TABLE E3-20	ANNUAL AVERAGE IRRIGATION AREA IN EACH ALTERNATIVE PLAN	N
	(RESERVOIR CAPACITY: 30.0 MCM)	

	(RESERVOIR	CAPAGI	11	20.0 MCN	U .			
	a na seala di seala Seala di seala di sea Seala di seala di sea							
Alter- Proposed native Cropping	Reservoir	(Dry Irri Inten-	gatio	22 - 1 2 2 A	(Wet Irri Inten-	gation	n) 1 Area	Annual Average Irriga- tion
Plant Intensity (%)	Capacity (MCM)	$\frac{SIU}{(\%)}$	<u>11me</u>	$\frac{Area}{(ha)}$	$\frac{\text{sity}}{(\%)}$	<u> </u>	(ha)	Area (ha)
Case III - 1 170	30.0						127,200	(
	n an ghunn an a	· · · · ·			50	1	2,650	
		: 		rene a su rene	20	2	2,120	
		 			10	1	530	
Average			28	3,710	e e el e l'aget	28	4,730	8,440
Case III-2 180	30.0	80	28	118,720	100 70	İ	121,900 3,710	
an a					45 20	· · · -	2,385 1,060	
Average			28	4,240	5	2	530 4,630	8,870
Case III-3 190	30.0	90	28	133,560	100	23	121,900	
	50.0			100,000	40		4,240	
a tanàn 1990 - Anglandar 1990 - Anglandar Anglandar	an a				20	1	1,060	landa araa Landa araa
a da anti-arresta da anti- arresta da anti-arresta da anti-		en en en En en en en	i din Mari	e na sere sere sere sere sere sere sere ser	0	2	0	en en el L'hanne el
Average			28	4,770		28	4,540	9,310

TABLE E3-21 ESTIMATION OF CROP BENEFITS FOR ALTERNATIVE PLANS

		With Pro	Project			Without Project	
	lst (Dry	lst (Dry Season). Crop	2nd (Wet '	2nd (Wet Season) Crop	Total Net Production		Incremental
Alternative Plan	Cropping ₁ /	Value (1) 2/ Value (1)	Cropping _{1/} Area	Net Production _{2/} Value (2)	Value $(1) + (2) = (3)$	Net Production $\frac{3}{2}$ / Value (4)	Net Production Value (3)-(4)
	(ha)	(106₽)	(ha)	(106P)	(106₽)		
Case I-1	3,180	17.3	4,630	33.2	50.5	8.1	42.4
I-2	3,710	20.1	4,630	53.2	53.3	8.1	45.2
I-3	4,240	23.0	4,470	32.1	55.1	8.1	47.0
Case II-1	3,180	17.3	4.670	33.5	50.8	8.1	42.7
II-2	3,710	20.0	4,640	33.3	53.3	8.1	45.2
11-3	4,240	23.0	4,510	32.4	55.4	s. 1	47.3
11-4	4.550	24.7	4,510	32.4	57.1	8.1	49.0
11-5	4,980	27.1	4,420	31.7	58.8	8.1	50.7
Case III-1	3,710	20.1	4,730	33. 9	54.0	8.1	45.9
III-2	4,240	23.1	4.630	33.2	56.3	8.1	48.2
III-3	4,770	25.9	4,540	32.6	58.5	8.1	50.4
Note;	1/ : See T	See TABLE E3-18 to TABLE	Е Е3-20				

E-57

<u>2</u>/ : See TABLE E3-23 <u>3</u>/ : See TABLE E3-24

			(unit; P ¹ 000)
Alternative Plan	W/Project	W/O Project	Incremental NPV
Case I-1	50,525	8,090	42,435
I - 2	53,316	8,090	45,226
I-3.	55,149	8,090	47,059
Case 11-1	50,812	8,090	42,722
II-2	53,388	8,090	45,298
11-3	55,436	8,090	47,346
II-4	57,111	8,090	49,021
II-5	58,817	8,090	50,727
Case III-1	54,033	8,090	45,943
111-2	56,297	8,090	48,207
111-3	58,535	8,090	50,445

TABLE E3-22

-22 INCREMENTAL NET PRODUCTION VALUES (NPV)

TABLE E3-23

NET PRODUCTION VALUES WITH PROJECT

(unit: P'000) Dry Season Wet Season Alternative Mung-Total bean Peanuts Vegetable Paddy NPV Paddy Corn Plan 1,100 33,225 50,525 Case I-1 12,228 1,467 2,013 492 I-2 14,273 1,712 2,249 574 1,283 33,225 53,316 1-3 16,311 1,956 2,684 655 1,466 32,077 55,149 Case II-1 12,228 1,467 2,013 492 1,100 33,512 50.812 33,297 53,388 14,273 1,712 2,249 574 1,283 11-2 32,364 55,436 11-3 16,311 1,956 2,684 655 1,466 17,502 2,096 2,876 1,571 32,364 \$7,111 I I -4 702 11-5 58,817 19,153 2,299 3,154 770 1,723 31,718 Case III-1 14,273 1,712 2,249 574 33,942 54,033 1,283 1,956 56,297 I I I - 2 16,311 2,684 655 1,466 33,225 2,201 737 32,579 58,535 111-3 18,349 3,020 1,649

Note: Cropping areas of each crops are shown in TABLE 3E-25

TABLE E3-24 NET PRODUCTION VALUES WITHOUT PROJECT

Rainfed paddy fields : 1,780 ha Net Production Values : Wet Season : 1,602 ha x NPV/ha 2,856 P = 4,575 x 10^3 P Dry Season : 1,335 ha x NPV/ha 2,633 P = 3,515 x 10^3 P

Total = $8,090 \times 10^3 P$

TABLE E3-25	CROPPING	AREA O	F EACH CR	OP IN	CROPPING AREA OF EACH CROP IN CASE OF WITH PROJECT	H PROJEC	<u> </u>
				ء 10 ء 10 ء 10 ء			(Unit: ha)
			Dry Season	on			Mat Coscon
		Mung-					Mer Degool
Alternative Plan	Paddy	bean	Peanuts	Com	Vegetable	Total	Paddy
Case I-1	1,704	210	210	210	210	3,180	4,630
I -2	1,989	245	245	245	245	3,710	4,630
2-1 1	2,273	280	280	280	280	4,240	4,470
Case II-1	1,704	210	210	210	210	3,180	4,670
II-2	1,989	245	245	245	245	3,710	4,640
II-3	2,273	280	280	280	280	4,240	4,510
II-4	2,439	300	300	300	300	4,550	4,510
II-5	2,669	329	329	329	329	4,980	4,420
Case III-1	1,989	245	245	245	245	3,710	4,730
111-2	2,273	280	280	280	280	4.240	4,630
III-3	2,557	315	315	315	315	4,770	4,540

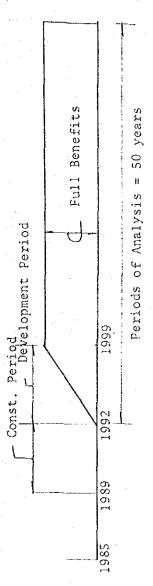
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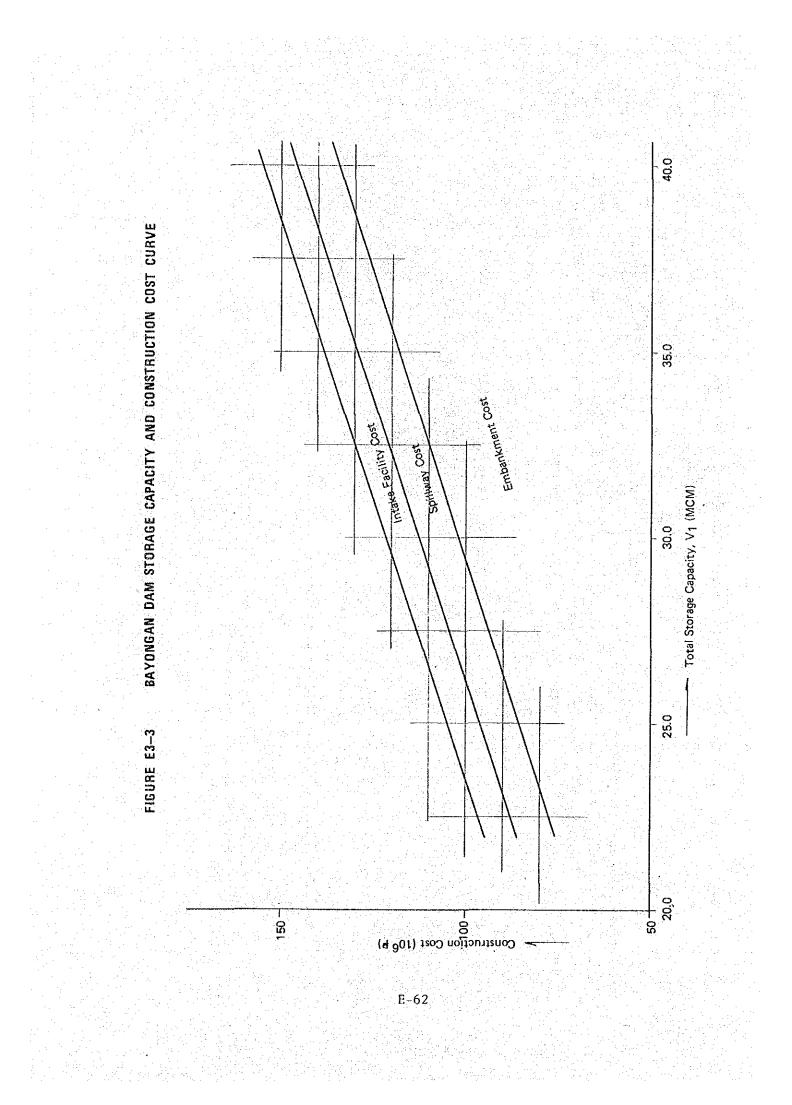
ESTIMATION OF CONSTRUCTION COST FOR ALTERNATIVE PLANS 3,700 147,200 25,200 122,000 102,000 10,900 9,100 79,700 22,400 209.7 25.3,000 III Alternative Plans 139,200 3,700 79,700 10,700 9,300 22,400 25,200 94,000 245,000 203.1 114,000 ŢŢ 79,700 195.6 3,700 25,200 105,000 86,000 8,400 22,400 10,600 30,200 236,000 Present Value of Construction - Intake Facilities L Construction Cost (P'000) 1.4 On-Farm Development 1.1 Preparation Works 1.2.2. Bayongan Dam Embankment 1.2.1. Capayas Dam Spillway Cost (P1000) 1/ Description Total TABLE E3-26 1.3 Canals 1.2 Dam 2

COMPARISON OF PROJECT ECONOMY FOR ALTERNATIVE PLAN OF BAYONGAN DAM

TABLE E3-27

(max.) 1.21 Ratio C.1 . 02 . 0.8 13 1.17 L.06 1.12 1.16 0.05 117 B/C at the year of 1989 corresponding to the starting year of construction, as shown belows; Value (C) 209.7 209.7 195.6 195.6 2.09.7 Present 195.6 203.1 (106P) 203.1 203.1 203.1 203 Present values of benefits and costs are discounted with interest of 10 percent Construction₂/ Cost 236.0 236.0 236.0 245.0 245.0 245.0 245.0 245.0 253.0 253.0 253.0 (106P) Cost Value (B) 205.9 219 4 228.6. 207.3 219 9 237.8 229-5 222.8 233.9 Present 244.6 (106P) 246 1 Net Production 1/ Benefit Value (NPV) 47.0 47.3 49.0 45.9 48.2 42.4 45.2 42.7 45.2 50.7 50.4 (106P) Cropping 8,870 7,810 8,710 8,350. 9,060 9,400 9.310 7,850 8,750 8,440 8,340 Annual (ha) Area see Table E3-26 Reservoir see Table E3-22 Capacity 25.0 25.0 25.0 27.5 275 27.5 27.5 27 5 30.0 30.0 30.0 (MOM) Intensity Cropping 190 160 160 170 200 170 180 170 180 180 190 % Alternative Note; I-2 10 11 11 II-3 II-S III-2 TT-2 11-4 I11-3 11-1 Case III-1 Case Case Plan





CHAPTER IV OTHER WATER BALANCE STUDY

Water Balance Study in Case of Paddy Double Cropping

Water balance studies in case of paddy double cropping were made under the proposed reservoir conditions as shown belows;

- Irrigation Area

4.1

0	Capayas syste	ms :	1,160	ha
Ð	Bayongan syst	ems :	4,140	ha
•	Total	:	5,300	ha

- Reservoir Dimension

	Capayas	Bayongan
° Total storage capacity	2.3 MCM	27.5 MCM
* Effective storage capacity	1.6	22.5

The results of the study are summarized as shown TABLE E4-1, and from the table it is found out that the project makes it possible to supply irrigation water for the area of 5,300 with the cropping intensity of 170 percent, corresponding to the return period of once in five years.

4.2 Water Balance Study with Bayongan Reservoir Only

Two storage reservoirs, Capayas and Bayongan were planned as the irrigation water resources for the Phase II area.

However, additional study of the Bayongan reservoir without the Capayas dam was analyzed for a reference. The reservoir operation study for 28 years was made based on the following criteria;

- Inflow in the reservoir is the runoff from the Bayongan catchment area and surplus water by the Phase I area.

TABLE E4-1

RESULTS OF WATER BALANCE STUDY WITH PADDY DOUBLE CROPPING

		e Water Do Capayas		Avera Water Sh	
Item	System	System	Total	Volume	Time
	(MCM)	(MCM)	(MCM)	(MCM)	(Year)
Cropping Intensity = 16	0%				
1967-1968	44.21	12.51	56.72	-17.09	
1972-1973	35.25	10.00	45.25	-5.42	
1980-1981	36.68	10.39	47.07	-6.50	
1982-1983	36.99	10.49	47.48	-10.39	4
Cropping Intensity = 17	0%				
1958-1959	33.34	9.44	42.78	-1.08	en e
1967-1968	46.52	13.13	59.65	-20.21	
1968-1969	38.49	10.87	49.36	-2.50	den de la composición br>La composición de la c
1972-1973	37.93	10.72	48.65	-7.95	
1980-1981	37.99	10.74	48.73	-6.61	
1982-1983	40.14	11.33	51.47	-13.27	6
Cropping Intensity = 18	0%		na dhina. Marta		di suite Destre dans
1957-1958	41.56	11.77	53.33	-2.63	
1958-1959	35.31	10.02	45,33	-3.65	
1965-1966	42.45	12.02	54.47	-1.72	
1967-1968	48.82	13.80	62.62	-22.73	
1968-1969	40.96	11.60	51.56	-5.31	
1972-1973	40.61	11.51	52.12	-10.55	
1980-1981	39.30	11.13	50.43	-6.72	
1982-1983	43.29	12.26	52.55	-16.78	8

ails are ----Note: Details are presented in TABLE E4-2 to TABLE E4-7.

TABLE E4-2 SUMMARY TABLE OF WATER BALANCE STUDY FOR CAPAYAS DAM WITH PADDY DOUBLE CROPPING

(CROPPING INTENSITY: 160%)

* RESERVOIR CAPACITY 2.34 (MCM) * MAIN CANAL CAPACITY 2.13 (CU.M/S) *

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| | EAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHORTAG
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 DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAG (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) 5-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 0.0 -2.567 7-58 7.736 9.141 8.0087 -2.567 0.0 0.745 0.428 -1.050 9-60 10.083 9.141 8.009 -1.1133 0.0 0.745 0.428 -1.050 11.402 8.436 7.407 -1.030 0.0 0.765 1.450 -1.133 11.402 8.436 7.407 -1.030 0.0 0.765 1.452 -1.1135 12.65 12.659 6.574 -0.884 0.0 0.765 5.058 -2.567 12.655</td><td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FNAPD SPILLAGE SHDRTAGE C(MCM) C(MCM) C(MC) C(MCM) <t< td=""><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE CMCM) CMCM)<!--</td--><td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.7736 9.101 9.087 -0.0 0.765 5.682 -1.051 7-59 10.577 9.1041 8.087 -2.2567 0.0 0.745 0.02 2.2556 7-61 11.402 8.436 7.407 -1.133 0.0 0.7457 0.13028 -1.1353 7-65 11.1402 8.436 7.407 -1.133 0.0 0.7557 -1.050 -1.1353 7-65 11.402 8.436 7.407 -1.133 0.0 0.7657 5.092 -1.051 7-65 11.558 7.158 5.116 0.0 0.768 5.1655 -1.958 <</td><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 7-57 (MCM) (MCM)</td></td></t<><td>FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHDRTAGE 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 7-58 7.736 9.0654 8.081 -0.020 0.0 0.765 -1.051 0.0 7-59 10.577 9.141 8.009 -1.133 0.0 0.765 0.428 -0.2567 7-61 11.402 8.436 7.407 -1.033 0.0 0.726 1.1650 -1.133 7-65 11.402 8.436 7.407 -1.133 0.0 0.726 1.1650 -1.135 7-65 12.659 6.418 7.225 -2.1493 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>FER INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 T44.489 9.286 NITAKE DEM TD MCM) (MCM) (MCM) (MCM) (MCM) 5-57 T44.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-559 10.654 8.087 -0.020 0.0 0.765 5.682 -1.053 9-60 10.083 9.141 8.009 -1.133 0.0 0.428 -2.567 9-61 12.402 0.0 0.765 5.438 7.052 -1.050 0.0 10.667 8.476 7.258 7.1030 0.0 0.765 5.493 -1.1650 -1.1650 11.868 8.847 7.259 0.0 0.765 5.3655 -1.1950 -2.22721</td></td></td> | FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHORTAGE CMCM) CMCM) CMCM) CMCM) CMCM) CMCM) CMCM) CMCM) S=57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7=58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7=58 7.776 9.101 9.081 -0.020 0.0 0.745 0.428 -0.020 7=61 11.402 8.436 7.407 -1.133 0.0 0.745 0.428 -1.050 7=61 11.402 8.436 7.407 -1.030 0.745 0.428 -0.020 1=62 12.873 5.158 5.168 0.0 0.745 0.7035 -1.053 1=62 12.875 5.158 5.168 0.0 0.745 0.208 -1.053 1=62 | FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 0.01 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 0.569 0.0 2.5.567 0.01 0.765 -1.051 10.571 0.01 0.765 0.0269 0.0269 0.0269 0.1133 0.0 0.745 0.25.567 0.0 0.745 0.7266 1.16500 -1.133 0.0 0.7455 0.7266 1.16500 -1.133 0.0 </td <td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHORTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 (MCM) 7.5736 10.654 8.087 -2.567 0.0 0.765 -0.026 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.2567 0.0 -2.2567 0.0 -2.2567 0.0 0.0 -2.2567 0.0 -2.2567 0.0 0.0 -2.2567 -1.133 0.0 -2.2567 -1.133 0.0</td> <td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 5-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-58 7.736 9.101 9.081 -0.020 0.0 0.745 0.428 -1.050 7-61 11.402 8.436 7.407 -1.133 0.0 0.745 0.428 -1.050 7-61 11.402 8.436 7.407 -1.133 0.0 0.745 0.428 -1.050 7-62 12.873 7.407 -1.030 0.745 0.428 -1.050 7-62 12.873 7.158 5.158 0.0 0.756 1.650 -2.2567 -2.256</td> <td>FEAR INFLOW DEMAND INTAKE DEM
 TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE SHDRTAGE<</td> <td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAG (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) 5-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 0.0 -2.567 7-58 7.736 9.141 8.0087 -2.567 0.0 0.745 0.428 -1.050 9-60 10.083 9.141 8.009 -1.1133 0.0 0.745 0.428 -1.050 11.402 8.436 7.407 -1.030 0.0 0.765 1.450 -1.133 11.402 8.436 7.407 -1.030 0.0 0.765 1.452 -1.1135 12.65 12.659 6.574 -0.884 0.0 0.765 5.058 -2.567 12.655</td> <td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FNAPD SPILLAGE SHDRTAGE C(MCM) C(MCM) C(MC) C(MCM) <t< td=""><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE CMCM) CMCM)<!--</td--><td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.7736 9.101 9.087 -0.0 0.765 5.682 -1.051 7-59 10.577 9.1041 8.087 -2.2567 0.0 0.745 0.02 2.2556 7-61 11.402 8.436 7.407 -1.133 0.0 0.7457 0.13028 -1.1353 7-65 11.1402 8.436 7.407 -1.133 0.0 0.7557 -1.050 -1.1353 7-65 11.402 8.436 7.407 -1.133 0.0 0.7657 5.092 -1.051 7-65 11.558 7.158 5.116 0.0 0.768 5.1655 -1.958 <</td><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 7-57 (MCM) (MCM)</td></td></t<><td>FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHDRTAGE 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 7-58 7.736 9.0654 8.081 -0.020 0.0 0.765 -1.051 0.0 7-59 10.577 9.141 8.009 -1.133 0.0 0.765 0.428 -0.2567 7-61 11.402 8.436 7.407 -1.033 0.0 0.726 1.1650 -1.133 7-65 11.402 8.436 7.407 -1.133 0.0 0.726 1.1650 -1.135 7-65 12.659 6.418 7.225 -2.1493 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>FER INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 T44.489 9.286 NITAKE DEM TD MCM) (MCM) (MCM) (MCM) (MCM) 5-57 T44.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-559 10.654 8.087 -0.020 0.0 0.765 5.682 -1.053 9-60 10.083 9.141 8.009 -1.133 0.0 0.428 -2.567 9-61 12.402 0.0 0.765 5.438 7.052 -1.050 0.0 10.667 8.476 7.258 7.1030 0.0 0.765 5.493 -1.1650 -1.1650 11.868 8.847 7.259 0.0 0.765 5.3655 -1.1950 -2.22721</td></td> | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHORTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 (MCM) 7.5736 10.654 8.087 -2.567 0.0 0.765 -0.026 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.567 0.0 -2.2567 0.0 -2.2567 0.0 -2.2567 0.0 0.0 -2.2567 0.0 -2.2567 0.0 0.0 -2.2567 -1.133 0.0 -2.2567 -1.133 0.0 | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 5-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-58 7.736 9.101 9.081 -0.020 0.0 0.745 0.428 -1.050 7-61 11.402 8.436 7.407 -1.133 0.0 0.745 0.428 -1.050 7-61 11.402 8.436 7.407 -1.133 0.0 0.745 0.428 -1.050 7-62 12.873 7.407 -1.030 0.745 0.428 -1.050 7-62 12.873 7.158 5.158 0.0 0.756 1.650 -2.2567 -2.256 | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE SHDRTAGE< | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAG (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) (mCm) 5-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 0.0 -2.567 7-58 7.736 9.141 8.0087 -2.567 0.0 0.745 0.428 -1.050 9-60 10.083 9.141 8.009 -1.1133 0.0 0.745 0.428 -1.050 11.402 8.436 7.407 -1.030 0.0 0.765 1.450 -1.133 11.402 8.436 7.407 -1.030 0.0 0.765 1.452 -1.1135 12.65 12.659 6.574 -0.884 0.0 0.765 5.058 -2.567 12.655 | KEAR INFLOW DEMAND INTAKE DEM TD BAY FNAPD SPILLAGE SHDRTAGE C(MCM) C(MCM) C(MC) C(MCM) C(MCM) <t< td=""><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE CMCM) CMCM)<!--</td--><td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.7736 9.101 9.087 -0.0 0.765 5.682 -1.051 7-59
10.577 9.1041 8.087 -2.2567 0.0 0.745 0.02 2.2556 7-61 11.402 8.436 7.407 -1.133 0.0 0.7457 0.13028 -1.1353 7-65 11.1402 8.436 7.407 -1.133 0.0 0.7557 -1.050 -1.1353 7-65 11.402 8.436 7.407 -1.133 0.0 0.7657 5.092 -1.051 7-65 11.558 7.158 5.116 0.0 0.768 5.1655 -1.958 <</td><td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 7-57 (MCM) (MCM)</td></td></t<> <td>FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHDRTAGE 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 7-58 7.736 9.0654 8.081 -0.020 0.0 0.765 -1.051 0.0 7-59 10.577 9.141 8.009 -1.133 0.0 0.765 0.428 -0.2567 7-61 11.402 8.436 7.407 -1.033 0.0 0.726 1.1650 -1.133 7-65 11.402 8.436 7.407 -1.133 0.0 0.726 1.1650 -1.135 7-65 12.659 6.418 7.225 -2.1493 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>FER INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 T44.489 9.286 NITAKE DEM TD MCM) (MCM) (MCM) (MCM) (MCM) 5-57 T44.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-559 10.654 8.087 -0.020 0.0 0.765 5.682 -1.053 9-60 10.083 9.141 8.009 -1.133 0.0 0.428 -2.567 9-61 12.402 0.0 0.765 5.438 7.052 -1.050 0.0 10.667 8.476 7.258 7.1030 0.0 0.765 5.493 -1.1650 -1.1650 11.868 8.847 7.259 0.0 0.765 5.3655 -1.1950 -2.22721</td> | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE CMCM) CMCM) </td <td>KEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.7736 9.101 9.087 -0.0 0.765 5.682 -1.051 7-59 10.577 9.1041 8.087 -2.2567 0.0 0.745 0.02 2.2556 7-61 11.402 8.436 7.407 -1.133 0.0 0.7457 0.13028 -1.1353 7-65 11.1402 8.436 7.407 -1.133 0.0 0.7557 -1.050 -1.1353 7-65 11.402 8.436 7.407 -1.133 0.0 0.7657 5.092 -1.051 7-65 11.558 7.158 5.116 0.0 0.768 5.1655 -1.958 <</td> <td>FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 7-57 (MCM) (MCM)</td> | KEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 6-57 14.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.7736 9.101 9.087 -0.0 0.765 5.682 -1.051 7-59 10.577 9.1041 8.087 -2.2567 0.0 0.745 0.02 2.2556 7-61 11.402 8.436 7.407 -1.133 0.0 0.7457 0.13028 -1.1353 7-65 11.1402 8.436 7.407 -1.133 0.0 0.7557 -1.050 -1.1353 7-65 11.402 8.436 7.407 -1.133 0.0 0.7657 5.092 -1.051 7-65 11.558 7.158 5.116 0.0 0.768 5.1655 -1.958 < | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 7-57 (MCM) (MCM) | FEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY EVAPO SPILLAGE SHDRTAGE 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 5-57 T4.489 9.286 8.235 -1.051 0.0 0.765 -1.051 0.00 7-58 7.736 9.0654 8.081 -0.020 0.0 0.765 -1.051 0.0 7-59 10.577 9.141 8.009 -1.133 0.0 0.765 0.428 -0.2567 7-61 11.402 8.436 7.407 -1.033 0.0 0.726 1.1650 -1.133 7-65 11.402 8.436 7.407 -1.133 0.0 0.726 1.1650 -1.135 7-65 12.659 6.418 7.225 -2.1493 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | FER INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 T44.489 9.286 NITAKE DEM TD MCM) (MCM) (MCM) (MCM) (MCM) 5-57 T44.489 9.286 8.235 -1.051 0.0 0.763 5.682 -1.051 7-58 7.736 10.654 8.087 -2.567 0.0 0.765 5.682 -1.051 7-559 10.654 8.087 -0.020 0.0 0.765 5.682 -1.053 9-60 10.083 9.141 8.009 -1.133 0.0 0.428 -2.567 9-61 12.402 0.0 0.765 5.438 7.052 -1.050 0.0 10.667 8.476 7.258 7.1030 0.0 0.765 5.493 -1.1650 -1.1650 11.868 8.847 7.259 0.0 0.765 5.3655 -1.1950 -2.22721 | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHDRTAGE 6-57 (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) (MCM) 5-57 14.489 9.286 8.255 -1.051 0.0 0.765 5.682 -1.051 7-58 7.736 10.654 8.087 -0.020 0.0 0.765 5.682 -1.051 7-58 7.736 9.141 8.009 -1.133 0.0 0.765 0.428 -1.050 -1.050 7-59 11.402 8.436 7.407 -1.030 0.0 0.765 0.4292 -1.050 1-65 12.873 5.158 7.559 6.5148 -2.251 0.0 0.765 1.050 -1.050 5-65 11.662 8.478 -1.133 0.0 0.766 5.682 -1.050 5-65 11.662 8.748 7.525 -2.493 0.00 0.7055 | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORTAGE 6-57 T44.489 9.286 8.235 -11.051 (MCM) (MCM) (MCM) 5-57 T44.489 9.286 8.235 -11.051 0.0 0.763 5.682 -11.051 7-58 7.736
10.657 9.101 9.081 -0.020 0.0 7.653 5.682 -11.051 7-56 9.1014 9.081 -2.567 0.0 0.765 0.428 -2.567 7-55 9.1011 9.083 -1.133 0.0 0.765 1.052 -1.053 7-65 11.402 8.436 7.407 -1.133 0.0 0.765 1.052 -1.053 7-65 10.6672 9.444 8.098 -1.133 0.0 0.768 6.332 -1.053 7-65 10.6672 9.444 8.79 -1.133 0.0 0.768 6.332 -2.255 | FER INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORMS 6-57 14:489 9.286 8.235 -11.051 0.0 0.765 5.682 -11.051 7-58 7.736 10.654 8.087 -21.667 0.0 0.765 5.682 -11.051 7-59 10.577 9.1001 9.081 -0.020 0.0 7.455 -10.051 7-61 114.402 8.087 -1.053 0.0 0.745 0.428 -10.051 7-65 10.654 8.087 -1.033 0.0 0.745 0.428 -10.051 7-65 11.402 8.454 6.418 -1.033 0.0 0.745 5.092 -1.035 7-65 16.062 8.454 6.418 -2.225 0.00 5.158 -1.056 5.168 -1.056 -2.225 7-65 16.0622 8.444 6.418 -2.2254 0.105 0.556 | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPD SPILLAGE SHORM CMCMN CMCMN< | FEAR INFLOW DEMAND INTAKE DEM TD BAY FR BAY EVAPO SPILLAGE SHORMS (MCM) (MCM) | FEAR INFLOW DEMAND INTAKE Dem TD BAY EVAPO SPILLAGE SHORTAGE 5-57 141-489 9-286 8.235 -11.051 0.0 -5567 -10.051 5-57 141-489 9-286 8.235 -11.051 0.0 -5567 -0.00 0.569 0.0 -2567 -10.050 5-57 141-489 9.1081 -2.567 0.0 0.765 5.682 -11.051 5-56 10.083 9.141 8.087 -2.567 0.0 0.765 5.092 -10.556 5-515 9.141 8.0087 -1.050 0.0 0.765 5.092 -1.1050 5-65 11.402 8.445 7.407 -1.050 0.0 0.765 5.092 -1.1353 5-66 11.1668 8.489 6.418 7.225 0.0 0.765 5.092 -1.1353 5-66 11.868 8.449 5.168 -1.158 0.205 0.2265 -1.4953 | YEAR INFLOW DEMAND INTAKE DEM TO BAY FR BAY FR BAY FR BAY MCMN MCMN <thmcnn< th=""> <thmcnn< th=""> <thmcnn< th=""></thmcnn<></thmcnn<></thmcnn<> |

SUMMARY TABLE OF WATER BALANCE STUDY FOR CAPAYAS DAM WITH PADDY DOUBLE CROPPING TABLE E4-3

I70%)

(CROPPING INTENSITY:

SHORTAGE -2.413 -2.721 -1.491 -1.051 -4.810 -2.008 -1.108 CMOMO -3-144 -1.696 -0.364 -0-177 -1-140 -1-293 -0.884 -3.090 3.037 -1.540 -3.061 -3-654 -1.512 -2.225 -6-165 -1-991 100 7--6.39 0.0 0:0 0 0 SPILLAGE 5.408 6.704 2.960 2.183 0.638 7.189 5.274 4.921 2.006 1.694 (MCM) 2.996 8.771 0.424 0.989 3.298 3.650 L.028 2.574 0.112 1.122 4.175 .197 5.011 2.307 4-225 0.181 0.0 2.134 (MCM) 2.13 (CU.M/S) (MCM) 0.780 0.730 0.657 0.763 0.476 0.536 0.635 0.550 0.395 0.749 0.731 0.708 0.591 0.523 0.692 0.798 0.653 0.869 0.551 0.774 0.660 0.685 0.676 0.481 EVAPO CAPACITY CAPACITY C M C M C FR BAY 0-0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0-0 0.0 0.0 0.0 0 0.0 0.0 0...0 0 0.0 0 DEM TO BAY MAIN CANAL RESERVOIR (MCM) -1.540 -1.051 -3.144 -1.293 -3.090 -2-22 -2.413 -6 165 3 037 1.696 -4.810 -2-008 -1-991 -0-364 -1.108 -1.140 -0.884 -1.491 3.654 -1-512 -4.007 -2.721 -3.061 -0-177 0.0 0.0 0.0 -6.39 7.153 8.027 7.621 8.384 7.729 7.729 7.853 7.069 6.753 9.084 6.517 5.658 9.355 7.458 INTAKE 9.450 8.606 7.534 7.270 5.491 7 280 (MCM) 8.656 8.133 7.379 777 5 308 5.491 7.953 10.360 8.978 9.861 7.650 11.497 9.238 13.317 11.064 8 384 9 220 6.813 8.487 7.458 0.934 0.289 9.627 8.828 DEMAND 9.745 9.316 0.907 0.99.7 CMCMO 202.6 68-01 9 315 1.277 1.522 12.873 13.584 13.584 10.672 16.062 9.631 9.631 7.950 7.950 13.701 11.379 12 327 9.595 16.134 10.317 11.484 9.181 8.438 8.585 I'N F-LOW 7.736 9.609 12 190 (MCM) 4.489 10.577 0.083 1.402 8.881 6.534 9.754 YEAR 57-58 58-59 67-68 56-57 64-65 66-67 69-70 71-72 72-73 73-74 75-76 72-77 78-79 79-80 80-81-81 81-81 82-81 60-61 70-71 82-83 65-66 68-69 59-60 61-62 62-63 63-64 74-75 83-84

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(CROPPING INTENSITY: 170%)

SUMMARY TABLE OF WATER BALANCE STUDY FOR BAYONGAN DAM WITH PADDY DOUBLE CROPPING

TABLE E4-6

RESERVOIR CAPACITY 27.50 (MCM) MAIN CANAL CAPACITY 2.13 (CU.M/S)

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UNITECMCMD

0.0 3.434 49.820 15.890 47.200 0.0 42.760 33.314 9.102 33.284 25.160 36.572 2.086 10.544 47.090 16.179 46.5555 26.435 13.798 25.860 13.094 21.417 4.775 44.165 SPILL 0.0 0.0 0.0 -1.082 20.210 -2.504 0.0 0.0 0.0 -1.843 6.606 3.267 SHORT 00 0 0.0 0 0 0.0 0 0 0 0.0 0.0 00 00000 0.0 0.0 LOSS 0 0.0 00 00.00 00 0.0 0.0 0.0 0.0 00 0-0 0.0 00.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0.0 0 ö 4.789 - 589 .088 .139 - 405 . 588 - 844 1.69.4 4.4.98 4.363 4.317 3.349 4.718 4.583 4.858 4.690 4.596 4.478 4.816 4.115 4.961 4.629 4.77.8 4.485 4.489 2.900 4.683 EVAPO 28.898 33.374 INTAKE 33.619 ŝ 32.436 34.908 18.560 34.656 52.470 34 667 31 771 59-053 33.227 42.435 36.180 59.406 3-644 50.376 41.300 55.040 37.225 56.209 28 234 39.021 53.925 54.794 28.251 5 - 594 42.37 53 31 39.053 52.680 41.525 41.646 37.225 TOTAL 34.908 42.378 33.518 28.234 34 656 35.461 34.667 51.771 18.560 42.435 53.925 28.898 3.374 42.740 36.180 28.251 9.406 23.644 0.376 41.300 25.594 5.6.209 46.53 M A N D CAPAYAS 1.293 2.225 2.722 3.038 1.696 .490 2.008 266.1 1.540 3.061 .513 1.051 0.884 3.089 . 654 -007 2.178 3.143 0.177 1.140 2.4.12 6.164 4.810 1.108 5.393 0.0 0.0 0.0 ш 33.616 39.235 33.341 33.341 33.768 30.478 18.560 27.350 35.964 31.002 40.023 31.934 46.516 38.487 32.229 28.898 31.884 37.866 23.280 29.268 38.239 25 594 37 992 35 712 40.142 32.202 IRRIGAT. 33.283 26.259 34.172 0 1111 1111 V 47.718 64.056 50.858 86.075 73.569 75.113 30.836 43.511 8.378 56.639 122.62 62.850 63.788 59.270 44 510 82.763 52.089 69.923 43.368 3.893 63 776 49.819 TOTAL 70-494 37.032 34.841 47.167 76 07 8.247 3 N F L O MALINAO Ó 61.438 23.815 33.697 35.144 46.071 41.951 48.977 42-222 64.425 38.862 29.693 26.229 35.400 38.916 58.510 69.986 52.912 59.324 51.358 61.803 52.280 54.757 41.962 52-996 63.825 56.660 34.825 59.01 9.867 15.346 8.856 11.144 7.339 8.612 8.907 12.782 10.599 7.968 11.492 6.118 9.236 3.675 7.021 9.814 9.366 11.978 9.031 7.857 15.382 10.292 10.569 11.496 .0.864 8.251 C.AREA 57-58 58**1**59 61-62 62-63 63-64 64-65 65-66 67-68 69-70 70-71 71-72 74-75 75-76 77-78 78-79 79-80 2-83 3-84 60-61 1-82 YEAR 66-67 68-69 59-60 80-81 56-57 A.V.E. ¥

WATER BALANCE STUDY FOR BAYONGAN DAM WITH PADDY DOUBLE CROPPING	(CROPPING INTENSITY: 180%)	C C C C E E E E E E E E E E E E E E E E	<pre>> < D E M A N D> IRRIGAT. CAPAYAS TOTAL INTAKE EVAPO LOSS SHORT SPIL</pre>	3 35.189 1.051 36.240 36.240 4.566 0.0 0.0	5 41.561 3.802 45.363 42.729 4.255 0.0 -2.633 1.8	r 35,308 0.721 36.029 32.379 3.958 0.0 -3.650 0.0) 36.024 1.590 37.614 37.614 5.321 0.0 0.0	31.943 1.584 33.527 33.527 4.629 0.0 0.0	4 19.803 0.0 19.803 19.803 4.837 0.0 0.0	3 28.822 0.884 29.706 29.706 4.704 0.0	9 38.362 3.745 42.107 42.107 4.867 0.0 0.0	r 32.250 2.225 34.475 34.475 4.808 0.0 0.0 45.9	3 42.451 3.055 45.508 43.789 3.527 0.0 -1.717 0.0	5 33.238 2.722 35.960 35.960 4.468 0.0 0.0	2 48.824 6.790 55.614 32.883 3.949 0.0 -22.730 0.0	1 40.962 3.475 44.437 39.128 4.210 0.0 -5.309 0.0	8 34.166 2.214 36.380 36.380 4.497 0.0 0.0	5 30.638 0.0 30.638 30.638 4.657 0.0 0.0 39.0	3、 33.665 1.784 35.449 35.449 4.769 0.0	8 40.608 5.506 46.114 35.566 2.883 0.0 -10.548 8.0	0 36.015 2.332 38.347 38.347 4.635 0.0 0.0	3 27.286 1.992 29.278 29.278 4.710 0.0	7 39.787 1.925 41.712 41.712 41.72	6 24.4// 0.500 24.9// 24.9// 24.4// 4.019 0.0	8 31.075 1.176 52.251 32.251 4.640 U.U V.V	9 40.638 3.700 44.338 44.338 4.976 0.0 0.0 <u>12.9</u>	8 27.327 0.135 27.462 27.462 4.509 0.0 0.0	9 39.300 3.781 43.081 36.358 4.468 0.0 -6.725 452 5.5	4 38.105 2.043 40.148 40.148 4.117 0.0 0.0 10.0 10.1 	3 43.293 / 202 50.595 33.808 2.025 9.94 TIO.//O	7 33.076 4.007 37.083 37.083 4.681 0.0 0.0 45.	0 35.150 2.501 37.651 35.150 4.437 0.0 -2.503 19.9
DAM WITH	(: 180%)	27.50 (MCM 2.13 (CU.	> DTAL INTAK		.363 42.72	.029 32.37	.614 37.61	527 33.52	803 19 80	.706 29.70	.107 42.10	475 34.47	.506 43.78	.960 35.96	.614 32.88	.437 39.12	.380 36.38	.638 30.63	.449 35.44	.114 35.56	.347 38.34	278 29 27	.712 41./1	して 、 、 、 、 、 、 、 、 、 、 、 、 、	 ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・マーム ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・ママ・	.338 44.33	.462 27.46	.081 36.35	-148 40-14	00.00 20.00	-083 37-08	K51 35 15
FOR	ы На С	IR CAPACIT NAL CAPACIT	M A N D CAPAYAS T	1.051 36	802 45	.721 36	590 37	584 33	.0	.884 29	.745 42	-225 34	.055 45	-722 35	790 55	475 44	-214 36	.0	-784 35	.506 46	.332 38	.992 29	-925 41	, 000 10 10	-176 52	-700 44	.135 27	.781 43	-043 -043	- 202 -	37	4 7 10 2 4
BALANCE	CROP	A R R R R R R R R R R R R R R R R R R R	<pre>< D IRRIGAT.</pre>	35.18	41.56	35.30	36.02	31.94	19 80	28.82	38.36	32.25	42.45	33.23	48.82	40-96	34.16	30.63	33.66	40-60	36.01	27-28	39.78	24-4	31-07	40.63	27.32	39.30	00000000000000000000000000000000000000	43.29	33-07	75.75
SUMMARY TABLE OF W				128 75.11	315 30.83	597 43.51	144 44.51	071 56.63	516 70.49	986 82.76	222 52.08	425 79-77	362 47.71	912 64.05	593 37.03	229 34.84	951 50.85	293 86.07	324 69.92	400 43.36	358 62-85	803 73.89	91.6 47.16	280 63.77	757 63.78	962 -49.81	996 68.37	825 73 56	660 67-52	825 40 94	011 78.24	
E4-7				675 61	7.021 23	814 33	.366 35	0.569 46	1.978 58	2.777 69	9.867 42	-346 64	8.856 38	.144 52	7.339 29	.612 26	.907 41	2.782 73	-599 59	7.968 35	1.492 51	2.090 61	8.251 38	1-496 52	9.031 54	7.857 .41	5.382 52	9.744 63	.864. 56	.118 34	.236 69	
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E-70

- Outflow is irrigation water demand for the area of 5,300 ha with cropping intensity of 180% for the whole area.

The results of water balance study are summarized in TABLE E4-8. As is seen in the table, the required reservoir capacity to meet the design year with return period of about five years as much as possible is 34.0 MCM, which is the maximum size from the topography at the damsite. Even in this size, 10 years of water shortage will occur during 28 years.

Following table indicates the cost comparison in case of with and without Capayas dam.

	Item	With Capayas Dam	Without Capayas Dam
1.	Reservoir Capacity		
	Bayongan Dam	27.5 MCM	34.0 MCM
	Capayas Dam	2.3 MCM	
2.	Water Shortage		
	No. of Shortage Year	5 times	10 times
	Shortage Volume/Year	3.0-18.7 MCM	0.9-23.4 MCM
3.	Construction Cost (10 ⁶ F)	
	Dam and Reservoir	143.0	164.0
	Irrigation Canal	80.0	84.0
	Total	223.0 (100)) 248.0 (111)

Comparison with and without Capayas Dam

It is cleared that the project plan with Capayas dam is more recommendable from the following reasons;

- Economical construction cost,

- Effective utilization of available water sources of about 6.0

MCM from the Capayas catchment area,

- Stabilized water supply without so frequent water shortage, and

- Adequate reservoir operation without frequent carry over of reservoir storage capacity.

TABLE E4-8RESULTS OF WATER BALANCE STUDY WITH BAYONGANRESERVOIR ONLY (Cropping Intensity : 180%)

	신 전 전 등 것 있었어. [1] 문화 프로그램 관계 전통	Total Stora	ge Capacity	불법이 가지 않는 것이다. 이 가지 않는 것이 하지 않는
Item	27.5 MCM	30.0 MCM	32.0 MCM	
1. Dam Dimension				
N.W.L.	50.0	50.9	51.6	52.2
Top of Dam Elevation (m) 53.0	53.9	54.6	55.2
2. Water Balance Study				
2-1 Cropping Area				
Dry Season	4,240	4,240	4,240	4,240
Wet Season	5,300	5,300	5,300	5,300
Total	9,540	9,540	9,540	9,540
2-2 Water Demand				
Average Year	42.1	42.1	42.1	42.1
Shortage Year	39.1-58.4	39.1-58.4	40,1-58.4	40.1-58.4
2-3 Water Shortage				
No. of shortage Year	14	11	10	10
Shortage Amount/Year	0.8-26.9	0.8-26.6	0.9-25.1	0.9-23.4
3. Construction Cost (10 ⁶ P)			
Bayongan Dam	151.0	163.0	173.0	185.0
Canal <u>1/</u>	76.0	76.0	76.0	76.0
Total	227.0	239.0	249.0	261.0

Note: <u>1</u>/: Inclusive of construction costs of 4×10^6 pesos for crossing structures (conduit) at Bayang river.

SUMMARY TABLE OF WATER BALANCE STUDY WITH BAYONGAN RESERVOIR ONLY

TABLE E4-9

(CROPPING INTENSITY: 180%)

* RESERVOIR CAPACITY 27.50 CMCM)
* MAIN CANAL CAPACITY 2.13 (CU.M/S)

UNIT=CMCM)

MALINAO
3.815 30.836 48.6
3.697 43.511 40.5
5.144 44.510 42.0
6.071 56.639 38.
8.516 70.494 2
9.986 82.763 34
2.222 52.089 44
4.425 79.771 39
8.862 47.718 5
2-912 64-056 41
9.693 37.032 58
6.229 34.841 49
1.951 50.858 40
3.293 86.075 3
9.324 69.923 4
5.400 43.368 4
1.358 62.850 4
1.803 73.893 3
8-916 47.167 4
2.280 63.776 3
4.757 63.788 3
1.962 49.819 4
2.996 68.378 3
3.825 73.569 4
5.660 67.524 4
4.825 40.943 5
9.011 78.247
48.977 59.270 42.

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			· · · ·	(CROPP	ING INTENSITY	SITY: 180	(%)				
				* RESERVO. Main Can	IR CAPA NAL CAPA	CITY 30. CITY 2.	00 (MCM) 13 (CU.M)	/S /	H T N N N	смсму	
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7-5	7.02	3.81	0.83	8.69	1	8.69	1.80	20 6 1	10 10 10	. 89	.
1	80	3.69	ч 5 ,	.97	0.0	40.973	6.09		Γ,	-4.880	0.0
9-6	36	5.14	4.51	2.08		2.08	1.07	• 36	~ 0	5	8 A.
0-0	0.56	6.07	6.63	8.98	1	8.98	8.98	. 93	06 ') I.	B.
1-0	1.97	8.51	0.49	4.62	: ` ∙,	4.62	4.62	8.2	0.6	•	2.14
2-0	2.77	9.08	2.76	4.88		4 88	4.83	- 73	00 00	<u>ه د</u>	•
3-0	9.86	2.22	2.08	4.43	•	4.43	4.43	5	6.	•	M - 1 M
4-6	4 M .	4.42	9.77	9.14	ંગ	9.14	9.09	. 65	.87	•	0.27
5	8.85	8.86	12.5	0.23		0.23	3.26	0.2	.77	.97	0
6-6	1.14	2.91	4.05	1.28	_ ` •	1.28	1.28	м 7	06	1	90 Q
7-6	7.33	9.69	7.03	8.37		8.37	1.72	5 7	52	6.64	ं
8-6	. 61	6.22	4.84	9.59	•	9.59	8.05	83	77.		٠.
2-5	06	ы 0 с	0.85	0.07	5 ° • 1	0-07	9.24	30	°. 0	8.9	0
2-0	2.78	3.29	6.07	6.41	•	6.41	6.41	. 67	06.	•	M S S
7-7	0.59	9.32	9.92	0.06		0.06	0.06	. 77	06.		8.38
2-7	.96	5 40	3.36	7.70	•	7.70	7.11	34	5	<u>_</u>	6.10
<u>г</u> М	1.49	1.35	2.85	2.71		2.71	2.71	ы Ч	.90	÷,	М1
4-7	.09	1.80	З З С	4.50		4.50	4.50	80	6.	÷.	6.0.9
5-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8.01	7.16	8.31	. •	8.31	8.31	23	06-	0.0	Ś
6-7	40	2.28	3.77	0.31		0.31	0.31	ŝ	6 .	. e	5.98
7-7	9.03	4.75	3.78	7.19	ું.	7.19	7.19	м 8 М	. 90	•	5.5
∧ - 0 0	۲ 80	1.96	9.81	8.37	<u> </u>	8.37	8.37	7.6	06.		1.01
8 1 6	ю М	2.99	С М 1	3.65		3.65	3.65	46	0 6		4 - 12
0-0	9.74	3 .82	3.56	8.75		8.75	0.20	.33	- 82		3.29
1 1 00	.86	6.66	7.52	2.57	1	2.57	2.57	58	. 90		40.
2	6.11	4.82	76-0	1.69	ĴФ,	1.69	3.89	8	46	•	. (e
З – 8 М	23	9.01	8.24	1.32		1.32	1.32	• 64	°.	÷.	- <u>0</u> 1
	10 292		1 0				38 702	7327	0 851		15 735

TABLE E4-11 SUMMARY TABLE OF WATER BALANCE STUDY WITH BAYONGAN RESERVOIR ONLY

(CROPPING INTENSITY: 180%)

* RESERVOIR CAPACITY 32.00 (MCM) * MAIN CANAL CAPACITY 2.13 (CU.M/S)

UNIT=CMCM)

		1 2							
	OTALII	RRIGAT.	CAPAYAS	TOTAL	INTAKE	EVAPO	o s o	SHORT	्यः) मः।
ഗ	113	42.44	0.0	2.44	2.44	0	1 ON	0	i N
0	M.	8.69	•	. 69	3.76	0.1	06	-4.931	0.0
m		79.0	•	0.97	6.04	M M	82	4.92	-
4		2.08	0.	2.08	1.02	<u>м</u>	6	1.05	- B
6.6		8.98	0.	8.98	8.98	5	96.	0	0
4.0		4 62	0.	4.62	4 - 62	5	96	., ₽ ,	9.70
2 .75	M	4.88	0	4.88	4 88	60.	9.6	· `	
2.08	~	4.43	0	4.43	4.43	8	96	·*	3.67
6.77	:	9.14	0	9.14	9.14	50.	96	0	9.68
12.2		0.23	0	0.23	4 .01	100 100 100	6	#	0.0
4.05		1.28	0.	1.28	1.28	5.0	.96	0	
7.03		8.37	0	8.37	3.24	• 80 90	80	5.12	0.0
4.84	- -	9.5.9	0	9.59	8 00	.8.1	82	1- 100	- F
0.85	•	20.0	0	0.07	9.12.0	. M	0.6	ŝ	0.0
6.07	:	6.41	0	6.41	6.41	- 87	.96	0.0	4.29
9.92	•	0.06	•	0.06	0.06	.7.6	96	o,	8.08
3.5.36		7.70	0	7.70	8 71	. 7.6	. 80		6.26
2.85		2.73	0	2.71	2.71	.85	- 96	0	5.11
3.89		4.50	0	4.50	4.50	0.2	.96	ંસ	5.770
7.16	•••	8.31	0.	8.31	8.31	M 6	. 90	- ÷	.51
3.77	. •	0.31	•	0.31	0.31	70	-96		6.06
3.78		7.19	2 2 2 0 0	7.19	7.19	- 82	9.6	1 A.	5.45
9 031	• •	8 37	0	8.37	8 37	.77.	96	- ° 10	0.74
8.37	• .	3.65	0	3.65	3.65	.70	9.6		4.02
3.56	•	8.75	•	8.75	2.01	.00	06.	1 B.	3.07
7.52	:	2.57	0.	2.57	2.57	. 69	96	0	6.91
76-0		1-69		1.69	5.73	. 88	м Л	. I	0
54		м 	0	1.32	1.32	94	.96	0.0	
6		12	0-0	42.123	39-068	4 - 504	0.916		

				7000 0000000		א ד ד ל ל	UN N V				
				* KESK MAIN CA	LK CAPAC NAL CAPAC	.117.24. CITY 22.	13 CCU - M	/S/	= L T N N	<mcm></mcm>	
EAR	A I I A R I I A R I I	MALINA	W> TOTAL	1 O H-	M A N D CAPAYAS		NTAK		l S	SHORT	н С
	1 1	61.43		1 4		2.44	i N	ाः ः	10		32.181
ίΩ	20.2	ω • Μ		8.69	0.0	ଂ	• • •	. 23	9	0 ∾	0 0
s in	8	3.69	3.51	0.97		0.97	6.00	.32	-87	•	
``O	9 M	5.14	4.51	2.08	, ș	2.08	0.98	34	66	10	20 - 1
്ഗ	0.56	6.07	6.63	8.98	. j.e.	8.98	8.98	06.	.02		0-0
9	97	8 51	0.49	4.62	<u>ا اور ا</u>	4.62	4.62	0	0.2		- 66
0	2.77	9.08	2.76	4.88		4 88	4.88	63	00	_,∎ -	с 1
0	9.86	2.22	2.08	4.43		4.43	4 - 43	70	05	- . .	3.5
0	34	4.42	9.77	9.14	•	9.14	9.14	9.6	. 02	0	9.87
0	8.85 85	8 86	7-71	0.23	()¥	0.23	6.38	74	. 96	-3 * 1	0.0
<u>`</u> • 0	4 1	2.91	4.05	1.28		1.28	1.28	.61	0 0	•	- Y 🛊
5	7.33	9.69	7.03	8.37	- a	8.37	4.97	00.	°.	3.40	0.0
) : VQ	61	6.22	4.84	9.59		9-59	7.96	80	. 87	j2.€.	1.00
~	8.90	1.95	0.85	0.07	. ÷	0.07	9.16	2 M	.96	0.91	0.0
. N	2.78	3.29	6.07	6.41	1.4	6.41	6.41	- 96	.02	•	2.19
~	0.59	9 J2	9.92	0.06		0.06	0.06	. 90	0.0		7-95
~	96	5.40	3.36	7.70	1 ()	7.70	0.29	2	. 8	100	ંદાં
- N	1.49	1. 1	2.85	2.71	. •	2.71	2.7.2	86	СЛ О	2.4	0T-N
~	2.09	1.80	3.89	4.50		4.50	4.50	<u></u> б.	05		5.65
\sim	8.25	8.91	7.16	8.31		8 31	8.31	96	20.	2.5	6.43
\sim	1.49	2.28	3.77	0.31		0.31	0.31	. 7	0 0	. e. e.,	6.00
~ N~	9.03	4.75	3.78	7.19	•	7.19	7.19	- 92	102	÷.,	- 24
∴ ∿ -	8	1.96	9.81	8.37		8.37	8.37	72	05	e	0.76
_00 1	00 M	2.99	8.37	3.65	ોનું 💌	3.65	3.65	. 63	• 0 N	0	4.00
∞	9.74	3.82	3.56	8.75	3. [©]	8.75	4.03	- 07	.96		3.05
00	80	6.06	7.52	2.57	. •	2.57	2.57	6.7	05	0	60
ဆ	6.11	4.82	0.94	1.69	÷ \$	1.69	7.54	00 00	. 60	°.∙`	0 0
о П	23	9.01	8.24	1 . J	. 0	1 . W2	ч Ч	86	਼	0 0	0
VE.	10.292		59.270	42.123	0.0	42.123	39.431			-2.692	14.703

Water Balance Study with Capayas Reservoir Only

4.3

Construction of Capayas dam and its irrigation system could be completed at early stage than that of Bayongan system, because of small scale of works, so that the model of land reclamation, cultivation practices and water management could be also introduced in the Capayas system area prior to the completion of Bayongan dam and its service area with a little large scale.

Under the situation, water balance study with Capayas reservoir only was made for the periods of 28 years in case of several cropping intensity for the wet and dry seasons, in order to find out optimum cropping intensity to meet an available water resources in case of Capayas reservoir only.

As the results, an average cropping area for the period of 28 years was estimated at 1,320 ha, 700 ha in the dry season (1st crop) and 620 ha in the Wet Season (2nd crop) with the water shortage frequency of 10 years during 28 years, equivalent to about 3-years return period (see TABLE E4-13). In the normal year, 750 ha of land, which is equivalent to 65 percent of the proposed irrigation area of 1,160 ha under the Phase II project could be irrigated.

In this study, reservoir capacity of Capayas dam is 2.3 MCM with the consideration of full development stage of the project and same cropping pattern proposed in the project was applied. Furthermore, following rule to determine cropping area was planned considering an available water resources to be stored in the reservoir.

Dry S	eason	Wet S	Season
Reservoir Water Level $\frac{1}{}$	Cropping Area	Reservoir Water Level ^{2/}	Cropping Area
WL 34.0 m	750 ha (65%)	WL 34.0 - 32.5m	750 ha (65%)
Less than	580 ha (50%)	WL 32.5 - 31.0m	520 ha (45%)
WL 34.0 m		Less than WI 31 0 m	230 ha (20%)

Note: 1/; Water level at late-October 2/; Water level at Mid-May

	Croppin	g Area	Water S	Shortage	
	Dry	Wet	Dry	Wet	m×+∧1
Year	Season (ha)	Season (ha)	Season (MCM)	Scason (MCM)	Total (MCM)
1956 - 1957	750	750	0	0	0
1957 - 1958	750	520	0	0	0
1958 - 1959	580	750	0	0	0
1959 - 1960	750	750	0	0	0
1960 - 1961	580	750	0	0	0
1961 - 1962	750	750	0	0	0
1962 - 1963	750	750	0	(0.054)	(0.054)
1963 - 1964	750	750	(0.062)	(0.086)	(0.148)
1964 - 1965	750	750	0	0.277	0.277
1965 - 1966	580	750	0	0.222	0.222
1966 - 1967	750	750	0	0.667	0.667
1967 - 1968	750	230	0	0	Ŏ
1968 - 1969	750	230	0.753	0	0.753
1969 - 1970	750	520	0	0	0
1970 - 1971	750	750	0	0	0
1971 - 1972	750	230	0	0	0
1972 - 1973	580	230	0.895	0.348	1.243
1973 - 1974	580	750	0	0.153	0.153
1974 - 1975	580	750	0	0.535	0.535
1975 - 1976	750	520	0	0	0
1976 - 1977	580	750	0	0	0
1977 - 1978	750	750	0	0	0
1978 - 1979	750	520	0.152	0	0.152
1979 - 1980	580	750	0	0	. 0
1980 - 1981	750	520	0	0	0
1981 - 1982	750	750	0	0	0
1982 - 1983	750	230	2.619	0.479	3.098
1983 - 1984	750	750	0	1.845	1.845
Average	<u>700</u>	<u>620</u>	<u>0.160</u>	0.167	0.327
					(<u>10 years</u>)

TABLE E4-13 RESULTS OF WATER BALANCE STUDY FOR 28 YEARS.

Note: 1/; Figures in parenthesis show an allowable water shortage from view point of plant growth.

2/ ; Detailed calculation is shown in TABLE E4-14.

SUMMARY TABLE OF WATER BALANCE STUDY WITH CAPAYAS DAM ONLY

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TABLE E4-14

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◇ 「 H ○ ○ ○ M ○ 4 ▷ ▷ ○ 0 ○ M ○ 4 ▷ ▷ ○ 0 ○ M ○ 4 ▷ ▷ ○ 0 ○ M ○ 4 ▷ ▷ ○ 0 ○ M ○ 4 ○ M ○ 0 ○ M ○ 4 ○ M ○ 0 ○ M ○ 4 ○ M ○ 0 ○ M ○ 4 ○ M ○ 0 ○ M ○ 4 ○ M ○ 0 ○ M ○ 4 ○ 4	4 1 5	
22 24 25 26 26 26 26 26 26 26 26 26 26	- 89 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
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