irrigation can be suspended in the week) if F/C then $G=Y$ (irrigation cannot be suspended)	
	19 Day Date Rainfall (mm)		Tue.	¥ed	Tbu	₽₹₽.₽ 	Sat	Sun. · · ·	Sub-total 		. Date Rainfall (m	Mon	Tue	Ked. []	Thu: ! !	11411-124444444444444444444444444444444	Sat.	Sun. ! !	Sub-total	17.000000000000000000000000000000000000		Day Date Rainfall (mm)	Frá	Sun. 1	Sub-total	
Form-I.1 RAINFALL RECORD	for the Month of Day Date Rainfall (nm)	on. 1. 1.	Tue. .	Wed. 1 1	Thu.		Sat. ! !	Sun.	Sub-total		ay Date Rainfall (mm	 		Wed.	Thu. 1		Sat. : :	Sun. ! :	sub-total		* 2 8 8 7 7 7 7 7 1 1 2 2 8 9 9 4 8 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Day Date Rainfall (mm)	Mon. 	Xied.	Thu	

Total ------

Dive	Diversion Requirement (m3/s)	
, , , , , , , , , , , , , , , , , , ,		,
Week No.	Date: ,19	Week No.
Form-1.2.b DIVERSION WATER REQUIR	WATER REQUIREMENT IN SUSPENSION WEEK (1/2)	Form-I.2.b DIVERSION WATE

Name	Command	We	Wet Season	on or		Dry Season	on
of	Area						3 1 1 1 1
Headgate	(ha)	Mon. Wed. Sat.	Wed.	Sat.	Mon.	Mon. Wed. Sat,	Sat,
			Thu.			Thu.	
		Tue.	Fri.	Sun.	Tue.	Fri.	Sun.

Pump Station

Maîn Canal HG-Lat.B Lat.B

Main HG-Lat.C Lat.C

Main HG-Lat.D Lat.D Main HG-Lat.E

Lat.E

Main HG-Lat.F Lat.F

I

Main

50 --

Lat B Canal

HG-Lat.B-Ext. Lat.B-Ext. Lat.B

Lat.C Canal

HG-Lat.C-Ext.2 Lat.C-Ext.2 HG-Lat.C-Ext.3 HG-Lat.C-Ext.3 Lat.C-Ext.3 Lat.C HG-Lat.C-Ext.1 Lat.C-Ext.1 Lat.C

HG-Lat.C-1 Lat.C-1

Lat.C

HG-Lat.C-2 Lat.C-2 Lat.C

Lat.C-1 Canal HG-Lat.C-1-Ext.1 Lat.C1-Ext.1 211.5 Lat.C-1

REQUIREMENT IN SUSPENSION WEEK (2/2)

Mon. Wed. Sat. Tue. Fri. Sun. 1.4.4.1. , 19 The gross field requirement shall be calculated multiplying cropping acreage(ha.) in commanding area of the turnout by unit gross field requirement(1/s/ha) shown in Table.1-6. - Diversion discharges at the pump station and headgates shall be calculated by formulas shown in Table.I-7 using gross field requirements at turnouts concerned. Dry Season ******** rersion Requirement (m3/s) rhu. Date: or o ļ Mon. Wed. Sat. Tue. Fri. Sun. Wet Season Area Thu, ***** Command (ha) Lat.C-2 Canal HG-Lat.C-2A Lat.C-2 HG-Lat.C-2B INSTRUCTIONS Lat C-2A Lat. C-2B Headgate Lat.C-2 Name o f ŧ

Form-I.3.a SIGN BOARD ON WATER DISTRIBUTION SCHEDULE AT HEADGATE

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Form-I.3.b SIGN BOARD ON WATER DISTRIBUTION SCHEDULE AT TURNOUT

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Form-1.4.a.(1/2)

Irrigation System: ______ Season: ______Year: _____

SYSTEM'S SUMMARY OF CROP AREA-GRONTH STAGE INFORMATION RECORDS As of Week No.

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Ratermaster

Irrigation Superintendent

Form-1.4.a.(2/2)

Irrigation System ______ Season: ______Year: ____

SYSTEM'S SUMMARY OF CROP AREA-GROWTH STAGE INFORMATION RECORDS

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Watermaster

Trrigation Superintendent

Form-1.4,b

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WM Section: _____Year; ____ Season:

SUMMARY OF CROP AREA-GROWTH STAGE INFORMATION RECORDS

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Prepared and Submitted by:

Watermaster

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Ditchtender

Watermaster

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Form-1.5.a

Irrigation System: Season: Year:

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SYSTEM'S IRRIGATION OPERATION SUMMARY REPORT

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under reproductive growth stage. Prepared by: Check

Checked and Submitted by:

Watermaster

<u>\</u>_____

Irrigation Superintendent

Form-I.5.b

SWMT/SWM Section: Season Year:

WM IRRIGATION OPERATION WEEKLY SUMMARY REPORT Week No. ____, Date: _____ to ____, 19

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Prepared and Submitted by:

Checked by:

Watermaster

Irrigation Superintendent

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Prepared and Submitted by: Checked by:

Ditchtender

Watermaster

Prepared and Submitted by: b. Other relevant informations: (Please use back of this sheet). FARM-LEVEL IRRIGNTION OPERATION REPORT Week No. Date: 19 HJ. Rotation Area Section: ROTATION AREA, Ditchtender .. •• ٠ 5 ċ. •• normal irrig.: • DISCHARGE, li/sec GRAND TOTAL (a+b) AVERAGE TURITOUT AVERAGE WATER DUTY li/sec-ha. land soaking a. land prep'n AREA: a. Under To be (a) b. landsoaked SUB-TOTAL (b) Form-1.5.e SUB-TOTAL fallow à a. Data: <u>(c/a)</u> K ē σ ų. 1 Proj. Eva-potranspi-ration.mm. VCS : RGS REMARKS Section Served: DAILY DISCHARGE FLOW AND HYDROMETEOROLOGICAL OBSERVATION DATA REPORT Watermaster ÷. DISCHARGE FLOM: JULTROUL OF ROL. AFEA:AVE. DISCHARG Headgate : or Sec. : li/sec. RGS - Reproductive Growth Stage , 19 checked by: Hydromet : Days Average, mm. Stat. Code:Evaporation : Rainfall VGS - Vegetative Growth Stage 0 U HYDROMETEOROLOGICAL DATA: Served has week No. Ditchtender Date: Prepared by: Code Form-1.5.d ۱ ц. Å

Form-1.5.f

for Parshall Fluine

Section/Rotation Area Served; ______ Station; ______ Flume Size; ______

DISCHARGE FLOW RECORDS

for Week Nos. ____ to ____, Date: _____, 19___

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Prepared by:

Ratermaster

Checked and Submitted by:

Ditchtender

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I - 59

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Form-I.5.g

for Double-Gated Turnout Notation Area Served: ______ Station: ______ Orifice Size: _____

DISCHARGE FLOW RECORDS

for Week No. _____ to ____, Date: _____ , 19 :Equivalent Dis-:Days Ave. Gate Opening Head in -2 :charge, li/sec.:Discharge* Date : Day : in cm. : cm. PM :li/sec. PM: ΛM: PM: ΛM:. AM : -----1 ; : : : : : Mon : į. : : : : Tue : : : 1 : \$: Wed : : : 1 : : : Thu : : : : : ÷ 1 : ; : : : Fri : : : 1 1 1 : Sat : : : : : 2 • : Sun : . WEEK AMALYSIS OF DISCHARGES AVERAGE <u>.</u> WEEK NO. : : : : Mon : • : : : . : : : : : : Tue : : Wed : : : \$: \$: : Thu : : : : : : ; : : : Fri : : : :____ \$; : 3 : : : Sat : : : : : : Sun : : . • WEEK ANALYSIS OF DISCHARGES AVERAGE WEEK NO. : • : Mon : : : : : :... : • : Tue : : : ; : :__ Wed : : : ; 2 : 4 : : Thu : 5 : : .: 3 : Fri : : : : : : : : Sat : : : : : 9 1 : Sun : : : WEEK NO. WEEK AMALYSIS OF DISCHARGES AVERAGE : : • : : Mon : : : . 3 : Tue : : : : 2 : : : Wed : : : : : : : : Thu : : ļ • : ٠ ŝ : Fri : : : : 1 : : : Sat : ; : : : : : : Sun : ÷ : 3 **:** · WEEK NO. _: WEEK AMALYSIS OF DISCHARGES AVERAGE

Prepared by:

Checked and Submitted by:

Ditchtender

Watermaster

Form-I.5, h

For Calibrated Staff Gage Section/Rotation Area Served____

Station: Latest Calibration Date: DISCHARGE FLOW RECORDS for Week Nos. _____ to _____ Date: _____, 19 _____ Observed Gage : Equivalent Dis-:Days Average: . : charge, li/sec. 4: 7M : P sec. : Discharge : REMARKS PM : li/sec. : Date : Day : Height, cm. мM: PM: : Mon : : : : : : . : 1 . : : : Tue : : : : = : : Wed : : : : ; : : Thu : : : : 2 : Fri : : : : : ; : Sat : 2 • : : Sun : WEEK NO. : WEEK ANALYSIS OF DISCHARGE AVERAGE ; : : : : : : Mon : : . : : : : : Tue : : ' 2 : : : : Wed : : : : : : Thu : : <u>t</u>_ : : : 2 : Fri : : : : : : : Sat : • : Sun : : WEEK NO. : WEEK ANALYSIS OF DISCHARGE AVERAGE : 1 : 2 : : Mon : **:** : : : : Tue : : 2 ŧ : : : : Wed : : ÷ : : Thu : 11 : 1 : Fri : : : : : 2 : Sat : . : : Sun : : WEEK NO. : WEEK AMALYSIS OF LISCHARGE AVERAGE : : ; • : : : Mon : : : : 2 :__ : Tue : · :___ : : : : : Wed : : Thu : : . . : : : : : : 2 <u>: Fri :</u> : : Ξ. : <u>Sat</u> :

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Watermaster

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Form-1.6 MAINTENANCE RECORD

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PART - 2 MANUAL FOR OPERATION AND MAINTENANCE OF ON-FARM IRRIGATION AND DRAINAGE SYSTEMS

CHAPTER - 1 GENERAL PROVISIONS

Article - 1

These provisions provided hereunder shall be applied for operation and maintenance of on-farm irrigation and drainage facilities in respective rotation areas of the Libmanan-Cabusao Pump Irrigation System.

- Irrigation Facilities
- Main farm ditches Farm ditches

Canal related structures

- Drainage Facilities

Main farm drains Farm drains

Canal related structures

Article	 2	
÷		

Water delivery to a rotation area shall be made for the rotation days determined in the water distribution schedule at system level.

Article - 3

Distribution method of irrigation water at on-farm level in a rotation area commanded by a turnout shall be decided by farmers or irrigator's associations themselves.

Article - 4

Starting the irrigation water delivery to a rotation area shall be announced to farmers or irrigator's association in the area by the O&M Section in the System Office at least one week before the scheduled date of starting the water delivery. On-farm irrigation and drainage facilities

Water delivery to a rotation area

Distribution method of on-farm level

Announcement of irrigation water delivery

CHAPTER - 2 OF

ORGANIZATION

Article - 5

Farmers or irrigator's association in a rotation area shall be in charge of operation and maintenance for on-farm facilities such as farm ditches, farm drains and their related structures.

- In a rotation area before turned over, a leader of farmers in the rotation area shall be responsible for the operation and maintenance.
- (2) In a rotation area after turned over, a leader of the irrigator's association or a leader of the irrigator's group/compact farms shall be responsible for the operation and maintenance.

Article - 6

Farmers or irrigator's association in a rotation area shall be in charge of the irrigated farming practices such as seeding, fertilizing, cultivating and disease control under the guidance of the municipal agriculture office in Libmanan or Cabusao.

- (1) In a rotation area before establishment of irrigator's association, a leader of farmers in the rotation area shall be responsible for the agricultural extension services.
- (2) In a rotation area after establishment of irrigator's association, a leader of the irrigator's association or a leader of the irrigator's group/compact farms shall be responsible for the agricultural extension services.

Organization responsible for on-farm facilities

Organization responsible for agricultural extension services

CHAPTER - 3	OPERATION OF ON-FARM IRRIGATION	
Article - 7	Water source is the Libmanan river and the irrigation water shall be conveyed to each turnout commanding a rotation area through the pump station, main, lateral & sublateral canals in	Water distribution to a rotation area
	accordance with the water distribution schedule prepared by the O&M Section in the System Office. Such distribution schedule is prepared on the weekly basis.	
Article - 8	Water conveyed to a turnout commanding a rotation area is delivered to each farm plot through on-farm irrigation facilities such as farm ditches and	Delivery of water to each farm plot
	division boxes, etc.	
an a		
Article - 9	Water conveyed to outlets to respective farm plots shall be delivered in	Water depth control at farm
	accordance basically with the principles for water depth control at plot level. As a principle, the water depth control	plot level
	at each plot level shall be conducted as explained below:	
	- During land preparation 2-7 cm - After transplanting 3-5 cm - Tillering stage 2-3 cm	
	- Tillering stage2-3 cm- Maximum tillering stage0 cm- Panicle formation stage5-7 cm- Heading stage2-3 cm	
	- Ripening stage 0 cm	
Article - 10	Operation of on-farm facilities in a	Operation of on-
· · · ·	rotation area shall be performed as follows:	farm irrigation facilities
	(1) In a rotation area where the	
	simultaneous distribution of	
•	irrigation water at on-farm level	
	is adopted, such canal related facilities as division box, outlet for farm plot, etc. shall be	
·	operated only when adjustment of flow condition is required in order	
	to make even distribution of water. After such adjustment is made and	

After such adjustment is made and even distribution condition is

attained, the facilities can be left without any operation until next adjustment required.

When water is delivered to a turnout commanding a rotation area in the scheduled rotation days, the water is automatically distributed to each farm plot through the onfarm facilities having been adjusted.

(2) In a rotation area where the rotational distribution of irrigation water at on-farm level is adopted, such facilities as division box, outlet to farm plot, etc. shall be operated according to the distribution schedule for the rotation area which shall be prepared by farmers or irrigator's association concerned to the area.

Article - 11

During operation , if it rains in a day, or rains for two or more days, the pump operation shall be stopped according to the daily suspension schedule of irrigation, and then water delivery to turnouts will be automatically stopped. So, the on-farm irrigation facilities can be left without any specific operation regardless of the rain.

Suspension of water delivery

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CHAPTER - 4 PREPARATION AND EXECUTION OF ON-FARM WATER DELIVERY SCHEDULE

Article - 12

Cropping pattern and calendar for each rotation area shall be a part of and be consistent with the programmed cropping pattern and calendar at system level, which shall be prepared by the O&M Section in the System Office and be approved by the municipal agriculture offices in Libmanan and Cabusao.

Article - 13

The on-farm water distribution schedule shall be prepared by farmers or irrigator's association in each rotation area based on the cropping pattern and calendar for the rotation area, taking account of the water delivery days to the turnout commanding the rotation area as well as the water distribution method at on-farm level adopted by the farmers or the irrigator's association in the area. The on-farm water distribution schedule consists of the following:

a. Table showing the irrigation stage, water delivery day/days, irrigation area (farm plots), and discharges in/at all the on-farm canals such as a main farm ditch and farm ditches, and structures such as division boxes, outlets to respective farm plots.

b. Flow diagram showing a schematic layout of on-farm irrigation canal system and all farm plots on which the data prepared in the above table also are presented.

Necessary numbers or sheets of the table and the flow diagram to be prepared are the same as changing times of water distribution conditions such as irrigation stage and combination of water delivery day/days and irrigation area.

Samples of the table and the flow diagram are shown in Table II.1 and Fig. II.1 respectively.

Article - 14

Execution of water distribution in a rotation area shall be performed by farmers or irrigator's association in accordance with the on-farm water distribution schedule.

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Execution of onfarm water distribution schedule

Programmed cropping pattern and calendar for a rotation area

On-farm water distribution schedule

- A leader of farmers or irrigator's association in a rotation area shall be informed by a ditch tender of the arrival of water to a turnout commanding the rotation area.
- (2) A leader of farmers or irrigator's association in a rotation area shall operate division boxes in a main farm ditch.
- (3) Member of farmers in an on-farm irrigation block consisting of certain numbers of farm plots shall be informed by the leader of farmers or irrigator's association of the arrival of water to a division box commanding the on-farm irrigation block.
- (4) Member of farmers in an on-farm irrigation block shall operate their respective outlets to farm plot in a farm ditch.

Article - 15

A leader of farmers or irrigator's association shall inspect a main farm ditch and farm ditches in a rotation area. The leader shall be informed by members of farmers in respective on-farm irrigation blocks of the water delivery situation on their land. The leader shall take necessary measures if situation goes wrong, and shall report to a ditch tender in the O&M Section of the System Office of the water delivery situation in his rotation area.

Inspection and report of water delivery situation in a rotation area

Chapter - 5 OPERATION OF ON-FARM DRAINAGE

Article - 16 Drainage systems covering a rotation area are gravity ones. Excess water will be drained automatically without any artificial operation.

Article - 17

On-farm drainage facilities shall be inspected and maintained, by member of farmers or irrigator's association, always in good condition so as to keep their functions. Any kind of object which obstructs the water flow in farm drains and their related structures shall be removed by the member immediately after the inspection. Automatic operation

Inspection and maintenance of on-farm drainage facilities

Chapter - 6 REPAIR AND MAINTENANCE OF ON-FARM FACILITIES

Article - 18

Repair and maintenance of on-farm irrigation and drainage facilities in a rotation area shall be made by farmers or irrigator's association in the area. The O&M Section in the System Office shall assist the farmers or irrigator's association in the repair and maintenance as occasion demands.

Article - 19

Repair and maintenance works are classified into (a) on-the-spot repair, (b) routine maintenance and (c) special annual maintenance.

- a. On-the-spot repair shall mean immediate repair of canals and structures which result in obstruction of irrigation and drainage water flows.
- b. Routine maintenance shall mean dayto-day maintenance of canals and structures to keep them always in workable condition. The maintenance works shall comprise cutting grasses, removal of silt and debris, filling in ruts and holes of canal bank, repair to any minor bank scour and erosion, greasing and oiling of mechanical equipment and gates, restoration of gravel metalling for service road if any.
- c. Special annual maintenance shall mean maintenance of irrigation and drainage canals and structures which cannot be undertaken as the routine maintenance. Such special annual maintenance shall be executed when canals and structures are not needed for irrigation and drainage. As a principle, special annual maintenance shall be executed twice a year during the following periods:
 - In the month prior to land soaking for dry season paddy.
- In the month prior to land soaking for wet season paddy.
 In special annual maintenance, particular attention shall be paid to scouring at downstream bed and bank of diversion and drop structures, nude silt deposits in canals and structures, replacement of stoplogs and gates lost or stolen, painting of timber and steel gate and etc.

Organization responsible for repair and maintenance of on-farm facilities

Classification of repair and maintenance works

Chapter - 7 IRRIGATED AGRICULTURE

Article - 20 The cropping pattern and calendar at system level shall be prepared by the O&M Section in the System Office and be approved by the municipal agriculture offices in Libmanan and Cabusao. Cropping pattern and calendar for each rotation area shall be a part of those at system level, and be informed by the O&M Section to farmers or irrigator's association in the rotation area after the approval of the municipal agriculture office.

Article - 21

The cropping pattern and calendar for each rotation area informed by the O&M Section shall be executed by farmers or irrigator's association in the rotation area. In execution, such cropping pattern and calendar shall be strictly followed by farmers so as to save trouble for repreparation of water distribution schedule. If the proposed cropping pattern and calendar will not be followed, the O&M Section shall modify the proposed ones according to the changed planting date and acreage of paddy. It will take considerable much time to update the water distribution schedule.

Cropping pattern and calendar for each rotation area

Execution of cropping pattern and calendar for each rotation area

Article - 22

Agricultural extension services regarding seed, fertilizer, cultural method and disease control shall be made to farmers or irrigator's association in a rotation area directly by the municipal agriculture office in Libmanan or Cabusao. Agricultural extension services to farmers in a rotation area

Chapter - 8 MONITORING AND REPORTING

Article - 23

Actual cropping calendar and acreage of paddy planted to land in a rotation area shall be surveyed weekly by member of farmers or irrigator's association in the area, and the result of the survey shall be reported to the O&M Section in the System Office. Form II.1 shall be used.

Article - 24

After the harvest, the yield and production of paddy shall be surveyed by member of farmers or irrigator's association in a rotation area, and the result of the survey shall be reported to the O&M Section in the System Office. Form II.1 shall be used.

Article - 25

Discharge of canals shall be measured Discharge daily at division boxes by member of farm is farmers or irrigator's association in a canals rotation area, and the result shall be reported to the O&M Section in the System Office once for every month by the 10th of next month. Form II.2 shall be used.

Article - 26

Operation and maintenance records, including all the operation and maintenance activities, shall be compiled by member of farmers or irrigator's association in the rotation area at each end of month, and be reported to the O&M Section in the System Office by the 10th of next month. Form II.3 shall be used.

Article - 27

All the records and reports shall be copied, and one complete set of the copies shall be always kept by a leader of farmers or irrigator's association in the rotation area with systematic filing method. Actual cropping calendar and acreage

Yield and production

Discharge in onfarm irrigation canals

> Operation and maintenance records

Keeping records and reports

Chapter - V	OTHER PROVISIONS	
Outpuce of	OTAMA ENOVEDEDAD	
		·
Article - 28	Violation or disobeyance to the	Violation of
and the second second	predetermined cropping schedule shall be	cropping schedule
and the second	strictly forbidden.	* * -7
and the second second	The second se Second second s Second second seco	
an in the deal of the set of the		
Article - 29	Violation of the pre-determined water	Violation of
· · · · ·	distribution schedule or stealing water	water
	shall be strictly forbidden.	distribution
and the second sec		schedule
Article - 30	Private installation of division box or	Private
	outlet to farm plot shall be strictly	installation of
	forbidden. When a necessity will arise	diversion
	to install some diversion apparatus in	apparatus
	on-farm canals, prior approval shall be	
	obtained from a leader of farmers or	
	irrigator's association in the rotation	
- 	area.	
Article - 31	Re-modeling of on-farm canals and	Re-modeling of
ALCICIE - JI	structures shall be strictly forbidden,	canals and
	unless prior approval is given by a	structures
	leader of farmers or irrigator's	beruccurob
	association.	· ·
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Article - 32	Water buffalo or other animals shall not	Obstruction of
	be allowed to enter into canals.	water buffalo
		atta a
Article - 33	Private vehicles and public	Limited use of
and the state of the second	transportation shall be forbidden to use	on-farm service
	on-farm service roads, unless prior	roads
	approval is obtained from a leader of	•
	farmers or irrigator's association.	
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		· · · · · · · · · · · · · · · · · · ·
Article - 34	Private use of the berm and outer side	No use of canal
· · ·	slopes of canals for cultivation shall	banks for
	be strictly forbidden.	cultivation
	•	· · ·
And the second	that hand and to account the case for	Unattendance to
Article - 35	Unattendance to cooperative works for operation and maintenance of on-farm	cooperative work
	canals and structures without any	CONPUTACIAC MOIN
	particular reasons shall be forbidden.	
$\sum_{i=1}^{n-1} \sum_{j \in \mathcal{I}} f_{ij} \leq 1 + i \leq n \leq$	pareneurar reasons share be recorded.	1
Article - 36	Unattendance to meetings/activities for	Unattendance to
WTCTCTC - 20	operation of a rotation area without any	meetings/activit:
and the second sec	particular reasons shall be forbidden.	es
ale v setter		
	and the second secon	
	Sanctions for each of the above cases	Conchiona
Article - 37	Sanctions for each of the above cases	Sanctions

Table II-1 SAMPLE OF ON-FARM WATER DISTRIBUTION SCHEDULE

Week	Dry	Land Soaking	Land Preparation	Normal Irrigation
5th	Mon.	Block-1		$f_{i,j} = g_{i,j} g_{i,j} g_{i,j} + g_{i,j}$
	Sun.	Block-2 Block-3		
6th	Wed.		Block-1	
1	Thu.		Block-2	
8th	Fri.		Block-3	
9th	Wed.			Block-1
Ĩ	Thu.			Block-2
21st	Fri.			Block-3

(1) Rotation area where simultaneous distribution is adopted

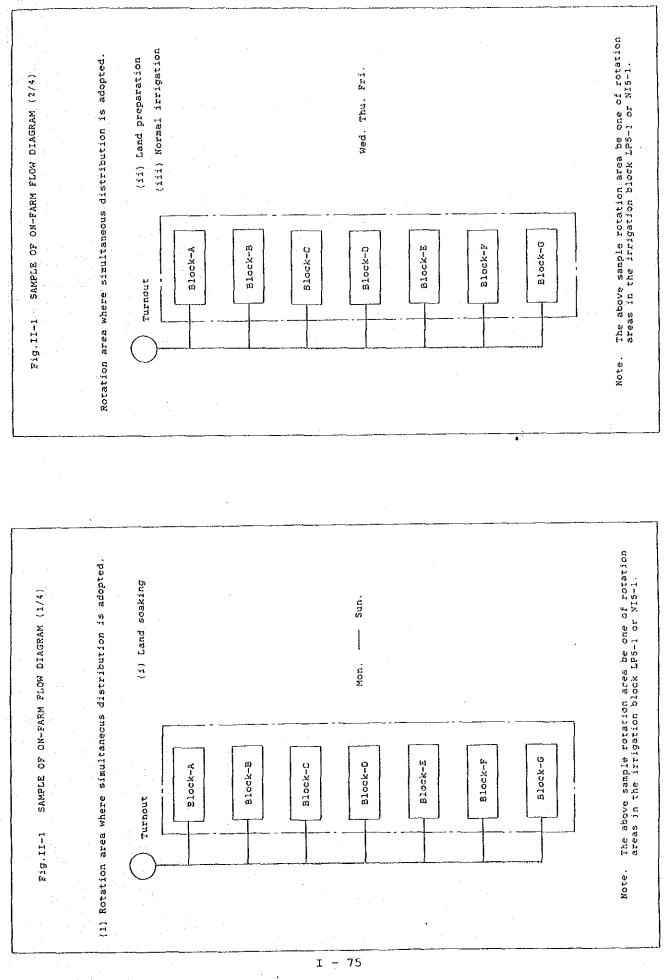
(2) Rotation area where rotational distribution is adopted

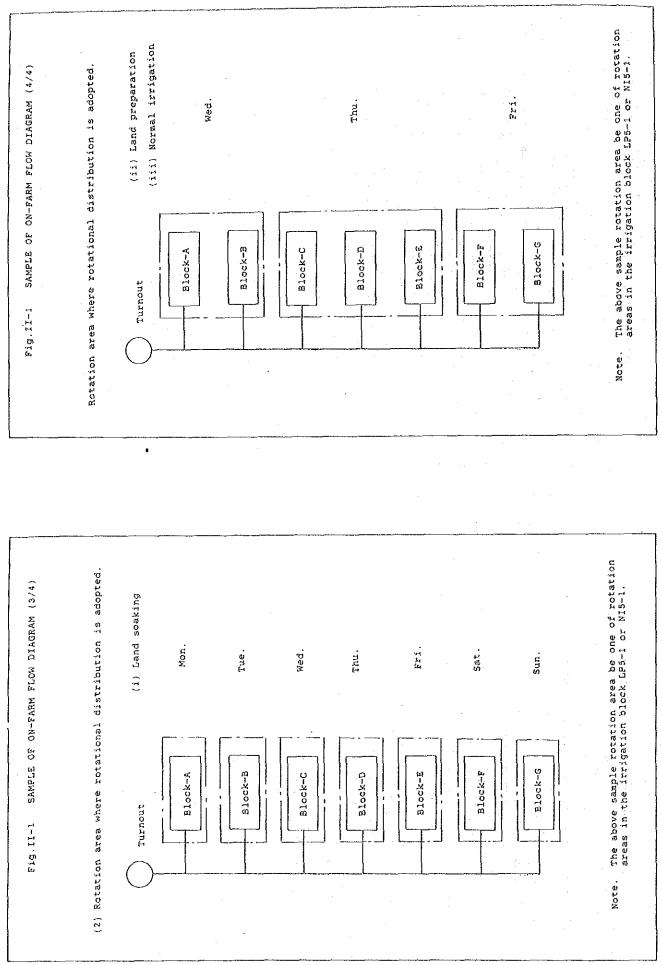
Week	Dry	Land Soaking	Land Normal Preparation Irrigation	
5th	Mon.	Block-LSO1		
	Tue.	Block-LSO2		
	Wed.	Block-LSO3		•
	Thu.	Block-LSO4		
	Fri.	Block-LSO5		
	Sat.	Block-LSO6		—
	Sun.	Block-LSO7		_
6th	Wed.		Block~1	
. 8th	Thu.		Block-2	-
	Fri.		Block-3 .	
9th 21st	Wed.		Block-1	
	Thu.	···	Block-2	
	Fri.		Block-3	

Note: - The above sample rotation area shall be one of rotation areas in the irrigation block LP5-1 or NI5-1.

- In the above rotation area, the land soaking shall be started in 5th week of the distribution schedule at system level.

- In case the rotational distribution at on-farm level is adopted, the on-farm irrigation blocks shall be divided so that total diverted water per hectare will be the same in all the on-farm irrigation blocks.





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Form-11.1.a

Rotation Area: |)7 Section: |N| Section: Season: Year:

Ditchtender

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DITCHTENDER ROTATION AREA RECORD

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Form-11.1.b

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Form-11.2

For Calibrated Staff Gage Section/Rotation Area Served____

Station: Latest Calibration Date: DISCHARGE FLOW RECORDS for Week Nos. _____ to ____ Date: _____, 19 ____ Observed Gage : Equivalent Dis- :Days Average: Height, cm. : charge, li/sec. : Discharge : AM: PM: AM : PM : li/sec. : : Discharge : REMARKS Date : Day : 1 1 : 2 2 : Mon : : . . : : 2 🕂 Tue : : Wed : : : : • : : Thu : : : 2 : : : : : : Fri : : : : : : \$: Sat : : Sun : : WEEK NO. : WEEK ANALYSIS OF DISCHARGE AVERAGE : z, : ě : : : Mon : : 4 : : Tue : : • : : : : : : Wed : : • : : : Thu : : : : : : Fri : : : : Sat : : : : Sun : : : WEEK NO. : WEEK ANALYSIS OF DISCHARGE AVERAGE : 3 : Mon : : : . 2 Tue : 1 : . : : : ÷ 4 : : : Wed : : : Thu : : • : : : : : \$: Fri : : : : : : : <u>Sat</u> : <u>: Sun :</u> : WEEK AMALYSIS OF 1 ISCHIRGE AVERAGE : WEEK NO. 2 : : : : **:** -: Mon : : Tue : : : : : ; : : : : Wed : : : Thu : : : ÷ : : Fri : : : : : Sat : : : <u>:</u> Sun : _____ ÷. : \$ ----WEEK NO.

WEEK AMILYSIS OF DISCHIRGE AVERAGE :

Prepared by:

Checked and Submitted by:

Form-II.3 OPERATION AND MAINTENANCE RECORDS

ROTATION MONTH	AREA :			Prepa	Date: red by:	, 19
OPERATION	RECORD			Inspec	ted by:	
Item		 Present	Condition		Counter to be t	measure aken
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Any other on operat	troubles	F 7 5 1 1 7 8				
MAINTENAN	CE RECORD n record			Inspec	ted by:	
Item	 Name	 Present	Condition		Counter to be t	
Canal				1 1 1 1		
Structure		*		3 1 1 1		
Road				1 		
Maintenan	ce and re	pair reco	rd actual]	y exec	uted for t	he above
Item	Name	Date	(;	Work		
Canal	; 1	1	{ ; ;			
Structure						
Road	1					

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APPENDIXES

APPENDIX-1 GUIDELINE OF TECHNICAL PRACTICES NEEDED FOR PROPER DISTRIBUTION OF IRRIGATION WATER

- 1. Discharge or rate of flow measurement
- 2. Preparation of daily suspension schedule of water delivery

APPENDIX-2 ARTICLES TO BE MODIFIED IN CASE OF MAXIMUM SERVICE AREA BEING ADOPTED

APPENDIX-3 RECORD FORMS

 $\{g_i\}_{i=1}^{N} \in \{g_i\}_{i=1}^{N} \in \{g_i\}$

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- 1. Pump operation record
- 2. Check list for pump operation
- 3. Inspection on emergency works for pump operation

APPENDIX-1 GUIDELINE ON TECHNICAL PRACTICES NEEDED FOR PROPER DISTRIBUTION OF IRRIGATION WATER

1. Discharge or Rate of Flow Measurement

Discharge or rate of flow refers to the volume of irrigation water passing through a reference point, usually a measuring device, per unit of time. It is expressed in liters per second (lit/sec) or cubic meters per second (CMS).

The measuring devices which are commonly used to measure discharges or rates of flow include Parshall Flumes, double-gated turnout (sometimes called constant head orifice turnout) and calibrated staff gage (sometimes called current meter gaging stations).

Parshall Flume, shown in Figure A-1, is a specially shaped structure that relates a head (Ha) upstreams to discharge (Q) during its freeflow condition. For submerged flow, the downstream head (Hb) has to be observed to determine the degree of submergence (DS), Hb/Ha x 100, which is used to establish the actual flow as per cent of the free flow using the submergence chart, shown in Figure A-2.

Flumes are designated according to the width of throat (W). A flume of certain width has a particular table, as shown in Table A-1 for a one foot Parshall Flume, and limit of degree of submergence (DS) in which submerged flow occurs. The discharge table for a particular size of flume is established using the following relationship:

a. For throat width of 1 to 8 feet:

$$Q = 28.32 \times W \left(\frac{Ha}{30.48}\right)^{1.522W^{0.026}}$$

b. For throat width of 10 to 50 feet:

 $Q = 28.32(3.687W + 2.5)(\frac{Ha}{30.48})^{1.6}$ where, Q : discharge, lit/sec W : throat width (ft)

Ha : upstream head (cm)

The limits of the degree of submergence (DS) for submerged flow to occur are:

70% - for 1 to 8 foot Parshall Flumes 80% - for 10 to 50 foot Parshall Flumes

Example of discharge or rate of flow measurement using a Parshall Flume:

a. Free flow condition:

Ha = 20.75 cmHb = 13.00 cm Degree of submergence (DS) will be equal to:

 $Ds = Hb/Ha \times 100$

- = 13.00/20.75 x 100
- = 63%, therefore, the flow is in a free flow condition

From Table A-1, Q will be equal to:

Q = 63.10 lit/sec

Submerge flow condition:

Ha = 20.75 cmHb = 17.85 cm

b.

Degree of submergence (DS) will be equal to:

 $DS = Hb/Ha \times 100$

- = 17.85/20.75 x 100
 - = 86%, therefore, the flow is in a submerged condition

From Figure A-2, Submergence Chart, using 86%, actual flow is 80% of free flow discharge as defined by Ha and is equal to:

Q = 63.10 lit/sec x 80/100 = 50.48 lit/sec

For the proper functioning of the Parshall Flumes:

- 1. Floating debris near the flume should be avoided,
- 2. Stone and silt deposits on the flooring of the flume should be removed regularly, and
- 3. Checking of flow downstream of the flume should be minimized.

Double-gated turnout (sometimes called constant-head orifice turnout), shown in Figure A-3, is a combination regulating and measuring device using an adjustable submerged orifice for discharge measurement. Discharges are varied by controlling the opening of the orifice gate and the differential head (h) created by the turnout gates. The discharge is established using the relationship:

> $Q = \frac{CA\sqrt{2g\Delta h}}{1000}$ where, Q : Δh :

Q : discharge (lit/sec)

h : differential head (m)

A : orifice gate opening (m^2)

- g : acceleration due to gravity (9.8 m/sec²)
- C : discharge coefficient

The discharge coefficient (C) is approximately 0.67 for normal operation where the upstream head is 2.5 or more times the maximum opening of the orifice gates.

Example of discharge or rate of flow measurement using the calibrated staff gage:

a. First example:

Orifice opening : 10.0 cm Differential head : 7.0 cm

From Table A-2 the discharge (Q) is equal to:

Q = 47.0 lit/sec

b. Second example:

Orifice opening : 15.0 cm Differential head : 9.0 cm

From Table A-2 the discharge (Q) is equal to:

Q = 80.1 lit/sec

For the proper functioning of double-gated turnouts:

- Debris and sediment accumulation in the structure should be minimized,
- 2. Orifice gate should be free from debris and weeds,
- 3. Farmditch just downstream the structure should always be kept clean for smooth flow, and
- 4. Turnout and orifice gates should be oiled regularly.

Calibrated staff gates, shown in Figure A-4, is a wooden or enameled steel staff gages that gives depth of flow from a certain datum. The depth of flow is related to discharges using a discharge-gage height curve, shown in Figure A-5, which is developed from a number of discharge measurement at the different gage height using a current meter, shown in Figure A-6. Using the curve, a table as shown in Table A-3 is derived. For every calibrated staff gage a particular calibration should be made preferably in at least three (3) to five (5) gage heights. Since most canal sections are not stable, frequent calibration should be done to update the curve and the table.

Example of discharge or rate of flow measurement using the calibrated staff gage:

a. First example:

Gage height (h) = 62.5 cm

From Figure A-5 or Table A-3, the discharge (Q) is equal to: Q = 58.0 lit/sec

b. Second example:

Gage height (h) = 45.0 cm

From Figure A-5 or Table A-3, the discharge (Q) is equal to:

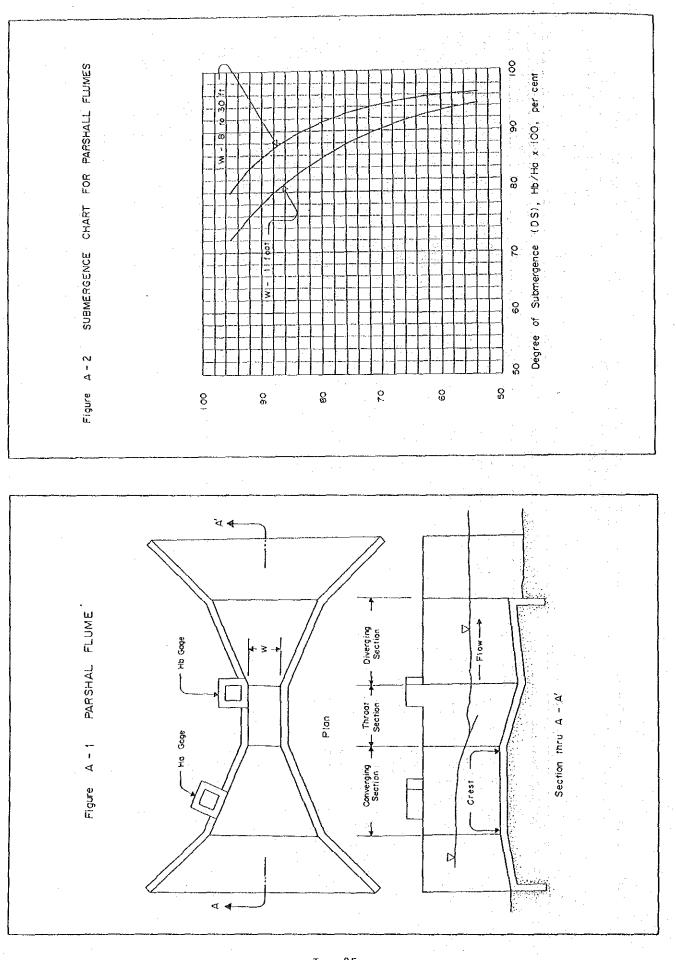
Q = 25.0 lit/sec

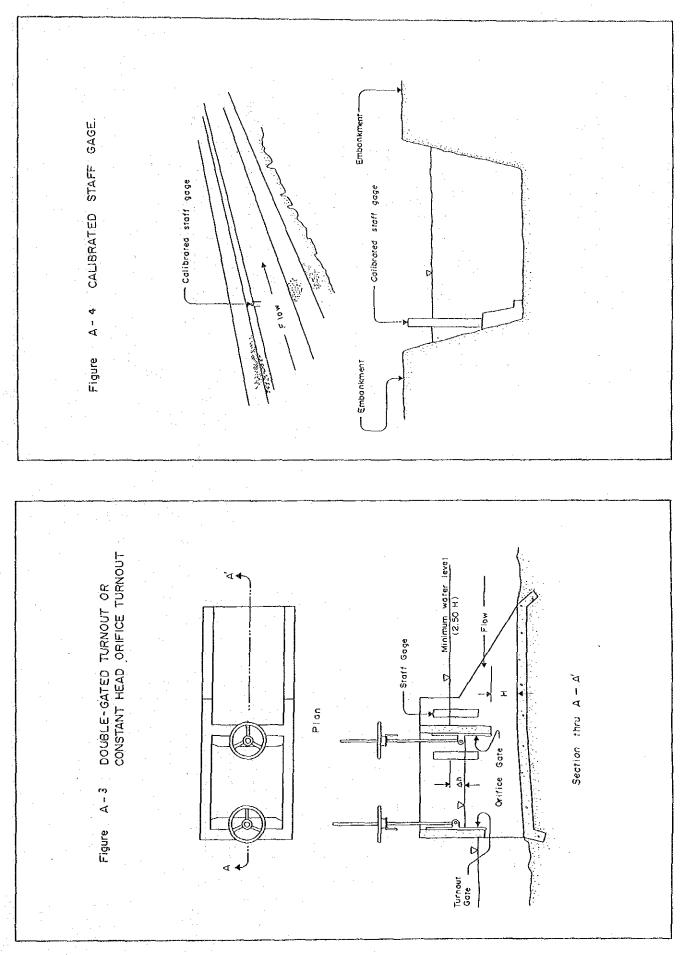
For the proper functioning of the calibrated staff gages:

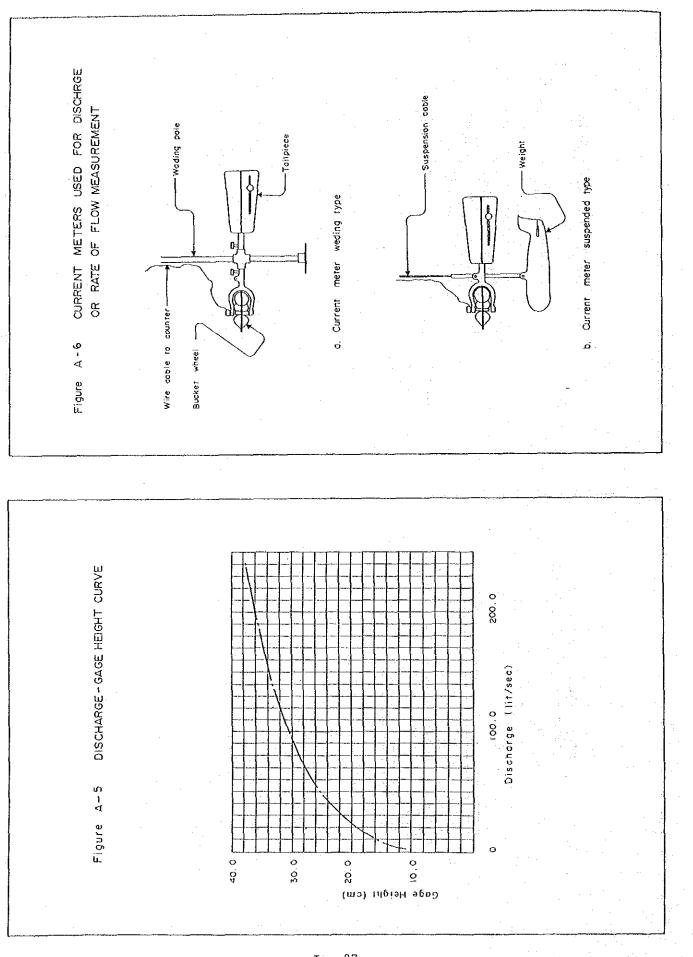
- 1. It should not be disturbed and always be perpendicular to the plane of the canal bottom,
- 2. Its rating curve should be periodically checked by taking current meter measurements, and

3. Debris and weed accumulation in the gage should be minimized.

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2. Preparation of Daily Suspension Schedule of Water Delivery

(1) Criteria on Irrigation Suspension

Proposed criteria on irrigation suspension are as follows:

Rainfall Range		Period
Previous Day		of Irrigation Suspension
<u></u>		
- 7 mm		0 day
8 - 15 mm		1 day
16 - 23 mm		2 days
24 - 30 mm		3 days
31 - 38 mm	· · ·	4 days
39 - 46 mm	1	5 days
47 - mm		6 days

The above criteria can be directly applied only to irrigation blocks where daily water delivery of 7 days/week is executed such as those under land soaking being performed or some blocks under land preparation for example Block-LS1 or Block-LP1. For irrigation blocks where rotational water deliver is conducted such as those under land preparation being performed for example Block-LP3-1 and all the blocks under normal irrigation being executed, the above criteria shall be used in process of calculation for decision of suspension period in each block as mentioned hereinafter.

- (2) Preparation of Suspension Schedule
 - (a) Rainfall observation

Daily rainfall shall be observed by a water master at the rainfall station in the System Office site. The observation time shall be at 8:00 every morning. The magnitude of rainfall shall be recorded in Form-I.1.

(b) Determination of suspension period

Period of irrigation suspension shall be determined for each irrigation block taking into account water delivery to the irrigation block executed before rainfall. For example, in case it rained 20 mm on Monday in 5th week, suspension period of Block-LP3-1 is determined as follows:

- Delivered water amount on Monday is for half of one week requirement. It means that irrigation for 3.5 days requirement was finished on Monday.
- On the other hand, rainfall of 20 mm corresponds to 2 days irrigation requirement according to the above table.
- Total water amount that Block-LP3-1 received is for 5.5 days irrigation requirement. So, the remaining water requirement for the week is calculated to be for 1.5 days.

- The irrigation requirement for 1.5 days is less than water amount to be delivered by one day rotational distribution to Block-LP3-1, namely water amount for 3.5 days irrigation requirement.
- Finally, it is decided that water delivery to Block-LP3-1 on Tuesday shall be suspended.
- The shortage of water corresponding to 1.5 days irrigation requirement shall be transferred to next preparation time of suspension schedule after next rainfall.

Form-I.4.a shall be used for calculation in the above process. Using this form, suspension periods of all the irrigation blocks shall be determined.

(c) Calculation of diversion requirement

Diversion requirements at the pump station and all the headgates concerned shall be calculated for the week. the calculation formula shown in Table I-7 shall be applied to determine those diversion requirements. The calculation results shall be recorded in Form-I.4.b.

The above calculation results shown in Form I.4.a and Form I.4.b shall be used as the daily suspension schedule.

APPENDIX-2

ARTICLES TO BE MODIFIED IN CASE OF MAXIMUM SERVICE AREA BEING ADOPTED

PART -

1

MANUAL FOR OPERATION AND MAINTENANCE OF IRRIGATION AND DRAINAGE SYSTEMS

CHAPTER - 1 GENERAL PROVISIONS

Article - 1

These provisions provided hereunder shall be applied for operation and maintenance of irrigation and drainage facilities in the Libmanan-Cabusao Pump Irrigation System.

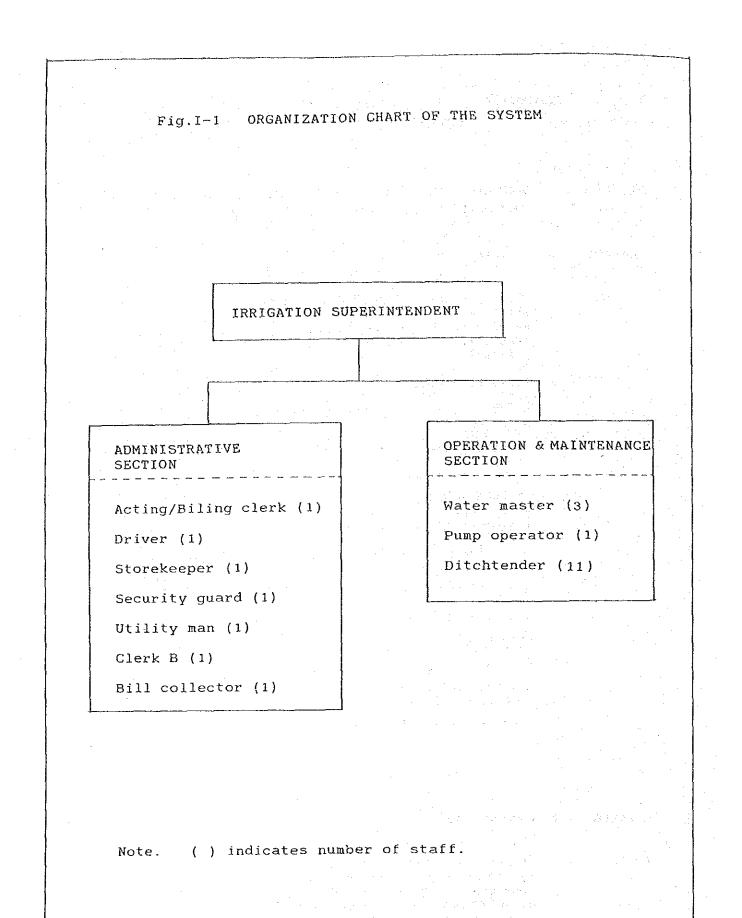
Irrigation Facilities Number Pumps 4 nos. Main canal 1 no. Lateral canals 6 nos. (Lat.A, Lat.B, Lat.C, Lat.D, Lat.E, Lat.F) 10 nos. Sublateral canals (Lat.B-Ext., Lat.C-Ext.1, Lat.C-Ext.2, Lat.C-Ext.3, Lat.C-1, Lat.C-2, Lat.C-1-Ext.1, Lat.C-2A, Lat.C-2B, Lat.C-2-Ext.) 340 nos. Canal related structures Number Drainage Facilities 11 nos. Main drains (D-A, D-B, D-C, D-D, D-E, D-F, D-G, D-H, D-I, D-J, D-K) Lateral drains 3 nos. (D-D-1, D-J-1, D-J-2) Canal related structures 190 nos,

CHAPTER - 2 ORGANIZATION

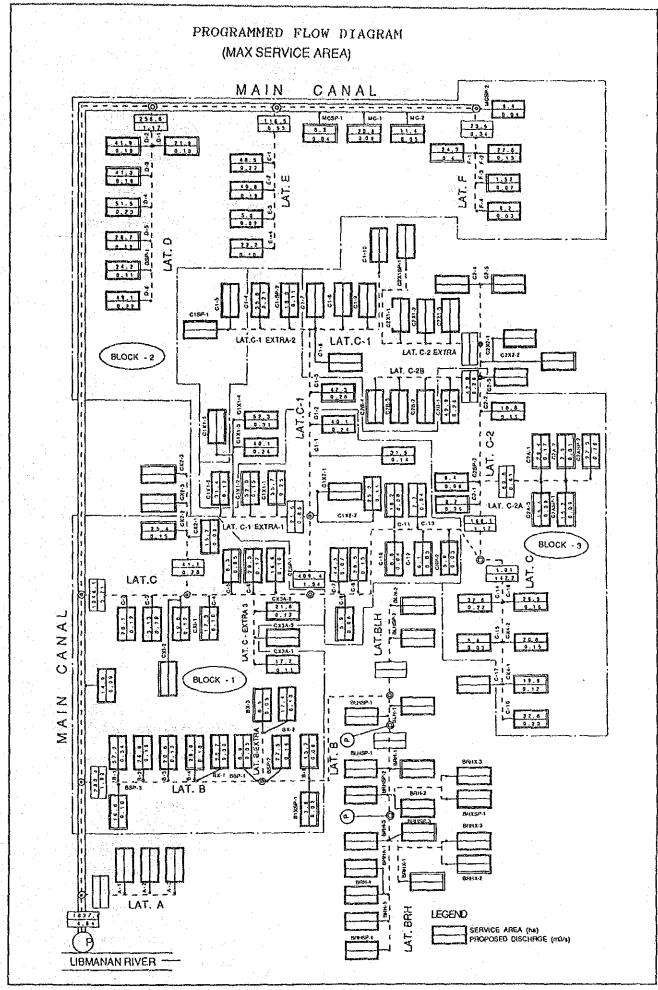
Article - 6

The Libmanan-Cabusao Pump Irrigation System Office shall be responsible for operation of the system. The organization chart of the system is shown in Fig. I-1. Organization responsible for system

Irrigation and drainage facilities for operation and maintenance



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APPENDIX-3 RECORD FORMS 1. Pump operation record

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2. Check list for pump operation

Xase of Sy	sten :	Name of Operator :		Dale :		
			Evalual	on		*****
	. * . •		Cural failer	B. Curalt.	4	
	· · · · · ·		or agree	No Function or abnormal		
	Årea	Check Iles	(of)	(x)	Reparts	an an Artan An Artan
Before				******	. 67. 4 8 6 6 7 7 9 9 2 7 8 8 8	
starting	System	- Irrigation schedule.	: :	:		
		- Veather.	-	•		
		- Vater Level at Intake,	: :	:		· .
		- Keep the susp free.	: :			
		from the dirt and any contaminants	: :	:		
		- Cleas islate and trash rack	: :	1		
		of any forign mallers.				:
		- Salety.	: :	:		
. •		and the second second second second second second second second second second second second second second second				
	Electrical	- Voltage at the Incoming panel.	: :	•		
	Nechao Ical	- Visible inspection.		•		· · ·
	licental (ca)	- Fullil grease and lubricant oil.	• •			
		- Rotate the pupp-shall.	• • •	•		
		notate the part share.	•	,		
During						
ruoning	System	- Vater level at Istate and discharge side.		*	•••	
		- Draw down at intake susp.	: :			
		- Safety.				
			• •	-		•
	Electrical	- Function of all guage and meter.		•		
		- Voltage and current at pump panel.				
	:	- Tesperature of solor.	: :	:		
			• •	•		
	Kechaalcal	- Visible inspection.	: :	:		
		- Vibratioa and noise.		:		
	1. Sec. 1. Sec	- Grease and lubricant oil.	: :	:		
		- Lealage of the glaad.	: :	:		
			•			
After						
stopping	Syster	- Record lag.	: :	:		
	e - · · -					
	Xechan ical	- Clean the all facilities.	: :	:		
	* *	- Recording.	: :			
				-		
· · ·	Electrical	- Swilch-off of all pazel.	: :	:		
		~ Recording				

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				Respon	esil	billly			e de la composition Rectatione	÷.,	
	krea	Vork Iten	Syste	office		Operator		Re	oarks	******	
linor and	System	- Stop the all facilities.	;		;	X	:				4 ● 10 ● 10
lajor	Electrical	- Inform system office	:			X		e Le se	je stale se	t.	
lroubles	Nechanica I	- Chect the causes.	:	X	:	X .					•
	• •										
leavy Rein	System	- Irrigation schedule.	:	X			:				:
yphone and		- Waler Level at Intake.	:		:	Т. Х	:			· .	t -
arthquake		- Preventive work for pupp	1		ì	x	:				:
		house to wind, rain and water.									
		- Check the damage of pumping	:	x	:	x	:			1.1	
		facilities.			•	19. E					• .
		- Reporting of damage & condition.	:	· .	ľ	x · ·	:				
		- Salety.	2	x		x					
· .		baicer.	•	•	•			1 a. 1			•
	Electrical	- Slop the main switch.				×					
	Eleccificat	- Check the Transmission Line		.		X			- -		•
				X		x	•				•
		& outside electric fecilities.									
		- Reporting of damage & condition.	:			X			·		:
	Hechanica	- Protect the pusping equipsent	:	x	;	x					:
		from tht wind & rain and water.	1.1	1 X - 4				1. A.	•		
		- Reporting of damage & condition.	:		÷.	X	;				
					:		5				
									·	· · .	
fler	System	- Check damage of all facilities	:	x	:	x	:		· .		· ·
eavy Raia		expecially intake.	1 A	1				· · ·			
yphone and		- Kale sure to check the daily		X	<u>`</u> :	x	:				:
arthquate		check list carefully.	-								
	Electrical	- Check damage of all equipment.		X		X	:				•
		- Dry the motor and equipment				x	. :			3. 1	:
		for insulation.			•				· · · ·		
		- Check the wiring connection.	,		÷.	X.					•
		- Kake sure to check the daily	•	v			:				•
		check list carefully.	•	^	•	X	•				•
		.				•					
	Nechan ica l	- Check damage of all equipment.		X		x	•				•
		- Refill oil and grease.	:		:	X	:				1.2
		- Check loosen bolts and nuts.	1		· ;	. <u>x</u> .	;				:
		- Kate sure to chect the daily	:	X	;	X	Ę			· · ·	:
		check list carefully.			••		-	10 A			

3. Instruction on emergency works for pump operation

