Tables

Table C1-1 List of Temporary Bench Marks

Sub-project		ОТМ	Northing (m)	Easting (m)	Elevation ^{*2} (m)	Remaks
Ream Kon	ТВМ.06	Ind1954 ^{*1}	1412839	333212	19.594	On the curb of bridge of existing weir (upstream, right
		WGS84	1413159	332787		side of the river)
Por Canal	TBM.05	Ind1954*1	1412595	332465	17.840	Near existing intake, existing main canal right side
		WGS84	1412914	332041		
Damnak Ampil	HW	Ind1954 ^{*1}	1380405	370838	20.15 ^{*3}	On the curb of bridge of existing weir (upstream, left
Allibii		WGS84	1380724	370415	23.673	side of the river)
Wat Loung	TBM.07	Ind1954*1	1382468	375489	20.94 ^{*4}	Near the bridge of rural road
		WGS84	1382787	375065		
Wat Chrey	ТВМ.09	Ind1954 ^{*1}	1398492	361557	14.047	Near the bridge of rural road
		WGS84	1398811	361133		
Lum Hach	TBM.10	Ind1954 ^{*1}	1362350	425890	39.782	Proposed headwork site (left side of the river)
		WGS84	1362669	425467		

- *1 UTM Zone48N Ellipsoid-Everest1830 Datum-Indian1954
- *2 EGM96 Geoid model except for Damnak Ampil and Wat Loung
- *3 El. 20.15m derives from elevation data in the drawing of the Project Proposal for Rehabilitation of Damnak Ampil Irrigation Project, MOWRAM December 2004. EL.23.673m is observed by connecting to the National Bench Mark system.

The former number is used in the present study in order to consistently compare elevation of Damnak Ampil Sub-project and Wat Loung sub-project. Accordingly, the elevation data of the two sub-projects in the present study is lower than national bench mark network by 3.523m.

*4 Connected with Damanak Ampil HW

TBM points above were surveyed by Static Dual Frequency GPS receivers to connect with the National Bench Mark network using base stations in Battambang (N2) and, Pursat (N15) and Kampong Chhnang (N4) provinces, with results computed in WGS84 datum and then converted to Indian 1954 datum (the datum of existing topomap with a scale of 1 to 100,000).

The elevation of the TBM was determined in the GPS Post Processing software by using EGM96 (Global) Geoid model which is used for determining elevation in recent ortho-photo mapping in Cambodia.

Reference points

GPS h	ase station	UTM	Northing	Easting	Elevation *
Battambang		WGS84	1447871	305875	13.8857
Pursat	N15	WGS84	1386934	381847	17.3062
Kompong Chr	N4	WGS84	1362669	463852	15.1214

Table C1-2 Inventory Survey Results of Project Facilities at Ream Kon Rehabilitation Sub-Project

Table C1-Z	HIVEHU	,, y ,5u1	vey results o	i i roject racinties at Ream Ron Rei	
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	50	На	Supplemental irrigation	Located in the upstream of the area, irrigated by farmers pump	
Headworks	1	nos.	Not functioing, deteriorated	10 nos. of movable gate	To be constructed
Intake	1	nos.	Poor	Concrete is severely deteriorated by cracks. Reinforcing bars get rusty.	To be constructed
Main canal	11.9	km	Poor	Earth canal, downstream capacity needs to be expanded, water level is lower than ground surface.	To be rehabilitated
Secondary canal	17.1	km	Poor	Earth canal, downstream capacity needs to be expanded, water level is lower than ground surface.	
Related structures	3.0	nos.	Poor	Culvert, Check, Bridge	Not enough numbers, to be reahbilitated/ replaced/ constructed
Tertiary canal Main drain		km			To be constructed A flood gate is required
Secondary drain Tertiary drain					
Inspection road	26	km	Poor	Not jeepable	To be rehabilitated

Table C1-3 Inventory Survey Results of Project Facilities at Por Canal Rehabilitation Sub-Project

Table C1-3				Project Facilities at For Canal Ren	
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	100	На	Supplemental irrigation	Located in the upstream of the area, irrigated by farmers pump	Water level in the canal be raised
Headworks	1	nos.	Not functioing, deteriorated	The same Headworks of Ream Kon sub- project	Common use with Ream Kon
Intake	1	nos.	Poor	Size: 2(w)x2(h)x1(no.), very deteriorated	To be constructed
Main canal	11.7	km	Poor	Earth canal, sedimentation, water level is lower than ground surface	To be rehabilitated
Secondary canal	8.2	km	Poor	Earth canal, sediment, lower water level is lower than ground surface	To be rehabilitated
Related structures	10	nos.	Poor	The bottom is too high, clogged by soils and grass, Newly constructed, gate sill elevation is not known	Not enough numbers, to be reahbilitated/ replaced/ constructed
Tertiary canal Main drain Secondary drain					To be constructed
Tertiary drain Inspection road					To be rehabilitated

Table C1-4 Inventory Survey Results of Project Facilities at Damnak Ampil Rehabilitation Sub-Project

Table C1-4		ıy sui		Project racinties at Dannak Amp	T Tempineurion Sub 110jeet
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	500	На	Supplemental irrigation	Supplemental irrigation to paddy by farmers pump	
Headworks	1	nos.	Constructed in 2006	Automatice gate, fall down at WL16.85m, stand up at WL 13.70m, counterweight 16.0 ton - 16.8 ton per a gate, 1.7m(B) x 3.5m(H)x4(nos) Sluice	Gates needs improvement
Intake	1	nos.	Good	Designed intake water level=17.00m	can be used
Main canal	7.5	km	Good	Earth canal, Only the 1st 7.3km was rehabilitated in 2006. Q=8.0m3/sec	can be used
Secondary canal	17.6	km	Poor		To be rehabilitated
Related structures Tertiary canal Main drain	6	nos.	Fair	Check, 3 turnout, spillway, bridge	Not enough numbers, to be reahbilitated/ replaced/ constructed To be constructed
Secondary drain Tertiary drain					
Inspection road					To be constructed

Table C1-5 Inventory Survey Results of Project Facilities at Wat Loung Rehabilitation Sub-Project

Table C1-5	Invent	ny Sui	vey results o	I I Toject Facilities at Wat Doung Ite	
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	130	На	Supplemental irrigation	Supplemental irrigation to paddy by farmers pump	
Headworks	1	nos.		Completely washed away	Water is to be supplied from Damnak Ampil wier
Intake	1	nos.		Completely washed away	Not neccessary
Main canal	17.2	km	Poor	Earth canal, sedimentation, water level is lower than ground surface	To be rehabilitated
Secondary canal	1.8	km	Poor	3 nos., Earth canal, sediment, lower water level is lower than ground surface	To be rehabilitated
Related structures	6	nos.	Poor	Aqueducts x2, Checks x2, Bridges x2	Not enough numbers, to be reahbilitated/ replaced/ constructed
Tertiary canal	-	km			To be constructed
Main drain Secondary					
drain					and the second s
Tertiary drain	l			.,	
Inspection					To be rehabilitated
road	1				

Table C1-6 Inventory Survey Results of Project Facilities at Wat Chre Rehabilitation Sub-Project

Table C1-6				i Project Facilities at wat Chre Ken	
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	60	На	Supplemental irrigation	Supplemental irrigation to paddy by farmers pump	
Headworks	1	nos.		Completely washed away	To be constructed
Intake	1	nos.		Completely washed away	To be constructed
Main canal	4.0	km	Poor	Earth canal, sedimentation, water level is lower than ground surface	To be rehabilitated
Secondary canal	4.5	km	Poor	Earth canal, sediment, lower water level is lower than ground surface	To be rehabilitated
Related structures	3		Poor	2 off-takes, Spillway, Bridge	Not enough numbers, to be real-bilitated/ replaced/ constructed
Tertiary canal			<u>.</u>		To be constructed
Main drain					
Secondary drain	2.2				
Tertiary drain Inspection					To be rehabilitated

Table C1-7 Inventory Survey Results of Project Facilities at Lum Hach Rehabilitation Sub-Project

Table C1-7	Invento	ory Sui	rvey Results o	f Project Facilities at Lum Hach Ren	abilitation Sub-Project
Description	Nos. or Q'ty	Unit	Existing Condition	Description	Judgment
Existing area	200	Ha	Supplemental irrigation	Supplemental irrigation to paddy	
Headworks		nos.	None	Completely washed away	To be constructed
Intake	***************************************		None		To be constructed
Main canal	11.4	km	Poor	Earth canal, sedimentation, water level is lower than ground surface	To be rehabilitated
Secondary canal	1	-			To be constructed
Related structures	10		fair to poor	Off-take, Check, Bridge x2, culverts x10	Not enough numbers, to be reahbilitated/ replaced/ constructed
Tertiary canal			l		To be constructed
Main drain			l		
Secondary drain	16.4	km	Fair	2 nos., the Boribo River sometimes flows into the drains when the water level is high.	A flood gate is required
Tertiary drain Inspection road					To be rehabilitated

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Consumptive use, EToxKc + (mm/day)	(Apr												5.4	- 4 -			- 1					- 1	1			Ì			-	1
Net field water req FW +LP (mm/day)		10.6	1 [4,6	42	3.9	.8 3.7	ອ	2.7	. 6	3.3 2.6	0.0	2.6	4	4.8 0.5	. e.	0.0	32		5.0	5.0	4.9 0.0	0.0	0.0				.		
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FW+LP	day)			8.7	10.4	12.7		2.0	2.7				2.8						0.0	4.0	~	- 1			5.4	0.0		0.0		
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Secondary Seco	148 152 153 154		2.8 3.5 2.2 2.9 0.0 2.8 0.0 2.9 0.0 3.3 4.6 4.6 6.6 6.7 5.4 5.6	6.9 6.9 2.1 2.1
18 18 18 18 18 18 18 18	1.8 1.1 1.1 1.2		106 122 133 28 35 22 29 00 28 00 29 00 33 46 46 66 67 54 56	6.9 6.9 2.1 2.1
March Marc	1.8 1.0		16.1 18.4 20.2 4.2 5.3 3.3 4.4 0.0 4.2 0.0 4.3 0.0 5.0 7.0 7.0 10.1 10.2 8.2 8.4	10.4 10.4 3.2 3.2
March Marc	11 12 12 13 14 14 15 15 14 15 15 15		1.86 2.13 2.34 0.49 0.62 0.38 0.50 0.00 0.49 0.00 0.50 0.50 0.81 0.81 1.17 1.18 0.95 0.98	1.21 1.21 0.37 0.37
Marie Mari	Aug	i		
10 10 11 11 11 11 11 11	Aug September Septem September September September September September S		7 10.4 11.7 12.5	
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13 15 15 15 15 15 15 15	10 10 10 10 10 10 10 10		1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10	0.95 0.95 0.00 0.00
August A	August A		6.3 5.6 5.6 5.6 5.6 5.6 5.6 5.2 5.2 5.2 7.3 7.3 5.7	5.5 6.9 3.5 2.1
14. See 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	March Marc		3.5 2.9 0.0 2.8 0.0 2.9 0.0 3.5 4.6 4.5 6.7 6.8 5.6	5.5 6.9 3.5 2.1
L155 16-20 17-25	13 15 17 18 18 18 18 18 18 18		8.7 10.4 11.7 12.5 3.5 2.9 0.0 2.8 0.0 2.9 0.0 3.5 4.6 4.6 4.5 6.7 6.8 5.6	5.5 6.9 3.5 2.1
111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 126-31 1-5 6-10 111-15 16-20 121-25 12-2 1-5 6-10 111-15 16-20 121-25 12-2 1-5 6-10 111-15 16-20 121-25 12-2 1-5 6-10 111-15 16-20 121-25 12-2 1-5 6-10 111-15 16-20 121-25 12-2 1-5 6-10 121-12 12-2 12-2 12-2 12-2 12-2 12-2	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		15.7 17.7 18.9 5.3 4.4 4.4 0.0 4.2 0.0 4.3 0.0 5.3 7.0 7.0 6.9 10.2 10.3 8.4	8.3 10,4 5.3 3.2
14-15 14-25 12-1	1-15 6-20 21-25 6-26 1 1-5 6-10 11-15 6-20 21-25 6-25 3 1 1-5 6-10 11-15 6-20 21-25 6-20 1 1-5 6-10 11-15 6-20 21-25 6-20 1 1-5 6-10 11-15 6-20 21-25 6-20 1 1-5 6-10 11-15 6-20 21-25 6-20 1 1-5 6-10 11-15 6-20 21-25 6-20 1 1-15 6-20 21	4	1.82 2.05 2.19 0.62 0.50 0.50 0.00 0.49 0.00 0.50 0.00 0.61 0.81 0.81 0.80 1.18 1.19 0.98	0.96 1.21 0.61 0.37
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151 182 22 249 1057 1056 1058 047 056 056 054 033 032 032 025 050 056 057 113 113 057 056 050 050 050 050 050 050 050 050 050	1.50 1.56 2.22 2.49 1.61 1.65 1.65 1.65 1.64 1.65		067 065 068 047 066 058 045 033 046 072 084 0.08 057 0.00 0.56 0.19 0.88 0.87 0.00 0.00	
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1.56 1 186 2.2 2.54 0.80 0.59 0.66 0.58 0 49 0.33 0.44 0.33 0.40 0.00 0.44 0.00 0.84 0.25 0.70 0.33 0.39 0.83 0.13 1.13 0.94 0.96 0.00 0.00 0.00 0.00 0.00 0.04 0.00 0.00 0.00 0.00 0.00	1.56 1.88 2.2 2.54 0.89 0.56 0.56 0.56 0.49 0.35 0.49 0.35 0.40 0.04 0.05 0.56 0	L	2.23 2.56 0.77 0.80 0.47 0.66 0.58 0.49 0.36 0.49 0.38 0.47 0.00 0.45 0.04 0.84 0.00 0.70 0.93 0.90 1.12 1.12 0.88 0.94	0.00
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1.52 1.87 2.04 2.55 0.77 0.51 0.38 0.49 0.38 0.50 0.00 0.49 0.00 0.58 1.18 1.18 0.35 0.55 0.58 0.00 0.00 0.00 0.00 0.58 0.81 1.18 1.7 0.93 0.55 0.59 0.98 0.89 1.21 1.21 0.98 0.37 0.00 0.00 0.00 0.58 0.81 1.18 1.18 0.58 0.89 0.89 1.21 1.21 0.98 0.37 0.00 0.00 0.00 0.58 0.81 1.18 1.18 0.58 0.89 0.88 0.88 0.89 0.80 0.37 0.00 0.00 0.58 0.81 0.81 1.18 0.58 0.88 0.88 0.88 0.88 0.89 0.80 0.80 0.8	1.52 1.87 2.04 2.55 0.70 0.50 0.00 0.49 0.00 0.50 0.00 0.49 0.00 0.50 0.00 0.50 0.00 0.50 0.00 0.0		1.86 2.22 2.31 0.79 0.70 0.49 0.36 0.49 0.38 0.50 0.00 0.49 0.00 0.47 0.00 0.95 1.18 0.93 0.92 0.93 0.91 1.20	0.96 0.00 0.00 0.00
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	1.85 2.15 2.53 2.57 2.49 2.58 2.56 2.56 2.56 2.57 2.31 2.55 2.45 2.34 2.34 2.39 0.62 0.72 0.84 0.33 0.82 0.04 0.84 0.25 0.95 1.18 1.18 1.18 1.18 1.19 1.20 1.22 1.21 1.21 1.21 1.21 0.61 0.37 0.37	_	1.82 2.05 2.19 0.62 0.50 0.50 0.00 0.49 0.00 0.50 0.00 0.61 0.81 0.81 0.80 1.18 1.19 0.98	0.96 1.21 0.61 0.37 0.37

Table C3-2 Summary of Irrigation and Drainage Plan of Six Sub-projects

	Table C3-2 Sum	mary of it	rigation a	nd Drainag		Six Sub-pi	ojects	Total
	-	D	Des Const	Name of S Damnak Ampil	Sub-project	Wat Chre	Lum Hach	iotai
No.	Description	Ream Kon	Por Canal					40.700
1.	Sub-project area (ha)	1,890	1,940	2,270	2,540	1,020	3,100	12,760
	(Pump irrigation area included above)	(280)	0	(500)	(800)	(400)	(410)	(2,390)
2.	Annual irrigation area (ha)	<u>2,413</u>	<u>2,494</u>	<u>2,364</u>	<u>2,645</u>	<u>1,062</u>	<u>4,700</u>	<u>15,678</u>
	- Early wet season paddy (ha)	1,180	1,220	94	105	42	1,300	3,941
	- Medium wet season paddy (ha)	1,180	1,220	2,270	2,540	1,020	3,100	11,330
	- Dry season paddy (ha)	53	54	0	0	0	300	407
3.	Major water source	Moun Ru	ssei River		Pursat River		Boribo River	
	- Name of headworks	•	Russei truction)	Damnak Am	pil (Existing)	Wat Chre (Reconstruc.)	Lum Hach (Reconstruc.)	
	- Intake water level (EL. m)	15.50	15.00	17.00	17.00	13.00	38.00 - 36.00	
	- Diversion water requirement at intake (m³/sec)	2.66	2.74	7.93	3.45	1.39	6.60	
4.	Main canals (nos.)	2	2	1	1	1	1	8
	- Total length (km)	18.4	12.7	7.5	20.3	4.7	16.4	80
5.	Nos. of secondary canals	16	12	3	10	6	11	58
	- Total length (km)	12.9	15.8	17.6	31.1	14.7	42.4	135
6.	Number of Tertiary Blocks (No.)	47	42	50	54	27	67	287
	Total length of tertiary canals (km)	57	55	85	81	27	67	372
7.	Main drains	- Moung Russei, - Ou Anlong Rolus	- Moung Russei, - MD-1	Ou Bakan/Boeun g Khnar River	Boeung Khnar R.	- Boeung Khnar R., - Ta Paong stream	Boribo River	
	- Total length (km)	7.2	9.3	-	-	-	-	17
	- Drainage water requirement from paddy field (lit/sec/ha)	7.17	7.17	6.32	6.32	6.32	6.83	
	- Drainage water requirement from other land (lit/sec/ha)	19~25	19~25	18~25	18~25	18~25	19~25	
8.	Secondary drains (nos.)	9	10	4	8	7	11	49
	- Total length of seconday drains (km)	25.1	14.8	28.2	37.7	14.8	53.9	175
9.	Collector drains (nos.)	3	2	0	0	0	0	5
	- Total length of collector drain (New, km)	19.4	10.0	0	0	0	0	29

Record R	Lable C5-1	Irrigation Water Requirement of Wet Season Faddy by Transplanting in Damnak Ampil, Wat Loung, and Wat Chre	Sub-projects (1/2
The color of the		16-20 26-36 26-30 14-5 6-10 14-15 16-20 21-25 26-31 14-5 16-30 14-35 26-31 14-5 16-30 14-3	Dec 11-15 16-20 2
	(mm/day)	25 25 25 25 25 25 25 25 25 25 25 25 25 2	3.5
Second	ter transplanting, β	0.6 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4	
Colorado	In reproductive, B	1.0 1.0 0.6 0.6 0.6 0.6 0.6 1.0 1.0	
	(mm/day)	22 15 18 23 19 15 27 29 21 22 26 27 24 29 21 33 39 41 33 23 40 26 50 17 32 28 06 04 07 07 07 07	0.0
	ion efficiency		
	(wep/ww)	100 12.1 13.5	
	(mm/day)	15 15 15 10 10 10 10 10 10 10 10 10 10 10 25 25 15 15 15 15 15 15 25 25 15 00 00	
		1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10	
	Ko + PxB	6.0 5.5 5.5 5.5 5.1 5.1 5.1 4.9 4.9 6.4 5.4 5.4 5.4 5.4 5.0 6.0 6.0 5.1 5.1 0.0 0.0	
	(mm/day)	700 121 315 320 41 339 26 26 33 25 27 3 24 20 43 33 21 13 13 21 31 10 35 10 34 19 00 00	
	(mm/day)	15. 184 205 55 62 60 43 40 51 44 37 36 37 40 65 49 32 23 19 32 47 15 53 15 51 29 00 00	
	(sec/ha)	1.75 2.13 2.37 0.64 0.71 0.69 0.49 0.46 0.58 0.51 0.43 0.41 0.43 0.41 0.43 0.45 0.57 0.57 0.37 0.22 0.37 0.22 0.37 0.54 0.18 0.51 0.18 0.51 0.59 0.34 0.00 0.00	
10 10 10 10 10 10 10 10	tation	0.00	
		0.4 11.5 13. 14. 15 10 10 10 10 10 10 10 10 25 25 15 15 15 15 15 15 25 25 15 15 00 00	
Column	. 5	10 10 10 110 110 110 110 110 110 105 105	-
The control of the	EToxKc + PxB	6.0 5.5 5.5 5.5 5.5 5.1 5.1 5.1 5.1 4.9 4.9 6.4 6.4 5.4 5.4 5.4 5.4 5.4 5.4 5.0 6.0 6.0 5.1 5.1 0.0 0.0	
Street S		41 44 28 26 33 29 25 23 26 20 28 33 31 15 13 21 31 14 25 10 43 19 23 00 00	
1	- !	10.4 11.9 13.1 4.1 4.4 2.8 2.6 3.3 2.9 2.5 2.3 2.6 2.0 2.8 3.3 3.1 15 13 2.1 3.1 1.4 2.5 1.0 4.3 1.9 2.3 0.0 0.0	
The contraction of the contracti	j -	15.7 180 189 62 6.7 4.3 4.0 5.1 4.4 3.7 3.6 4.0 3.0 4.3 4.9 4.7 2.3 1.9 3.2 4.7 2.1 3.1 3.2 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
1		1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1	
The color of the		10.2 11.6 13.6	
The control of the co		1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.5 2.5 1.5 1.5 1.5 1.5 1.5 2.5 2.5 1.5 1.5 1.0 0.0	
Street S	CORDON CONTRACTOR CONTRACTOR	110 110 110 110 110 110 110 110 110 105 105	
Columbia	nptive use, EToxKc + PxB (mm/day)	6.0 5.5 5.5 5.1 5.1 5.1 5.1 5.1 5.1 5.1 6.4 6.4 5.4 5.4 5.4 5.4 5.4 5.5 5.5 5.5 5.5 5	
1. 1. 1. 1. 1. 1. 1. 1.	C+P-ER (Mm/day)	4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	-
Columbia		155 175 206 17 50 40 51 44 37 36 40 33 47 37 47 38 19 32 47 21 43 00 66 44 35 65 00 00	
State Columnication State Stat	1 1	1.79 2.03 2.39 0.78 0.58 0.46 0.58 0.46 0.59 0.51 0.43 0.41 0.46 0.38 0.49 0.31 0.54 0.44 0.22 0.37 0.54 0.24 0.50 0.00 0.76 0.57 0.41 0.75 0.00 0.00	
St. 100 13 140 150 1			
1.0 1.0	4	10.0 11.8 14.0 20 20 20 20 20 20 20 20 20 20 20 20 20	
Secondary Seco		1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 1.0 1.0 1.0 1.0 0.0 0.0 1.0 1.0 1.0 1	
State Stat	optive use, EToxic + Px3 (mm/dav)	6.0 5.5 5.1 5.1 5.1 5.1 5.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	-
150 150	c+P-ER (mm/day)	3.3 3.1 3.3 2.9 2.5 2.3 2.6 2.1 3.0 1.8 1.6 2.5 2.3 2.1 3.1 1.4 2.8 0.4 3.3 2.9 3.3 4.3 4.5 0.0 0.0	
12.0 12.0	3	10.0 11.9 14.0 3.3 3.1 3.3 2.9 2.5 2.5 2.3 2.6 2.1 3.0 1.8 1.6 2.5 2.3 2.1 3.1 1.4 2.8 0.4 3.3 2.9 3.3 4.3 4.5 0.0 0.0	
150 1.76 2.09 2.46 0.58 0.54 0.54 0.54 0.54 0.54 0.54 0.55 0	jation water requirement (mm/day)	15.2 181 213 5.0 4.7 5.1 4.4 3.7 3.6 4.0 3.3 4.5 2.7 2.4 3.8 3.4 3.2 4.7 2.1 4.3 0.6 5.0 4.4 5.0 6.5 6.8 0.0 0.0	
Signature Sign	gation water requirement (1/sec/ha)	1.76 2.09 2.46 0.58 0.54 0.58 0.51 0.43 0.41 0.46 0.38 0.55 0.31 0.28 0.44 0.40 0.37 0.54 0.24 0.20 0.07 0.58 0.51 0.58 0.75 0.78 0.00 0.00	
Marie Mari	ation (mm/day)	102 122	and a second second
11 11 11 11 11 11 11 1	(web/mm)	15 15 10 10 10 10 10 10 10 10 10 25 25 15 15 15 15 15 25 25 16 10 00	
Mariely Res 102 122 127 21 22 22 22 22	efficient. Ko	1.10 1.10 1.1 1.1 1.1 1.10 1.05 1.05 1.0	
minday) 12.8 15.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	notive use, EToxKc + Px8 (mm/dav)	60 51 51 51 51 51 51 49 49 64 64 54 54 54 54 50 60 58 49 49 00 0.0	
128 152 122 213 214 215	c + P - ER (mm/day)	3.1 3.8 2.9 2.5 2.3 2.6 2.1 3.0 1.9 1.6 1.0 2.3 3.1 1.4 2.8 0.4 3.7 1.9 3.3 5.2 4.5 4.2 0.0 0.0	
128 155 185	d water req FW +LP (mm/day)	10.2 12.2 12.7 3.1 3.8 2.9 2.5 2.3 2.6 2.1 3.0 1.9 1.6 1.0 2.3 3.1 3.1 1.4 2.8 0.4 3.7 1.9 3.3 5.2 4.5 4.2 0.0 0.0	
148 180 2.15 2.23 0.54 0.67 0.51 0.41 0.41 0.46 0.36 0.34 0.26 0.16 0.45 0.54 0.54 0.54 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.56 0.55 0.	gation water requirement (mm/day)	15.5 18.5 19.2 4.7 5.8 4.4 3.7 3.6 4.0 3.3 4.5 2.9 2.4 1.5 3.4 4.7 4.7 2.1 4.3 0.6 5.6 2.9 5.0 7.9 6.8 6.4 0.0 0.0	
minidary) 8.5 10.4 11.3 12.5 1.5 1.5 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	gation water requirement (I /sec/ha)	180 2.15 2.23 0.54 0.67 0.57 0.43 0.41 0.46 0.38 0.53 0.34 0.28 0.18 0.40 0.54 0.54 0.54 0.24 0.50 0.07 0.65 0.33 0.58 0.38 0.78 0.74 0.00 0.00	
Control Cont	tation (mm/dm/)	40.4 11.2	
Midday		101 101 10 10 10 10 10 10 10 10 10 10 10	
Columbia	oefficient, Kc	1,00 1,10 1,10 1,10 1,10 1,10 1,10 1,10	
Ministry	mptive use, EToxKc + Pxg (mm/day)	5.6 5.1 5.1 5.1 5.1 5.1 5.1 5.1 4.9 4.9 6.4 6.4 5.4 5.4 5.4 5.4 5.4 5.4 5.8 5.8 4.9 4.9 0.0 0.0	
150 151 152 151 152 151	Tc + P - ER (mm/day)	3.8 3.4 2.5 2.3 2.6 2.1 3.0 1.9 1.8 1.0 0.8 3.1 4.1 1.4 2.8 0.4 3.7 2.3 2.3 5.2 5.4 4.2 4.2 0.0 0.0	
13.0 15.8 17.1 18.9 5.8 5.2 3.7 3.6 4.0 3.8 0.53 0.34 0.31 0.18 0.13 0.54 0.2 2.1 4.3 0.6 5.6 3.4 3.5 7.9 8.2 6.4 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	id water reg FW +LP (mm/day)	104 113 125 38 34 25 23 26 21 30 19 18 10 08 31 41 14 28 04 37 23 23 52 54 42 42 00 00	
Miles Mile	- 17	100 1/1 185 588 5.80 5.20 5.70 5.80 4.00 5.30 4.50 5.29 5.70 1.50 1.70 5.50 5.70 5.50 5.70 5.70 5.70 5.70 5	
midally midally (1.5) (1		1.30 1.30 2.18 0.00 0.40 0.40 0.30 0.30 0.30 0.30 0.10 0.10 0.30 0.30 0.30 0.40 0.30	
15 15 15 15 15 15 15 15	reparation, LP (mm/day)	9.8 11.1 19.3	
1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.0	ation, P x m (mm/day)	15 15 10 10 10 10 10 10 10 10 10 25 25 15 15 15 15 15 15 25 25 15 00	0.0
midaly 86 98 11 13 34 50 51 51 51 51 51 61 62 13 61 62 14 54 54 54 54 54 54 54 55 55 55 55 55 50 50 00 00 00 00 00 00	aefficient, Ka	1.1 1.1 1.1 1.10 1.10 1.10 1.10 1.05 1.05	8
midaly 86 9.8 111 113 54 30 25 26 21 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	mptive use, Eloxic + Pxp (mm/day)	3.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 4.8 4.8 0.4 0.4 3.4 3.4 3.4 3.4 3.6 3.6 3.0 3.0 4.3 4.4 4.0 3.0 3.0 3.0 4.3 4.3 0.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	0.0
miday) 13.1 14.9 16.8 20.2 5.2 4.5 3.6 4.0 3.3 4.5 2.9 2.7 1.8 1.2 2.4 6.2 3.6 4.3 0.6 5.6 3.4 4.0 6.4 8.2 7.8 6.3 6.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	d water red FW +LP (mm/day)	98 111 133 34 30 23 26 21 30 19 18 12 08 16 41 24 28 04 37 23 27 42 54 52 42 42 00	ac
beshold 151 1.72 1.95 2.34 0.60 0.52 0.41 0.46 0.38 0.53 0.34 0.31 0.21 0.22 0.42 0.50 0.07 0.65 0.40 0.47 0.74 0.86 0.91 0.73 0.73 0.00 0.00	gation water requirement (mm/day)	14.9 16.8 20.2 5.2 4.5 3.6 4.0 3.3 4.5 2.9 2.7 1.8 1.2 2.4 6.2 3.6 4.3 0.6 5.6 3.4 4.0 6.4 8.2 7.8 6.3 6.3 0.0	0.0
	gation water requirement (I /sec/ha)	1.72 1.95 2.34 0.60 0.52 0.41 0.46 0.38 0.53 0.34 0.31 0.21 0.41 0.40 0.28 0.72 0.42 0.73 0.42 0.73 0.02 0.07 0.65 0.40 0.47 0.45 0.95 0.91 0.73 0.73 0.00	00

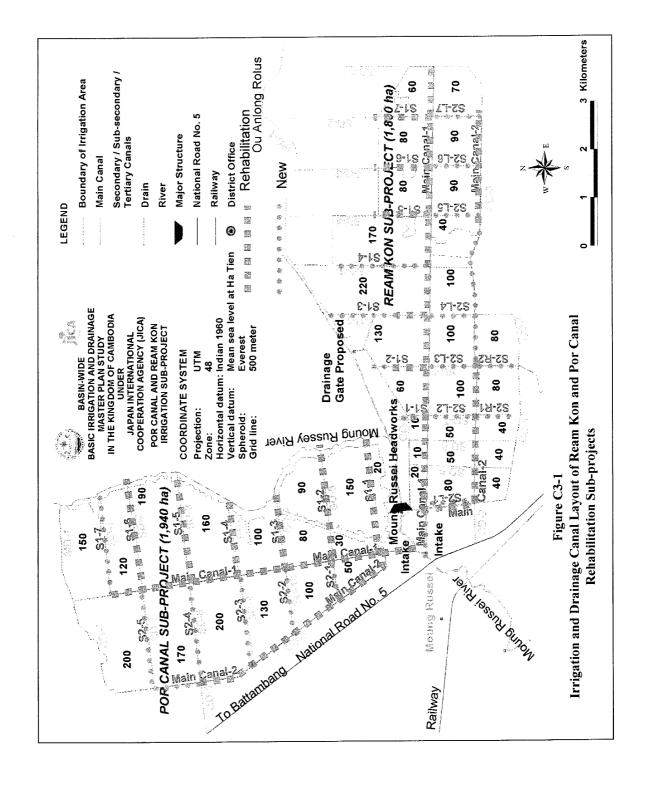
March Marc	0.00
Company Comp	11 1.0
4C+ Pig (miniday) 8.4 9.7 1.17 1.1	11 12 12 24 48 63 64 56 20 23 27 46 44 52 51 42 40 00<
Marchelle Marc	30 31 31 32 31 43 43 43 34 34 34 34
12 13 12 13 13 14 15 15 15 15 15 15 15	30 19 16 12 29 27 18 12 24 24 20 0.0 0.0 45 0.34 0.31 0.21 0.17 0.26 0.47 0.67 0.76 0.77 18 4.5 2.6 0.0
127 12 12 12 12 12 12 12	45 29 27 18 14 24 36 56 36 34 40 70 67 71 72 25 25 25 15 15 15 75<
May	10
1.0 1.1 1.2 1.5 1.5 1.0	10
15 10 10 10	1.0 1.0
1.10 1.10	1.0 1.0
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10
Red fold 114 12.3 2.8 3.1 2.1 3.0 1.2.7 16.3 1.2 1.2 1.2 1.2 1.3 2.1 3.0 4.5 1.2.7 16.3 1.2 1.2 1.2 1.2 1.2 1.3 4.5 1.2.7 1.2 1.2 1.2 1.2 1.2 1.2 1.3 4.5 1.2.8 1.3 1.3 1.3 1.3 4.5 1.2.8 1.3 1.3 1.3 1.3 4.5 1.2.8 1.3 1.3 1.3 1.3 4.5 1.2.8 1.3 1.3 1.3 1.3 1.3 1.2.8 1.3 1.3 1.3 1.3 1.2.8 1.3 1.3 1.3 1.3 1.2.8 1.3 1.3 1.3 1.2.8 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.3 1.3 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	10 10<
12.7 13.7 13.7 4.7 4.7	45 2.9 2.1 2.9 1.3 6.3 6.3 6.3 6.4 0.0
14.7 1.7 2.00 2.16 0.56 0.56 0.55 0.55	10
(mm/day)	1.0
Immiday Immi	10
(minicary) (1.0 1.10 1	1.0 1.0
(minday) 2.6 2.6 2.1 2.1	51 62 52 <t>52 52 52 52<!--</td--></t>
The company E. S. 1.0	30 19 18 12 09 18 20 19 23 14 47 23 27 46 48 45 51 51 42 48 00 00 30 19 18 12 09 18 26 09 23 14 47 23 27 46 48 45 51 51 42 48 00 00 45 29 27 18 14 27 42 13 36 24 77 34 40 76 78 68 78 78 47 78 00 55 034 037 021 0.17 0.31 0.49 0.16 0.16 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 034 0.37 0.21 0.17 0.31 0.49 0.16 0.16 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 19 18 12 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 19 18 12 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 19 18 12 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 19 18 12 0.24 0.24 0.24 0.24 0.24 0.24 0.24 55 19 10 10 10 10 10 10 10
Transfery Tran	3.0 1.6 1.6 2.0 2.5 1.4 4.7 2.6 4.6 4.6 4.5 5.1 5.1 4.2 4.8 0.0 0.0 4.5 2.2 2.7 4.6 7.6 7.0 4.6 5.6 7.7 4.6 7.0 7.0 6.0 0.0
129 150 167 165 167 165 167 165	45 29 27 18 14 27 42 43 20 17 73 68 78 78 64 73 90 0.00 055 0.34 0.31 0.21 0.31 3.4 40 70 73 6.8 73 0.00 0.00 0.00 1.6 1.0
1449 174 193 2.14 0.55 0.46 0.55 (mm/day)	0.53 0.34 0.31 0.21 0.17 0.31 0.49 0.15 0.41 0.24 0.82 0.40 0.47 0.81 0.84 0.78 0.90 0.74 0.85 0.00 0.00 0.00 0.00 0.00 0.00 0.00
(mm/day) 8.4 9.7 10.5 1.5 2.6 3.5 1.6 1.5 1.5 1.5 3.5 3.5 1.5 3	1.6
Charactery Section Charactery Charac	15
(crim/day) (crim/d	1.0 1.0
Ack = Pop (minday) Ref 9.7 10.9 12.5 2.6 5.6 4.1P (minday) 1.28 1.6 1.9 1.2.5 2.6 3.5 4.1P (minday) 1.28 1.6 1.9 1.0 5.0 <td< td=""><td> 15 15 15 15 15 15 15 15</td></td<>	15 15 15 15 15 15 15 15
Commission Com	35 19 18 12 09 18 29 18 28 11 23 00 47 23 27 46 48 45 55 51 42 48 00 00 00 05 51 42 48 10 00 00 00 05 51 42 48 10 00 00 00 05 51 42 48 10 00 00 00 00 00 00 00 00 00 00 00 00
Act Commission	1
128 14,7 16,5 19,0 4,0 5,5	53 2.9 2.7 1.8 1.4 2.7 4.2 1.6 3.6 0.0 7.1 3.4 4.0 7.0 7.3 6.8 8.3 7.8 6.3 7.3 0.0 0.00 <th< td=""></th<>
148 170 191 219 046 06	0.04 0.34 0.31 0.21 0.17 0.31 0.49 0.19 0.41 0.00 0.82 0.40 0.47 0.81 0.89 0.79 0.89 0.73 0.85 0.00 0.00 0.00 0.00 0.00 0.00 0.00
(mm/day) 8.4 9.6 11.1 11.9 1.5	15 15 10 10 10 10 10 10 10 10 10 10 10 5 15 15 15 15 15 15 15 15 10 15 10 110 1
(mm/day) (47 1.69 1.95 2.09 0.61 (mm/day) (47 1.69 1.95 2.09 0.61 (mm/day) (15 15 10 10 10 10 10 10 10 10 10 10 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
This pay	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Mck = Pog l immiday) 8.4 9.6 11.1 11.9 3.5 4.P. (immiday) 8.4 9.6 11.1 11.9 3.5 purposer in (immiday) 1.2.7 14.6 16.9 18.1 5.3 purposer in (immiday) 1.47 1.69 18.2 2.09 0.61 xxx = Pog (immiday) 8.3 9.6 10.7 13.0 4.P. (immiday) 8.3 9.8 10.7 13.0 ullerent (immiday) 8.3 9.8 10.7 13.0 ullerent (immiday) 1.46 1.71 18.8 2.97 1.46 Res 1.46 1.71 18.8 2.97 1.46 1.71 18.8 2.97	5.6 5.5 5.1 5.1 5.1 5.1 5.1 5.1 6.0 3.2 3.3 2.7 4.6 4.5 4.5 5.5 5.2 5.2 5.2 6.0 5.0 0.0
Complete	3.5 2.4 18 12 0.9 1.8 2.8 1.1 2.5 0.0 3.2 3.3 2.7 4.6 4.8 4.5 4.5 5.5 5.2 4.8 4.8 0.0
1,	
userwind (mindes) 127 146 169 18.1 5.3 userwind (isserba) 1,47 1,69 1.92 2.09 0.61 x(c+ Pop (immides) 8.3 9.6 1.07 1.30 +P (immides) 8.3 9.6 1.07 1.30 +IP (immides) 8.3 9.8 10.7 1.30 ullerent (immides) 1.56 1.88 1.57 1.30 ullerent (immides) 1.46 1.71 1.88 2.77	3.5 2.4 1.8 1.2 0.9 1.8 2.8 1.1 2.5 0.0 3.2 3.3 2.7 4.6 4.8 4.5 4.5 5.5 5.2 4.8 4.8 0.0
1,47 1,69 1,95 2,09 0,61 (mm/desy)	5.3 3.7 2.7 1.8 1.4 2.7 4.2 1.6 3.8 0.0 4.9 4.9 4.0 7.0 7.3 6.8 6.8 8.3 7.8 7.3 7.3 0.0
(mm/dea) 8.3 9.8 10.7 13.0 x/c+Prg (mm/dea) (mm/dea) 6.3 9.8 10.7 13.0 +LP (mm/dea) (mm/dea) 6.3 9.8 10.7 13.0 Ullement (mm/dea) 12.6 14.8 16.2 13.0 Ullement (Mexchan) 14.6 17.1 18.8 2.97	0.61 0.43 0.31 0.21 0.17 0.31 0.49 0.19 0.44 0.00 0.56 0.57 0.47 0.81 0.84 0.79 0.79 0.96 0.91 0.84 0.85 0.00
(mm/day)	
(mm/day)	0.00
AKC + Prig (mm/day) 6.3 9.8 10.7 13.0 4-P (mm/day) 6.3 9.8 10.7 13.0 4-P (mm/day) 126 14.8 15.2 19.6 4-P (mm/day) 14.6 17.1 18.8 2.9 1 (mm/day) 1.46 17.1 18.8 2.9	13 10 10 10 10 10 10 10 2 2 2 2 13 13 13 13 13 2 2 2 2 2 2 2 2
No. 2 + 70, (minday) 8.3 9.8 10.7 13.0 +1P (minday) 8.3 9.8 10.7 13.0 Liber (minday) 12.6 14.8 15.2 19.6 Liber (minday) 14.6 1.7 18.8 2.7 Total (minday) 14.6 1.7 18.8 2.7	
8.3 9.8 10.7 13.0 12.6 14.8 15.2 19.7 14.6 17.1 18.8 2.27	3.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 4.2 4.4 3.4 3.4 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2
126 148 162 196	130 24 23 12 00 18 28 21 13 5 01 32 18 37 48 48 45 45 45 55 58 48 48 48 48
146 171 188 227	196 37 35 18 14 27 42 16 38 01 49 27 56 70 73 68 68 68 84 88 73 73
	2.27
Summary table of unit irrigation water requirement	
Aug	Sep
11-13 10-20 Z1-23 20-20 1-3 10-10 11-13 10-20 Z1-23 20-31 1-3 0-10 10-20 Z1-23 Z0-31 1-3 0-20 Z1-23 Z0-23 Z0	0.75 0.57 0.77 0.72 0.72 0.74 0.48 0.54 0.48 0.50 0.74 0.00 0.00 0.00 0.75 0.
(Margarda) 143 170 2.13 2.50 10.04 0.17 0.05 0.140 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	0.70 0.51 0.51 0.57 0.22 0.57 0.54 0.10 0.00 0.05 0.59 0.54 0.00 0.00
	049 031 054 044 022 037 054 024 050 000 076 051 041 075 0.00 0.00
(I/sec/ha) 1.50 1.76 2.09 2.46 0.58 0.54 0.58 0.51 0.43 0.41 0.46 0.38 0.53	0.53 0.31 0.28 0.44 0.40 0.37 0.54 0.24 0.50 0.07 0.58 0.51 0.58 0.75 0.78 0.00 0.00
(keecha) (148 1.80 2.15 2.23 0.54 0.57 0.51 0.43 0.41 0.46 0.38 0.53	0.53 0.34 0.28 0.18 0.40 0.54 0.54 0.24 0.50 0.07 0.65 0.33 0.58 0.92 0.78 0.74 0.00 0.00 0.00
(1/sec/ha) 1.50 1.83 1.98 2.19 0.67 0.60 0.43 0.41 0.46 0.38 0.53	0.53 0.34 0.31 0.18 0.13 0.54 0.72 0.24 0.50 0.07 0.65 0.40 0.40 0.92 0.95 0.74 0.73 0.00 0.00 0.00
(/kec/ha) (1/6c/ha) 1.72 1.95 2.34 0.60 0.52 0.41 0.46 0.38 0.53	0.53 0.34 0.31 0.21 0.13 0.28 0.72 0.42 0.50 0.07 0.65 0.40 0.47 0.74 0.95 0.91 0.73 0.73 0.00 0.00 0.00
(1/sec/ha) (1/sec/ha) (1/sec/ha) (1/sec/ha) (1/sec/ha)	0.53 0.34 0.31 0.21 0.17 0.28 0.45 0.42 0.67 0.07 0.65 0.40 0.47 0.81 0.78 0.91 0.90 0.73 0.74 0.00 0.00
(1/sec/ha) 1.77 2.00 2.16 0.50 0.55 0.38 0.53	0.53 0.34 0.31 0.21 0.17 0.31 0.45 0.15 0.67 0.24 0.65 0.40 0.47 0.81 0.84 0.91 0.90 0.73 0.74 0.00 0.00
(l/sec/ha) (1/49 1.74 1.93 2.14 0.55 0.46 0.53	0.53 0.34 0.31 0.21 0.17 0.31 0.49 0.15 0.41 0.24 0.82 0.40 0.47 0.81 0.84 0.79 0.90 0.90 0.74 0.85 0.00 0.00
148 170 1.91 2.19 0.46 0.61	0.61 0.34 0.31 0.27 0.17 0.31 0.49 0.19 0.41
(secural) (sec	0.01 0.43 0.40 0.10 0.11 0.11 0.31 0.48 0.10 0.44 0.00 0.30 0.37 0.40 0.30 0.30 0.30 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0.00 0.30 0
11.55. 00:1 13:1 03:1 23:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0	2.2.7 0.4.9 0.2.1 0.1.1 0.2.1 0.4.2 0.1.2 0.1.3

		6-10 11-15 16-20 21-25 26-30 1-5 6-10 11-15 16-20 21-25 26-31 1-5 6-10 11-15 16-20 21-25 26-30	6-10 11-15 16-20 21-25 26-31 1-5 6-10 11-15 16-20 21-25
ETo Percolation	(mm/day)	5.3 5.3 5.3 5.3 5.3 5.3 5.0 5.0 5.0 5.0 5.0 5.0 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	4.4 4.4 4.4 4.4 4.4 4.5
After transplanting, B In vegetation, B	_	0.6 0.4 0.4	
In reproductive, β In maturing, β Effective rainfall Overall Irrigation efficiency	(mm/day) 66%	04 0.3 0.3 0.3 0.4 0.4 1.0 1.2 2.2 2.1 2.7 1.9 2.4 2.4 2.2 2.7 3.2 3.2 2.	22 21 36 33 36 30 31 30 33 33 36
1st block			
Land preparation. LP	(mm/day)	9.1 11.9 14.8 17.6	- 1-
colation. Fxm	(mm/day)	1.6 1.8 1.8 1.2 1.2 3.0 3.0 1.0 1.0 3.0 3.0 1.0 1.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	
Consumptive use FToxKc + Px8	(win/day)	76 76 67 67 87 83 87 71 67 79 74 62 62 44	4.2 0.0
FW=ETc + P - ER	(mm/day)	7.3 7.2 5.7 5.6 4.6 6.2 5.6 5.2 4.3 5.5 5.3 3.6 3.0 1.2	
Net field water req FW +LP	(mm/day)	9.1 11.9 14.8 17.6 7.3 7.2 5.7 5.6 4.6 6.2 5.6 5.2 4.3 5.5 5.3 3.6 3.0 1.2	- 1
Unit diversion water requirement	(mm/day)	13.8 18.1 22.4 26.7 11.0 10.9 8.7 8.4 6.9 9.4 8.5 7.8 6.6 8.3 8.0 5.4 4.5 1.8	
Unit diversion water requirement	(l /sec/ha)	1.60 2.09 2.60 3.09 1.28 1.26 1.01 0.97 0.80 1.09 0.98 0.90 0.76 0.96 0.92 0.62 0.53 0.21	- 1
2nd block		-	
Land preparation, LP	mmday	S.1 12.0 14.0 17.0 17.1 17.1 17.2 17.2 18.2 18.2 18.2 18.2 18.2 18.2 18.2 18	c
Percolation, Pariti	(IIIIIIANA)	140 140 140 140 105 105 105 105 105 105 105 105 105 10	0.0
Crop coemicaeni, no	,	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 5
Consumptive use, Elloxic + Pxis	(mm/day)	7.0 7.1 10 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.	1,0
FW=ETC+P-ER	(mm/day)	7.2 6.3 5.0 4.0 4.0 4.0 4.0 4.3 4.3 5.0 5.0 5.0 5.0 5.0	7.7
Net field water reg FW +LP	(mm/day)	91 12.0 14.8 17.5 5.3 5.6 4.6 4.7 5.5 5.4 5.4 5.4 5.7 5.7 5.7 5.0	7
Unit diversion water requirement	(mm/day)	138 16.1 25.4 25.6 10.9 9.5 8.4 5.9 7.1 6.5 9.5 0.5 0.5 0.7 7.2 4.5 4.5 4.5 4.5 4.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	3.0 3.4 0.0
Unit diversion water requirement	(Lisecina)	1.00 Z.10 Z.33 3.00 1.20 1.11 0.37 0.00 0.03 0.13 0.13 0.23 0.33 0.33 0.33	000
and monoton !	/undefamily	ndania 01 110 149 175	
Land preparation, LP	(minuday)	0,1 0, 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1	0
Crop coefficient Ko	(1)	110 110 110 110 100 100 100 100 100 100	0.95 0.95
Consumptive use FToxKc + Px8	(mm/dav)	7.3 7.3 6.7 6.7 6.7 8.3 7.9 6.7 6.7 7.9 7.4 6.2	4.2 4.2
FW=FTc+P-FR	(mm/dav)	63 62 46 47 40 64 55 43 45 52 42 30	2.1 0.5
eld water reg FW +LP	(mm/day)	9.1 11.9 14.8 17.5 6.3 6.2 4.6 4.7 4.0 6.4 5.5 4.3 4.5 5.2 4.2 3.0	3.7 2.1 0.5 0.0
Unit diversion water requirement	(mm/day)	13.8 18.1 22.4 26.5 9.6 9.3 6.9 7.1 6.1 9.6 8.4 6.5 6.8 7.9 6.4 4.5	3.2 0.8
Jnit diversion water requirement	(I /sec/ha)	1.60 2.10 2.59 3.07 1.11 1.08 0.80 0.82 0.71 1.11 0.97 0.75 0.79 0.92 0.74 0.52	0.37 0.10
4th block			
and preparation, LP	(mm/day)	9.1 11.9 14.7 16.5	
Percolation, P×m	(mm/day)	18 18 12 12 12 30 30 18 18 30 30	1.8 0.0 0.0
Crop coefficient, Kc		1.10 1.10 1.10 1.10 1.05 1.05 1.05 1.05	0.95 0.95 0.95
Consumptive use, EToxKc + PxB	(mm/day)	7.3 7.3 6.7 6.7 7.9 7.9 6.7 7.9 7.4	6.0 4.2 4.2
FW=ETc + P - ER	(mm/day)	6.2 5.2 4.7 4.0 4.8 5.5 5.5 4.5 4.0 4.7 4.2	3.9 0.5 0.9
Net field water reg FW +LP	(mm/day)	9.1 11.9 14.7 16.5 6.2 5.2 4.7 4.0 4.8 5.5 5.5 4.5 4.0 4.7 4.2	3.7 3.9 0.5 0.9 0.0
Jnit diversion water requirement	(mm/day)	13.8 18.1 22.2 25.0 9.3 7.8 7.1 6.1 7.3 8.4 8.3 6.8 6.1 7.1 6.3	5.9 0.8 1.4
diversion water requirement	(i /sec/ha)	1.60 2.09 2.58 2.89 1.08 0.91 0.82 0.71 0.84 0.97 0.96 0.79 0.70 0.82 0.73	0.68 0.10 0.16
5th block			
Land preparation, LP	(mm/day)	9.1 11.9 14.0 16.3	
Percolation, P×m	(mm/day)	1.8 1.8 1.2 1.2 3.0 3.0 1.8 1.8 3.0	3.0 1.8 1.8 0.0 0.0
Crop coefficient, Kc		1.10 1.10 1.10 1.10 1.05 1.05 1.05 1.05	95 0.95 0.95 0.95 0.95
sumptive use, EToxKc + PxB	(mm/day)	7.3 7.3 6.7 6.3 7.9 7.9 6.7 6.7 6.7	6.0 6.0 4.2 4.2
FW/ETC + P - FP	(mm/day)	52 53 40 48 40 55 57 40 35 46	39 23 09 06
Not field water rea EW +! D	(mm/day)	01 110 140 163 52 53 40 48 40 55 57 40 35 46	49 39 23 09 06 00
disconsistent senter consistent	(many)	128 180 312 316 78 80 61 72 60 83 87 61 62 70	59 36 14 09
One diversion water requirement	(Innuay)	15.0 10.0 41.2 24.0 7.1 7.3 0.0 0.1 7.3 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	87 0 68 0 41 0 16 0 10
Unit diversion water requirement	(i)secula)	2.00 10.0 0.10 0.00 1.00 40.0 11.0 0.00 10.0 0.10 0.1	2.0
Land preparation. LP	(mm/dav)	9.1 1.5 13.8 15.1	
Percolation P×m	(mm/day)	1.8 1.8 1.2 1.2 1.2 3.0 3.0 1.8 1.8	3.0 1.8 1.8 0.0 0.0
Crop coefficient Ko	,	110 110 110 110 105 105 105	0.95 0.95 0.95 0.95
compliance FTovKc + PvR	Commidant	73 73 67 63 79 70 67 67	72 60 60 42 42
EW-ETC + P - FP	(mm/day)	5 4 48 40 39 57 59 35 34	51 23 27 06 12
Not field water read DA + D	(mm/dev)	01 115 128 151 53 46 48 40 30 57 50 35 34	51 23 27 06 12
Init diversion water requirement	(mm/day)	(38 174 209 20 80 70 73 60 59 87 79 52 52	82 77 36 41 09 18 00
Int diversion water requirement	(capacity)	159 201 242 265 093 081 084 070 069 100 092 061 060	0.89 0.41 0.47 0.40 0.21
			7

Item 7th block			Apr					May			_		ぅ	5		_			₹					1		
h block	<u></u>	1-5 6-10 1	6-10 11-15 16-20	2	-25 26-30	30 1-5	6-10	11-15 16-20 21-25	6-20 2	-25 26-31	31 1-5	6-10	1	11-15 16-20	21-25 2	. 26-30	1-5 6-10	1 1	11-15 16-20	20 21-25	25 26-31	1-5	6-10	11-15	11-15 16-20 21-25 26-3	5 26-3
and preparation, LP	(mm/day)					8.9	11.4	13.0	15.2						- 1	_					-	_				
Percolation, P×m	(mm/day)				İ	_					.8	2 1.2	1.5	3.0		_										
Crap coefficient, Kc	-							1	-	10 1.10	_	I.	-	1	ŀ	⊢		, .		0			1			
Consumptive use, EToxKg + PxB	(mm/dav)					_			l		-		!	7.9	1	-		1		1		-	4			
FW=ETc + P - ER	(mm/day)								ŀ	4.6 5	4.0	3.9	4.2	5.2	4.7	3.4	4.2	5.5	3.5 2.7	7 2.4	4 1.2	1.1	0.0			ļ.,
Net field water red FW +LP	(mm/dav)					00	11.4	13.0	1		5.4 4.0	Į.		5.2	1	-	ļ.				į.	-				i
Init diversion water requirement	(mm/dav)		- Name -		-	13.5	1	1	23.0					7.9	1	-				1	!	-				! !
Unit diversion water requirement	(L/sec/ha)				i	1.57		2.27	1			1.		0.92	1	-	٢			1		-	1			
8th block							ł	1							1	l		1	ı							
Land preparation. LP	(mm/dav)	-					8.9	10.8	13.1	14.4		-			 	-	-		1							
Percolation, P×m	(mm/dav)					-					+	1		į				١.	1	1			(0.0		
Crop coefficient Ko			.	-		L			-	-	╀	1						1.05	1	1	Į.			000		
Consumptive use EToxKo + Px8	(wm/dav)					_					-	1	ì		1				1	t				0.0		
FW=FTC+P-FR	(mm/dav)	Marie				-			-	5	54 46	30	4.2	3.7	47	46	42	43 4	40 3	39 24	4 30	111	12	0.0		
Not fold uniter for DM at D	(maniday)					İ	α	α 01	121	144	┿		1	1.	1		-	1	1		4		1	00		-
Met lield water led I W TET	(monoldon)					+	100	1		- 0	+	-	-	4	4		į.	1	+ -	1	-		4 -	0		-
nit diversion water requirement	(mmoay)					İ	2 .	. -	+		+		- 1	ŀ	1		Ι,	1			. 1		- 1	0 0	. -	
Unit diversion water requirement	(I /sec/ha)		-				8	8	7 67.7	2.55 0.8	0.95	0.09	0/3	0.04	0.07	7 7 7	0 5/13	0	0.0	-	-	2 0.2	17.0	0.00		
9th block		-				-		7.0	-		1			-		1						+				
Land preparation. LP	(mm/day)		.	.		-		ν.	6.01	12.5 15.4	+	- 1	- !	- [- 1			0	,	1	0	0		
Percolation, P×m.	(mm/day)										-	- 1	i	- 1			1.	-	- !				- 1	- 1	0.0	
Crop coefficient, Ko										1	1.1	- 1	- 1	- 1	- 1		- 1	- 1			5 0.9	_1	- 1	- 1	0.00	
Consumptive use, EToxKc + PxB	(mm/day)										ဏ်	- 1		- 1	- 3			- 1			2.	_			0.0	
FW=ETc + P - ER	(mm/day)										_										.6 .				0.0	
Net field water reg FW +LP	(mm/day)										15.4 4.6	6 4.5	4.2	3.7	L	4.6	5.4		2.8	4.3	3.6 3.0	0 2.9	1.2	0.9	0.0	
Unit diversion water requirement	(mm/day)							13.2		,	_							9.9			4.				0.0	
Unit diversion water requirement	(I /sec/ha)								1,91	2,19 2,6					0.54		0.94 0	.76 0.	0.49 0.	0.76 0.63	3 0.52		0.21	0.16	0.00	
Summary table of unit diversion water requirement	reion water	requirement	,																							
and the same of th			Api			F		Ma	,		-			5					F			ŀ		Aug	9	
	1			-		1-5	6-10	11-15	16-20 2	21-25 26-31	-31 1-5	6-10	ı	16-20	21-25	26-30	1-5	6-10 11	11-15 16-20 21-25 26-31	20 21-	25 26-3	31 1-5	9-10	ŀ	11-15 16-20 21-25	25 26-31
1st block	(I /sec/ha)		2.60 3.09	Г.		_					-			0.62												
2nd block	(I /sec/ha)	1.60	2.10 2	۳,						0.98	-	6 0.75	-			0.52 0										
3rd block	(I /sec/ha)		1.60 2.10	.,		_																				
4th block	(L/sec/ha)		-	1.60 2.0	.09 2.5	2.89		ł	ł -		-		l	i							ŀ					
5th block	(I /sec/ha)			٦		_					-											9				
6th block	(I /sec/ha)				1.59	_	1 2.42			1	-	0.69	1	Į.		0.60		0.89 0.	0.41 0.	1	+	-				
7th block	(1 /sec/ha)				-	—				1	_											-				
8th block	(I /sec/ha)						1.56	1.90	2.29 2	2.53 0.	0.95 0.80		0.73	0.64	0.82		0.73 0			0.68 0.42	12 0.52	-	9 0.21	0.00		
9th block	(I /sec/ha)										-	0 0.79							0.49 0.			-		0.16	0.00	
Maximum	(i /sec/ha)	1.60 2.09	2.60	3.09 3.0	.08 3.07	07 2.89	3 2.85	2.65	2.67	.53 2.	6.0 69	7 0.96	1.00	0.92	0.82	0.82		0.97 0.	70	76 0.6	33 0.5	2 0.51	0.21	0.16	0.00	

(mm)

Figures



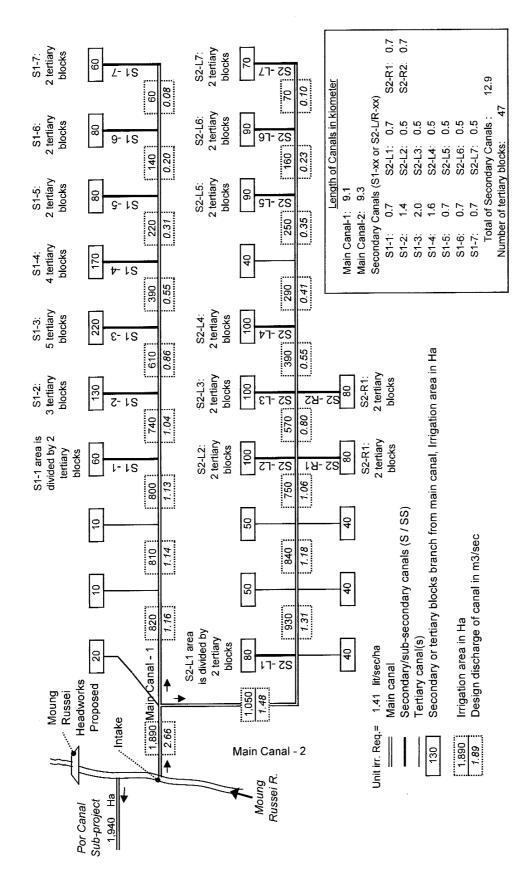


Figure C3-2A Irrigation Area Diagram of Ream Kon Sub-project

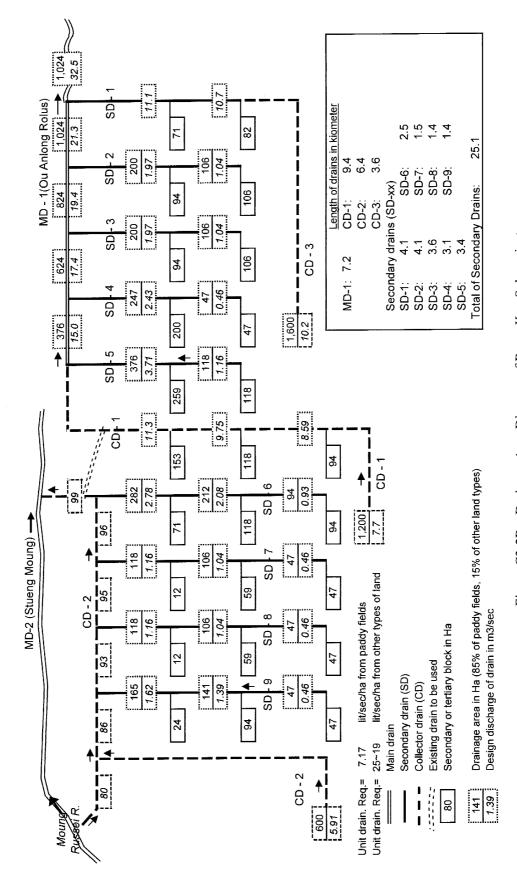


Figure C3-2B Drainage Area Diagram of Ream Kon Sub-project

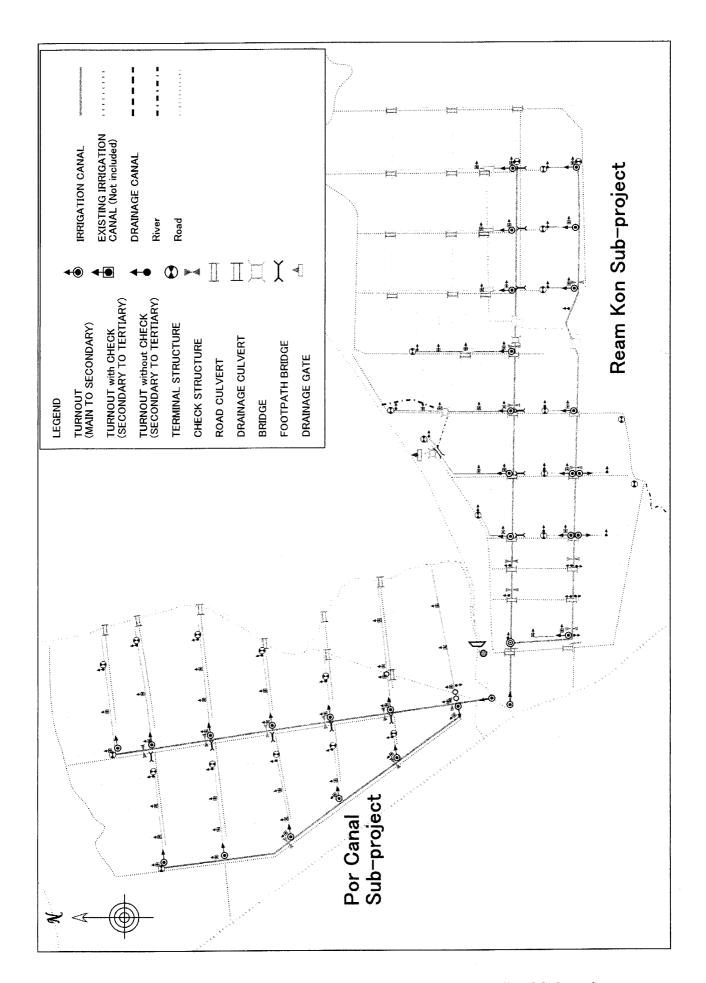


Figure C3-3 Location Map of Structures, Ream Kon and Por Canal Sub-projects

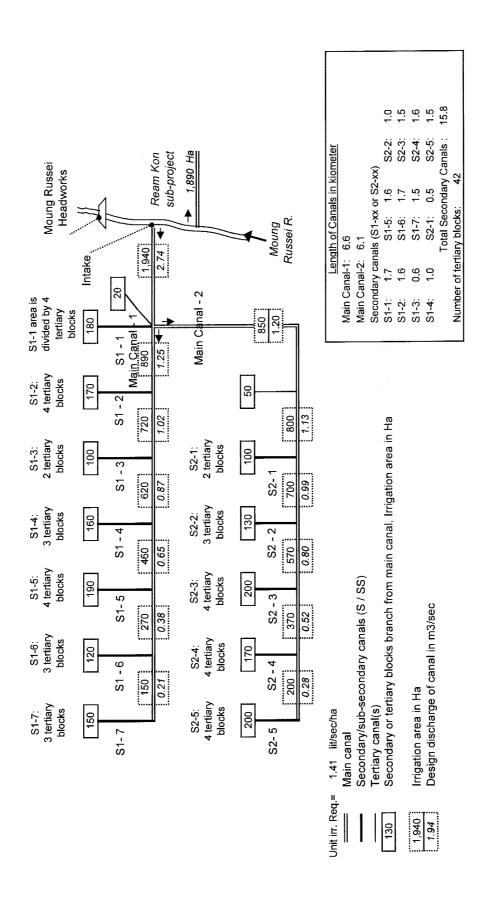


Figure C4-1 Irrigation Area Diagram of Por Canal Sub-project

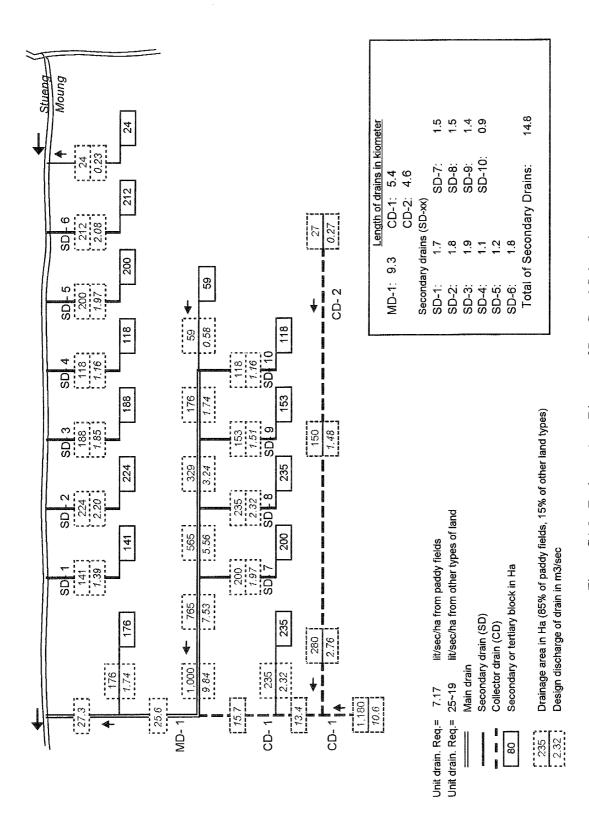


Figure C4-2 Drainage Area Diagram of Por Canal Sub-project

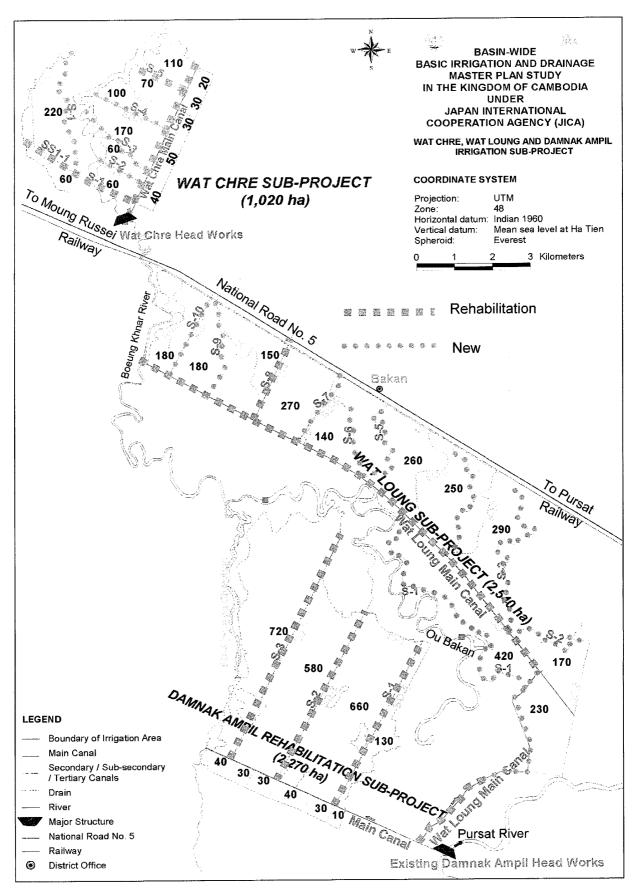


Figure C5-1
Irrigation and Drainage Canal Layout of Damnak Ampil, Wat Loung, and Wat Chre Rehabilitation Sub-projects

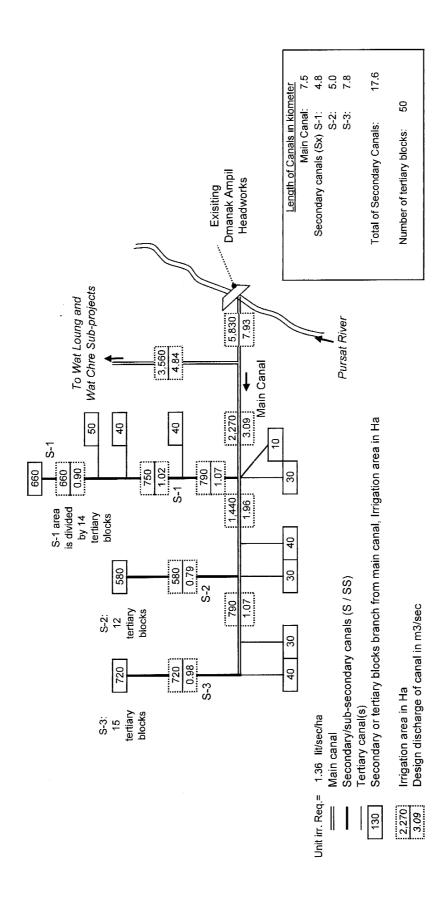


Figure C5-2A Irrigation Area Diagram of Damnak Ampil Rehabilitation Sub-project

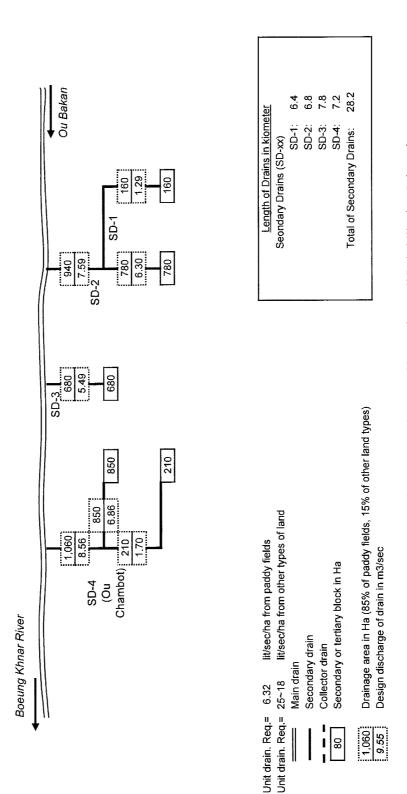


Figure C5-2B Drainage Area Diagram of Damnak Ampil Rehabilitation Sub-project

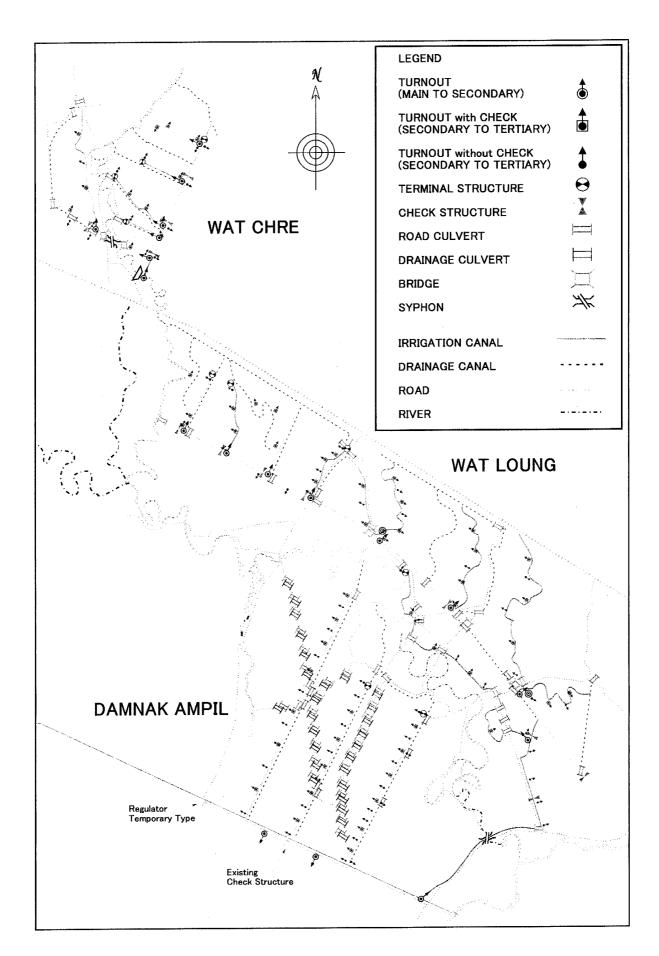


Figure C5-3 Location Map of Structures, Damnak Ampil, Wat Loung and Wat Chre Sub-projects

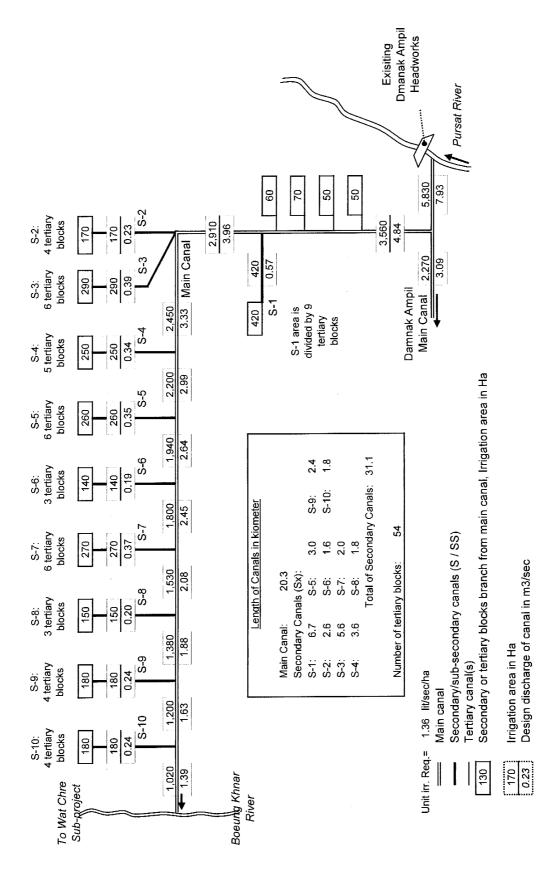


Figure C6-1 Irrigation Area Diagram of Wat Loung Sub-project

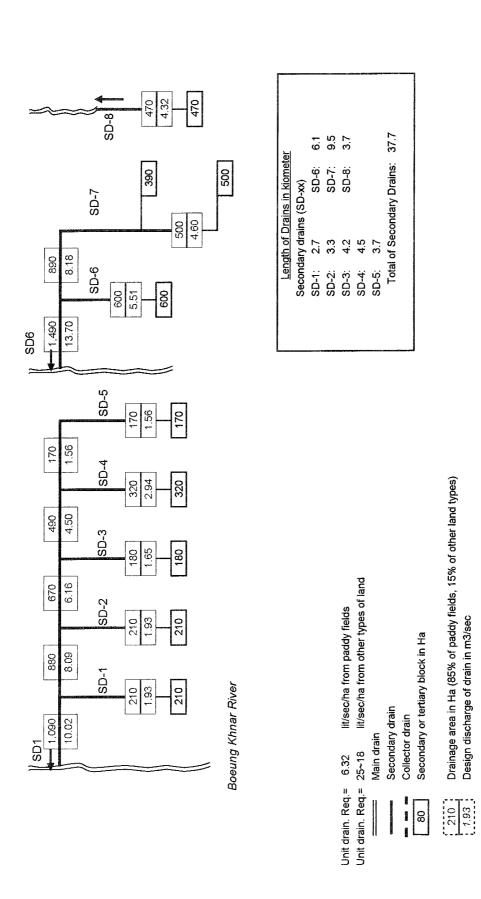


Figure C6-2 Drainage Area Diagram of Wat Loung Sub-project

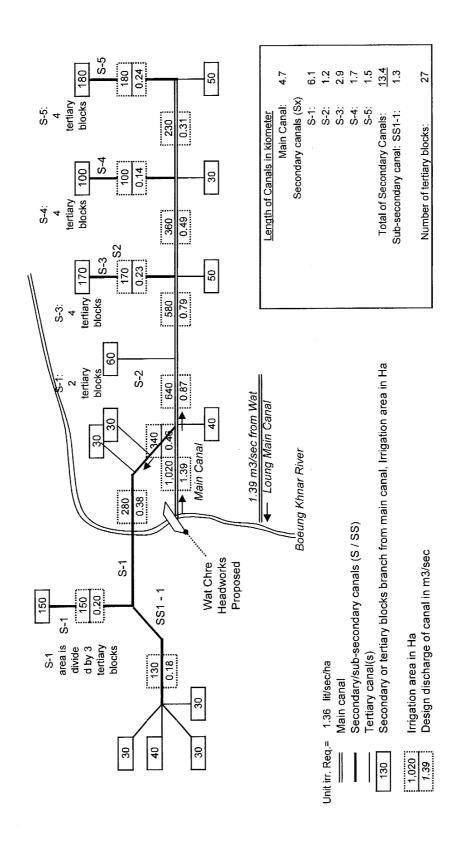


Figure C7-1 Irrigation Area Diagram of Wat Chre Sub-project

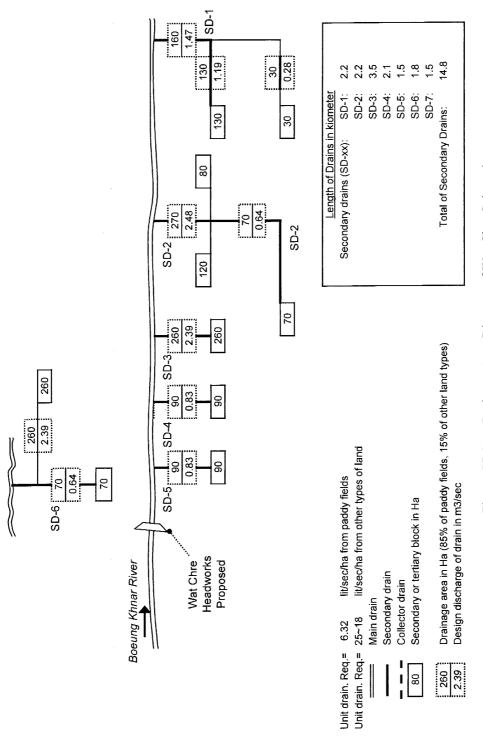


Figure C7-2 Drainage Area Diagram of Wat Chre Sub-project

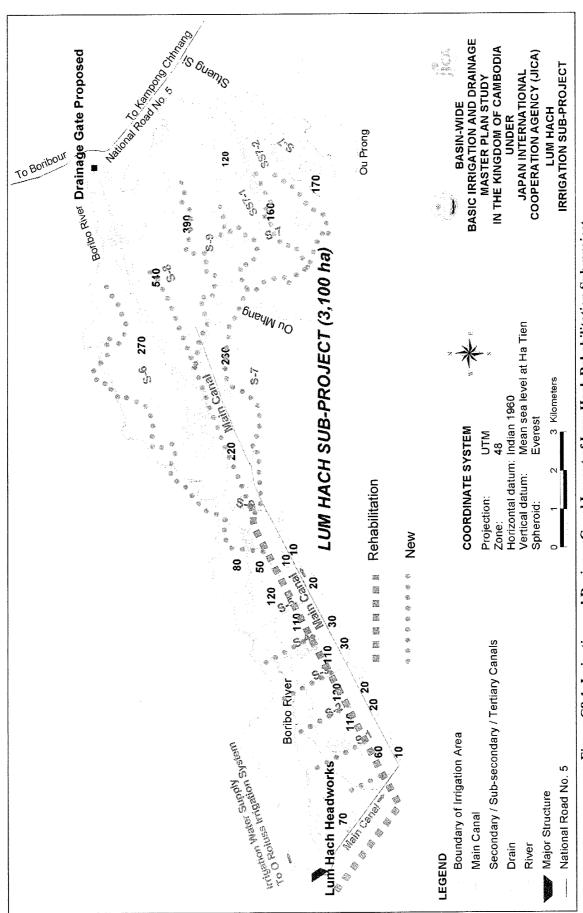


Figure C8-1 Irrigation and Drainage Canal Layout of Lum Hach Rehabilitation Sub-project

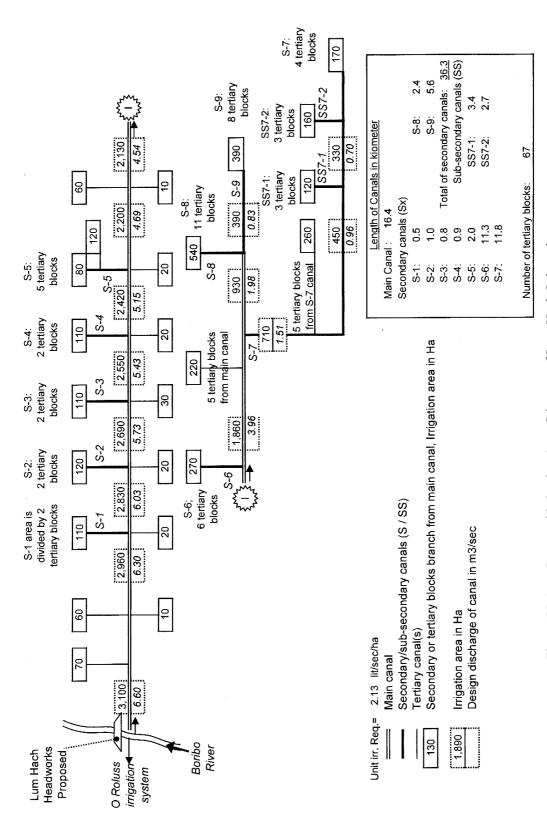


Figure C8-2A Proposed irrigation Area Diagram of Lum Hach Sub-project

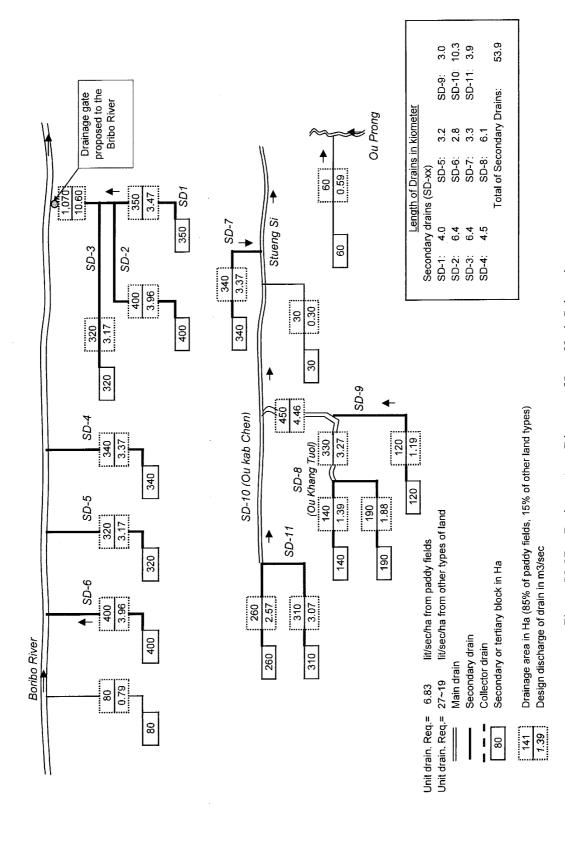


Figure C8-2B Drainage Area Diagram of Lum Hach Sub-project

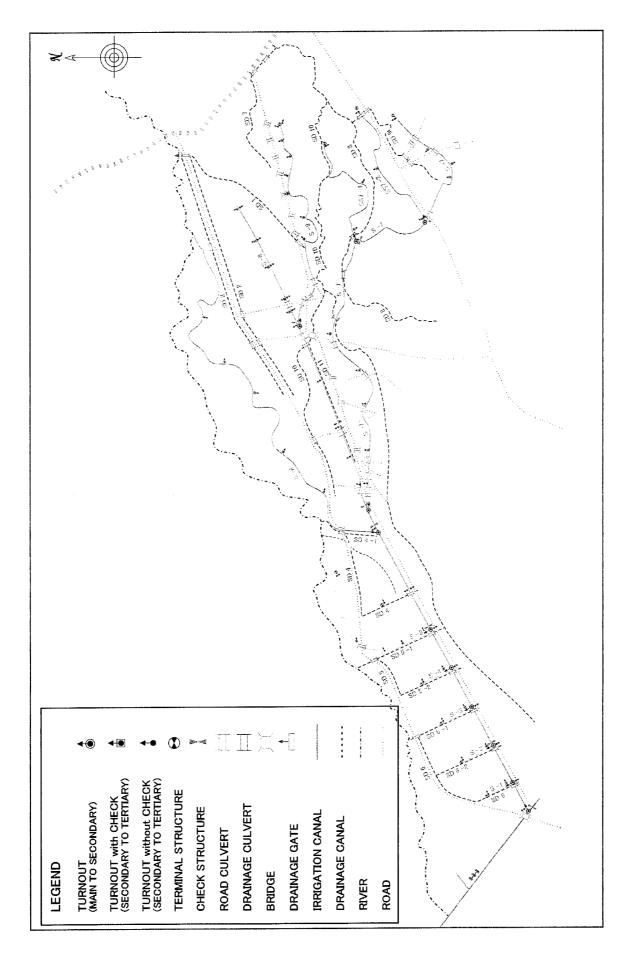


Figure C8-3 Location Map of Structures, Lum Hach Sub-projects



