Table G.3. 2 Anticipated Production Increase

Unit : 1,888 G

	71 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				3	With Project	(year) 2/			
edoro	Without Project	3rd	4th	5th	6th	7th	8th	9th (M/P)	18th (M/P)	Remarks
Cotton	266, 508	309,375	1	ditto	to	Ì	309,375	253,125 61,875	253,125 67,500	Without Irrigation With Irrigation
Sugarcane	196,352	412,500		11P	ditto		412,500	123,758 336,875	123,750 385,000	Without Irrigation With Irrigation
Maize Mandioca	} 414,893	311,922		ditto	to		311,922	311,922	311,922	
Fruits	239,530.2	263,417	321,228	360,640	480,051	413,188	426,325	426,325	426,325	
Mature Tree	231,880.2	263,417	284,954	294,954	284,854	294,954	294.954	294,954	294,954	
Newly Planted	7,650	. 1	26, 274	65,686	185,897	118,234	131,371	181,371	131,371	
Vegetables	238, 791	400,259	630.696	803,580	803,568	883,560	803.560	883,568	883,568	
Total	1,347,264	1.897.473	1,985,721	2,197,897	2,237,408	2,258,545	2,263,882	2,317,432	2,371,182	
Incressed Products		350,209	638, 457	858.733	890,144	903,281	916.418	970,168	1.823.918	
Increased Value for Quality Products 3/		ı	11,408	22,816	34,224	45,632	57.842	57,848	57,840	
Total		350,203	649,865	873,549	924,368	948,913	973,458	1,027,208	1,080,958	
								After Comple Master Plan	etion of the	After Completion of the Project on the Master Plan

(Note) 1/ Refer to Table G.S.S(2), 2/ Refer to Tabe G.S.S(1) and Table G.S.S(3), 3/ Refer to Table G.S.4

Table G. 3. 3(1) Agricultural Production and Production Value

with Project (Target Year)

Crops	Cropping Area (ha)	Yield (ton/ha)	Production (ton)	Unit Price (G/kg)	Production Value (1,000 G)
Cotton Sugarcane Maize Poroto Mandioca Micellaneous Crops	825 500 481 275 300	75. 5 75. 2 1. 8 18. 0	1, 237. 5 37, 500 577. 2 220 5, 400	250 11 85 213 40	309, 375 412, 500 49, 062 46, 860 216, 000
Sub-total Grape Plum Citrus Other Fruits	75 75 40 10	22. 0 7. 0 8. 0 8. 0	1, 650 525 320 80	170 213 85 85	1,033,797 280,500 111,825 27,200 6,800
Onion Tomato Water Melon Melon Green Pepper Other Vegetables Sub-total	120 60 30 10 130 150	15.0 30.0 25.0 17.0 125.0	1,800 1,800 1,750 170 450 3,750	68 128 45 128 170 85	426,325 122,400 233,7500 333,7560 318,750 318,750
Total	2, 981		56, 229. 7		2, 263, 682

Increased Production Value: 916,418 X 103 G, (2,263,682 - 1,347,264)

Table G. 3.3(2) Agricultural Production and Production Value
without Project

Сторѕ	Cropping Area (ha)	Yield (ton/ha)	Production (ton)	Unit Price (G/kg)	Production Value (1,000 G)
Cotton Sugarcane Maize Poroto Mandioca Micellaneous	820 2555 2555 270 450 15	1.3 70.0 1.2 0.8 18.0 2.5	1,066 17,850 426 216 8,100 37.5	250 11 85 213 40 210	266, 500 196, 350 36, 210 46, 008 324, 000 7, 875
Crops Grape Plum Citrus Other Fruits Onion Tomato Water Melon Melon Green Pepper Other Vegetables	434 725 455 165 165	20. 0 4. 6 5. 0 3. 0 10. 0 20. 0 12. 0 10. 0 15. 0	860 340.4 125 120 5500 300 72 140 975	170 2 855 868 125 420 1775	146, 200 72, 505. 2 10, 625 10, 200 37, 400 64, 000 13, 500 23, 800 82, 875
Total	2, 577		31,677.9		1, 347, 264. 2

Note: In case of the without project, the cropping area and yield of per ha are regarded the same as the present situation.

Table G. 3. 3(3) Agricultural Production and Production Value
with Project on M/P

Crops	Cropping Area (ha)	Yield (ton/ha)	Production (ton)	Unit Price Price (G/kg)	Production Value (1,000 G)
Cotton - do - Sugarcane - do - Maize Poroto Mandioca Micellaneous	675 150 150 150 481 275 306	1.5 1.8 75 100 1.2 0.8 18.0	1,012.5 270 11,250 35,000 577.2 220 5,400	250 250 11 11 85 213 40	253. 125 125. 7500 123. 7500 385. 762 49. 860 216. 000
Crops Grape Plum Citrus Other Fruits Onion Tomato Water Melon Melon Green Pepper Other Vegetables	755 40 100 120 600 300 100 300 150	22. 0 7. 0 8. 0 8. 0 15. 0 25. 0 17. 0 15. 0	1,650 320 380 1,800 1,800 1,750 450 3,750	170 2 185 858 688 1 245 1 28 170 85	280, 500 111, 825 27, 200 126, 800 122, 400 230, 400 33, 750 21, 760 76, 500 318, 750
Total	2, 981		65,024.7		2, 371, 182

Increased Production Value: 1,023,918 X 103 G (2,371,182 - 1,347,264)

Table G. 3.4 Valuation for Quality Produce

Crops	Produce (1,000 G)	Remarks
Grape Plum Citrus Other Fruits Sub-total	191, 420 111, 825 27, 200 6, 800 337, 245	(1.650 - 524) ton X 170,000G
Cegetables Total	803, 560 1, 140, 805	
Valuation	57,040	1, 140, 805 X 0.05

Grapes of 524ton will be used as the materials of Winery

Table G. 3.5(1) Production Cost With Project

Crops	Cropping Area (ha)	Unit Cost (1000G/ha)	Cost (1000G)
Cotton Sugarcane Maize Poroto Mandioca Micellaneous	825 500 481 275 300	229.2 383.1 130.9 261	189,090 191,550 } 62,962.9 78,300
Grape Plum Citrus Other Fruits Onion Tomato Water Melon Melon Green Pepper Other Vegetables	755 755 400 1200 300 150	- 1 . 1 . 2 . 5 . 5 . 4 . 5 . 5 . 4 . 5 . 5 . 5 . 2 . 2	84.6700 516.51228 146.7767 640.77675 1469.4725 513.580
Total	2,981		1,128,910.9

Increased Cost: $420,692.5 \times 10^3 G(1.128,910.9 - 708,218.4)$ Increased Net Income: $495,725 \times 10^3 G$, (916,418 - 420,692.5)

Table G. 3. 5(2) Production Cost Without Project

Crops	Cropping Area (ha)	Unit Cost (1000G/ha)	Cost (1000G)
Cotton Sugarcane Maize Poroto Mandioca Micellaneous Crops Grape Plum Citrus Other Fruits Onion Tomato Water Melon Melon Green Pepper Other Vegetables	8255 3555 270 450 15 434 2405 255 2166 165	223.6 359 130.9 261 182 1,29 7254.5 1,2832 2254.5 1,88833 1,1631	183, 352 91, 545) 46, 469, 5 117, 450 2, 730 48, 547 58, 362, 5 10, 180 20, 800 45, 245 13, 298 16, 450 41, 015
Total	2,577		708, 218. 4

Note: Other Miscelloneous corps means Peanut, Other Fruits means Mango and other vegetable means cabbage.

Table G.3. 6 Breakdown of Production Cost

8/A	31.2 38.8	53. 4 53. 6	39.8 39.8	58.9 59.2	63.8 63.8	14.4	44.1	28.4 36.3	42.5 54.9	30. 9 32. 4	15.9	71.3	18.7	25.1	35.3
(B) N. P. V.	101, 400	411, 000	40, 580	40, 580 100, 900	459, 000 459, 900	30, 500 30, 500	300, 000 514, 600	728, 000 1, 394, 000	653, 000 1, 193, 548	525, 000 825, 000	119, 000 492, 800	2, 870, 800 3, 270, 800	183, 500 375, 200	171,000	450, 000
Produce-	G/Kg 250	6/ton 11,000	6/kg 85	G/kg 213	6/kg 40	6/kg 85	89 29/5	6/kg 128	G/kg 128	6/kg 170	6/kg 50	6/kg 200	6/kg 213	85	85
Total	200	359, 000 383, 052	61, 420 61, 420	69, 500 69, 500	261, 000 261, 000	182, 000	380, 000 505, 400	1, 832, 000 2, 446, 000	883, 000 982, 452	1, 175, 000 1, 725, 000	631, 000 957, 200	1, 129, 000 1, 129, 000	795, 600 795, 600	509, 000	825, 000
Others	39, 000 15, 600	88, 000 88, 000		_	ł (•	26, 000 32, 000	320, 000 320, 000	10, 269	11, 000 30, 250	15, 000 28, 000	186, 000 186, 000	90, 000 90, 000	32, 000	62, 500
Interest	1 1	1 1	1 1	1 1		1	l t	1-1	1 1	t I	1-1	175, 000 175, 000	135,000 135,000	85, 000	85, 000
Labor	136, 600 140, 000	215, 000 215, 000	53, 500 53, 500	53, 500 53, 500	221, 000 221, 000	150,000	212, 000 281, 960	548, 000 720, 000	212, 000 233, 412	550, 000 698, 250	235, 000 305, 000	320, 000 320, 000	214, 000 214, 000	150,000	57, 500
Agro. Chemical	32, 000 42, 000	12, 026	6, 000 6, 000	6, 000 6, 000	1	-	14, 000 21, 200	258, 000 466, 000	84, 000 92, 484	150, 000 203, 000	36, 000 164, 200	133, 000 133, 000	53, 600 53, 600	32, 000	215, 000
Fertilizer	15, 600	56, 000 68, 026	1	ı	•	L	84, 000 111, 720	576, 000 750, 000	262, 000 288, 462	264, 000 560, 500	280, 000 285, 000	315, 000 315, 000	303, 000 303, 000	210, 000	405, 000
Seed	16, 000 16, 000		1, 920 1, 920	10, 000 10, 000	40, 000 40, 000	32, 000	44, 000 58, 520	130, 000 190, 000	325, 000 357, 825	200, 000 233, 000	65, 000 175, 000		ı	·	1
(A) Gross income	325, 000 375, 000	770, 000 825, 000	102, 000 102, 000	170, 400 170, 400	720, 000	212, 500 212, 500	680, 000 1, 020, 000	2, 560, 000 3, 840, 000	1, 536, 000 2, 176, 000	1, 700, 000 2, 550, 000	750, 000	4, 000, 000 4, 400, 000	979, 800 1, 171, 500	880, 000	1, 275, 000
Yield (t)	1.3	70.0 75.0	1.2	0.0	18.0 18.0	2.2	10.0	20.0 30.0	12.0 17.0	10. 0 15. 0	15.0 25.0	20.0 22.0	4. 6 5. 5	5.0 3.0	8.0 7.0
Crops		ſ		- 1			- 1	8. Tomato without with		10. Green paper without with	<pre>11. Other Veg. without with</pre>			14. Without Orange Other Fruit	With Orange Other Fruit

Table G.3. 7 Economy in Transportation

Té-ca-		After Comp	After Completion of the Project	e Project.		Damorlic
T CERT	(F/S) 1st	2nd	3rd		(M/P) 10th	itemet no
Economized Expenses in Transportation						
In-Put Materials and Products in Project Area	295, 096	308, 271	322, 157	op	533, 333	469, 670 X 1.137 = 532, 864 Refer to Table G. 3.8(1) and Table G. 3.8(2)
in-put Materials and Products in Surrounding Area	401, 550		!	op	442, 281	Refer to Table G.3.8(1) and Table G.3.8(2)
Products and Materials for the Fruit Processing Factory and Others	143, 889			op	143, 889	Refer to Table G. 31. 8(1)
Reduction of Bruise in Transportation	52, 192	57,040	op	0	57, 040	Refer to Table G. 3.13
Total	892, 727	911, 750	924, 636	op	1, 176, 543	

Economized Expenses in Transportation Table G.3. 8(1)

After Completion of the Project on F/S

				₹ ;	After Comp	Completion	of	the Project on	on F/S	Unit: 1,000 G
Zone	Farm Land	Name of Road	Freight	Wit Transportation	thout Pro Distance	Whit Porje Speed	oct Time Required	Cost	Economized	Remarks
	(ha)	Length (km)	(ton)		₩ays) (km)	(ka/hr)	(hr)	(1,000G)	Expenses (1,000 G)	
EAST YBAROTY	330	251-16 (2. 4)	950	Carriage Truck	ಕ್ಕ ಪ	2.5	2. 92 1. 0	16, 297 2, 082		1 hr. for transshipment is added to the Time Required
				Truck	4.8	25.0	0, 19	386	17, 983	
			+ 6, 650	Carriage	4.8	2.5	1.92	75, 012		
			(21 × 000)	Truck	4.8	25.0	0.19	2, 770	* 72, 242	
		251-20 (1.4)	1, 500	Carriage Truck	1.8	2.5	1.72	15, 158 3, 288		
. !				Truck	1.8	25.0	0.07	230	18, 216	
		251-17-3 (2.0)	* 4, 560 /940 × 30)	Carriage	6.0	2.5	2.4	64, 296		
		·	/8T V 0.57\	Truck	6.0	25.0	0.24	2, 399	* 61,897	
WEST YBAROTY	360	251-22 (5.8)	6, 000	Camioneta	8.0	15.0	0.53	10, 971		
		251-22-1(2.0)		Iruck	8.0	25.0	0.32	4, 209	6, 762	
·			3, 000	Carriage Camioneta	8.0 0.8	2.5 15.0	4. 2 1. 53	74, 225 15, 836		1 hr. for transshipment is added to the Time Required
1				Truck	16.0	25.0	0.64	4, 344	84, 917	
			*11, 020 (580 × 19)	Carriage Camioneta	5.8 6.0	2. 5 15. 0	2. 24 0. 4	145, 023 15, 208		
				Truck	11.6	25.0	0.46	11, 112	*149,119	
TRANQUERA	240	805 (2.8)	1, 500	Camioneta	3.8	15.0	0. 25	1.294	: :	
				Truck	3.8	25.0	0.15	493	801	

Farm Land	1	Name of Road	Freight -	Wit	Without Project / Whit Porject	Whit Porje	É	Cost	Economized	Remarks
(ha) Length (km)	Length (k	ब्रि	(ton)		Ways) (km)	(km/hr)	(hr)	(1, 000G)	Expenses (1,000 G)	
			+36, 100	Camioneta	3.8	15.0	0.37	46, 082		
		,	(1, 300 x 13)	Truck	5.5	25.0	0.22	17, 409	28, 673	
818-01 (5.2)	818-01 (5. 2)	6, 000	Camioneta	7.0	15.0	0.47	9, 729		
				Truck	7.0	25.0	0.28	3, 683	5, 046	: :
818-01-3	818-01-3		2,000	Carriage Camioneta	1.8 10.4	2.5 15.0	1. 72 1. 69	20, 210 11, 661		1 hr. for transshipment is added to the Time Required
·,	٠,			Truck	12.2	25.0	0.24	1,052	39, 819	
818 (1.5)	818 (1.	ഒ	8, 000	Camioneta	3.0	30.0	0.1	2, 760		
				Truck	3.0	40.0	0.08	1, 403	1, 357	-
818-02 (3.2)	818-02	(3.2)	4, 000	··· Carrìage	7.2	2,5	2.9	68, 150		To La Colmena through 818
	:		-	Truck	5.2 3.0	25:0 40.0	0.1	43, 384	63, 766	
400 818-06 (4.6) 818-01-1(1.1)	818-06 818-01-	(4.6)	6, 000	Camioneta	6.2 6.0	15.0 30.0	0.41	8, 487 4, 140		
				Truck	6.2 6.0	25. 0 40. 0	0.25 0.15	3, 288 1, 973	7, 366	- op -
818-04 (3.6)	818-04	(3. 6)	4, 000	Camioneta	4.8 6.0	15.0 30.0	0.32 0.2	4, 416 2, 760		To La Colmena through 818
				Truck	4.8 6.0	25.0	0.19 0.15	1,666	4, 195	- op -
			* 8, 930 (470 x 19)	Camioneta	7.2 6.0	15.0 30.0	0.48 0.2	14, 788 6, 141		To La Colmena through 818
:				Truck	7.2 6.0	25.0 40.0	0. 29 0. 15	5, 677 2, 936	*12, 316	- op -

Unit: 1,000 G

				+:m	Without Daniest / Whit Daniest	Whit Donie	+				-
2one	Farm Land (ha)	Name of Road Length (km)	Freight (ton)	Transportation Distance (both Ways) (km)	Distance (both	Speed (Fig./hr)	Time Required (hr)	Cost (1 nong)	Economized Expenses (1,000 G)	Remarks	
RORY-MI	380	818-06 (5.6)	3, 500	Camioneta	40	15.0 30.0	8.36 0.37	4, 347		To La Colmena through 818	
				Truck	5.4	25. 0 40. 0	0.22	1, 688	4, 979	- op -	-
			+14, 440 (760 × 19)	Camioneta	11.0	15.0 30.0	0.75	37, 364 18, 433		To La Colmena through 818	
				Truck	11.2 11:0	25. 0 40. 0	0, 45	14, 244 8, 863	•32, 690	- op .	
		818-03-2(2.4) 818-03-3(1.7)	1, 500	Carriage	5.4 6.0 11.0	2. 5 15. 0 30. 0	3.16 1.4 0.37	27, 848 7, 245 1, 915		i hr. for transshipment is added to the Time Required To La Colmena through 818	
				Truck	11.4	25.0	0.46	1, 512 921	34, 575	90	
		818-05 818-05-1	4, 500	Camioneta	7.0 8.0	15. Ø 30. 0	0.47 0.27	7, 297		To La Colmena through 818	
		818-05-2 (5. 2)		Camioneta	7.0 8.0	25. 0 40. 0	0.28 0.2	2, 762 1, 973	6, 754	, 89 1	
. 1			*11, 210 (590 x 19)	Camioneta	10.4 8.0	15.0 30.0	0.69	26, 685 10, 422		To La Colmena through 818	•
		. :		Truck	10.4 8.0	25. 0 40. 0	0.42	10, 320 4, 914	21, 873	- op	1. 1.
MBOCAYATY	230	818-07 (2.1)	1, 700	Carriage	2.8 12.0	2. 5 30. 0	2.12 1.4	22, 174 8, 211		Ihr for transshipment is added to the Time Required	_:_
				Iruck	2.8 11.0	25.0 40.0	0.11 0.3	410 1, 118	28, 857	io La voimetta Unroughi otor	:

Unit: 1,000 G

2002	1	Many of Days	410	1.8	Without Project / Whit Porject	Whit Porje	ct	4.00		Donner
Picore	raria Land (ha)	Length (km)	(ton)	Transportation	Transportation Distance (both Speed Ways) (km) (km/hr)	Speed (km/hr)	Time Required (hr)	(1,000G)	(1,000G) Expenses (1,000 G)	Notal so
MBOCAYATY		818	10, 350	Truck	14.0	25. 0	0.58	12, 705		
				Truck	14.0	40.0	0,36	7, 941	4, 764	
			*29, 640	Truck	23.6	25.0	0.94	61,073		
	,		(FT V DOC 'T)	Truck	23.6	40.0	0.59	38, 333	* 22,740	
Total									723, 707	Project Area : 322, 157
										Sufficients area , vot. 350
Fruit		818	150, 000	Iruck	23.6	25.0	0.94	350, 814		
Factory and Others				Truck	23.6	40.0	0. 58	206, 925	143, 889	

Note; 1. Weight of Freight is estimated as follow;
- For the Project Area
(Gropping area benefited by the road) X 25ton/ha, Rrefer to Table G.3.9
- For the Surrounding Area
(Number of houses) X 19ton/household; Refer to Table G.3.12

2. Freight-age is as follows:
- Carriage : 5,875 G/ton, hr Refer to Table G.3.14
- Camioneta: 3,450 G/ton, hr
- Truck : 2,192 G/ton, hr

Table G.3. 8(2) Economized Expenses in Transportation
After Completion of the Project on M/P

				1			*	333	7/17 11/1	Unit: 1,000 G
Zone	Farm Land	Name of Boad	Freight		Without Project / With Project	ct/With!	hoject		Boonomi and	To mod
}	(ha)	Length (Km)	(ton)	Transportation	Distance (both Ways) (km)	Speed (km/hr)	Time Required (hr)	Cost (1,000G)	Expenses (1,000 G)	STATE OF THE STATE
EAST YBAROTY	_									
٠.	380	251-15 (1. 2) 251-18 (2. 2)	4, 300	Carriage Truck	2.2	2.5	1.88 1.0	47, 484 8, 426		ihr for transshipment is added to the Time Required
		251-19 (2.2) 251-21 (1.0) 819-01 (1.4)		Truck	2.2	2.2	0.09	848	56, 072	
		819 (2.8)	3,000	Truck	3.8	20.0	0.19	1, 249		
				Truck	3.8	30.0	0.13	855	394	
		251-17-1(1.3)	+ 2, 280 (120 X 19)	Carriage Truck	2.6	2.5	2.04 1.0	26, 794 4, 998		Inr for trensshipment is added to the Time Required
				Truck	2.5	25.0	0.1	200	• 31, 292	
		819 (2.8)	*40,850	Truck	5, 5	20.0	0.28	25,072		
			(er v ner '7)	Truck	5.6	30.8	0.19	17,013	* 8,059	-
#B0CAYATY		818-06-10(1.8)	1, 260	Carriage	2.4	2.5	1.96	13,818		in for transchipment is
				Camioneta	11.2		1,75 0,37	7, 245		added to the Time Required
•	· ·		-	Truck Truck	13.6	25.0 40.0	0.54 0.28	1, 420	23, 543	
	-	818-09 (2.7) 818-10 (1.9)	5, 500	Carriage Truck	2. 8	2.5	2.04 1.0	65, 918 2, 192		The for transshipment is added to the Time Required
		818-12 (1.2) Average: (1.9)		Truck	2.6	25.0	0.1	1, 20\$	68, 304	
		818-11 (0.4)	4 3, 230	Camioneta	0.8	15.0	0.05	557		
			(1/8 × 19)	Truck	0.8	25.0	0.03	214	345	
	-	818-08(0.4)	* 9, 690	Carriage	0.8	15.0	0.05	1, 672		
			(et v nto)	Truck	0.8	25.0	0.03	637	* 1,035	
Total		-							187, 644	Project Area: 146, 913
Accumulation									911, 351	Project Area: 469,070 ** Surrounding Area:442,281

Table G. 3.9 In-Put Materials and Products in the Project Area

After Comlision of the Project (year)	In-Put materials (ton)	Products (ton)	Total (ton)	(%)	(ton/ha)
1st	12.024.1	46, 692. 1	58,716.2	91.6	22.6
2nd	- do -	49, 556. 2	61,580.3	96.0	23.7
3rd	- do -	51, 682.7	63,706.8	99.4	24.5
4 t h	- do	51, 931.8	63,955.9	99.7	24.6
5th	- do -	52,015.5	64,039.6	99.9	24.6
6 t h	- do -	52,098.5	64,122.6	100.0	24.6
7th (M/P)	- do -	56, 495.7	68,519.8	106.9	26.4
8th (M/P)	- do -	60, 893.2	72,917.3	113.7	28.0

Note: Refer to Table G. 3.10 and Table G. 3.11

Cotton Sugarcane Maize Poroto Mandioca Miscellaneous Crops Grape Citrus Citrus Other Fruits Onion Tomato	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Project Shipment 1,066 17,850 17,850 172 72 72 12.5 860 860 860 550 550			#ith Project 3rd 3rd 946 352 518 3.5 500 60 1.800 1.800	4th do do do 200 200 200 96 96 96 96 96 96 96 96 96 96 96 96 96	do do do do 518 6.3 518 6.3 200 108	the Project) 6th 6th 7 1,650 1,650 40	7th (M/P) 8th (M/P) 1,012. 1,260 270 270 1,150 41,875 35,000 do do	(M/P) 012.5 270 150 000
Water Melon Melon	300	300			170			0p 0p		
Water Melon Melon	300	300	- 1 -		170			op Op		
Green Pepper	140	140		-I I	1 1			op ,		
Uther Vegetables Total	31.677.9	975 25,824.9	832.5	1,942.5	51.682.7	51, 931, 8	52,015.5	52, 098. 2	(M/P) (M/P) 56,495.7 60,893	(P)

Table G.3.11 In-Put Materials

O	Cropping	ln-Put	Materials
Crops	Area (ha)	Per ha(kg)	Total (ton)
Cotton	825	200	165
Sugarcane	500	614	307
Maize	481	-	
Poroto	275	_	<u> </u>
Mandioca	300	-	-
Grape	75	16, 250	1, 218.8
Plum	75	16, 250	1, 218.8
Citrus	40	7,650	306
Other Fruits	10	7,650	76.5
Onion	120	4, 900	588
Tomato	60	51,000	3,060
Water Melon	30	22, 400	672
Melon	10	22, 400	224
Green Pepper	30	37,600	1, 128
Other Vegetables	150	20, 400	3,060
Total	2, 981		12,024.1

Table G.3.12 In-Put Materials and Products in the Surrounding Areas

	Products in	n Paraguari 1	Shipping per	Yield	Cropping Area	In-Put	t Materials
Crops	(1,000ton)	(ton/household)	Household (ton)	(ton/ha)	(ha/household)	(kg/ha)	(ton/Household)
Cotton	31.6	1. 2	1. 2	1.0	1. 2	33	0.04
Sugarcane	316.8	12. 2	12. 2	50.0	0.3	430	0.13
Maize	52. ճ	2.0	1.0	1.3	1.5		-
Poroto	4.7	0.2	6. 1	0.8	0.3		-
Mandioca	218.5	8.4	4.2	13.0	0.7	-	-
Total			18.7		4.0		0.17

Note: In-Put Materials and Products per Household: 19.0 ton, (18.7 + 0.17 = 18.87 ton)

14 Number of farmers in Dept. Paraguari : 26,000 Houses

Table G. 3.13 Reduction of Bruise in Transportation

Crops	Products (1,000 G)	Remarks
Grape	191, 420	(1,650-524ton) X 170,000G 524ton of grapes: for winery use
Plum	111,825	
Citrus	27, 200	Part of the second of the seco
Other Fruits	6,800	
Vegetables	803, 560	Refer to Table G. 3.3 (1)
Total	1, 140, 805	

Benefit by Reduction of Bruise in Transportation: 57,040,000 G (1,140,805 X 0.05)

Table G. 3.14 Freightage of Agricultural Products and Materials

ltem	Carriage	Camioneta	Truck
Depreciation Per hour	1,850 G 7,400 G/8hr x 2 heads	3, 125 G	6, 250 G
Labor Cost	500 G 2,000G/8hr x 2 persons	325 G (2,600/8hr)	325 G
Total	2,350 G/hr	3,450 G/hr	6,575 G/hr
Carring Capacity	0.4 ton	1 ton	3 ton
Freightage	5,875g G/ton.hr	3,450 G/tm.hr	2,192 G/tm.hr

Table G. 3. 15 Benefit of Water Service (Alternative)

(By Shallow Well)

ltem	Cost	Remarks
Construction Cost:	300,000 G	
- Pump, Motor, Pipeline	1,000,000 G	
Depreciation - Well (1)	20,000 G	Equalification depreciation of 15 years
- Pump, Motor, Pipeline (2)	200,000 G	Equalification depreciation of 5 years
- Maitenance Cost (3)	50,000 G	1,000,000 G X 0.005
Sub-total	270,000 G	(1)+(2)(3)
Total Cost	89, 910, 000 G	270,000 X 333 houses
(In case of Dry up)		
Depreciation cost per hour	1,850 G	See Table G. 1.14
Labor Cost per hour	500 G	
Micellaneous expenses	120 G	
Sub-total	2,470 G	
Traveling hour	1.7 hr	2 times per day (100 min)
Annual expenditure per household	378.000 G	2,470 x 1.7 hr x 90 days
Total expenditure	26,460,000 G	378,000 G x 70 houses
(Water Supply for the	Urban Area)	
Equivalent to the water charge in the Urban Area	14,016,000 G	800 persons x 0.2 m ³ /day x 365 days x 240 G ¹
Total	130, 386, 000 G	

Note: 1/ Water Charge in the Urban Area
1,400 G/month 202 Houses 2
1,700 G/month 38 Houses 282,800 G 64,600 G 1,447.5 (Average) 240 Houses 347,400 G Present Condition: $6 \text{ m}^3/\text{month/houses}$ Water Charge: 240 G/m^3 , $(1,447.5 \div 6)$

> Number of benefited houses is 405 on M/P. Incrased benefit as compared with that of F/S, 378,000 G x (405 -333) \approx 27,216,000 G. Benefit in total; (130, 386, 000 + 27, 216, 000) = 157, 602,000 G

Table G. 3. 16 Benefit of Winery

Item	Cost	Remarks
Rise of Valuation by Improvement in Quality	103,600 G	740,000 t X 140 G/t

Note: After completion of M/P, increased benefit is estimated as below; 740,000~1~x~350~G~x~0.2~-~51,800,000~G

Table G. 3.17 Benefit by Collecting & Shipping Facility

Item	Cost	Remarks
La Colmena ~ Asuncion Transporting cost per 1 ton (by Track)	10,000 G	
Camioneta	14,063 G	3.125 G X 270 km/60km/hr
Reduction of expense by Truck	4,063 G	140,063 G - 10,000 G
Dealing amount (to Asuncion)	10,771 t	Grape 1,126 ton 1/, Amount of Plum, Citrus, Other Fruits, Onion, Water Melon, Melon, Green Pepper and other Vegetable is 9,645 ton 2/
Reduction cost of expenditure	43,762,600 G	4,063 G x 10,771 ton

Note: 1/ Remaining 524 ton of Grapes Will be used as the materials for winery
2 See Table G. 3.3(1)

After completion of M/P, increased benefit is estimated as below; $1.140.805,000 \text{ G} \times 0.1 = 114,080,500 \text{ G}$

Table G.3.18 Benefit by Drainage Improvement

Item	Cost	Remarks
(F/S) Improvement of Poor Drainge Area	250 ha	
Increase of Breeding Number	250 heads	250 ha X 1.0 head/ha 1/
Shipment Number per Year	50 heads	250 heads X 0.2
Sales Amount	8, 800, 000 G	50 heads X 176, 000, G/head
(M/P) Improvement of Poor Brainage Area	900 ha	
Increase of Breeding Number	900 heads	900 heads X 1.0 head/ha 17
Shipment Number per Year	180 heads	900 head X 0.2
Sales Amount	31, 680, 000 G	180 heads X 176,000 G/head

Note: 1' Pasture : 3,200 ha
Fallow Land : 2,000 ha
Poor Drainage Area: \(\triangle \) 900 ha
Total 4,300 ha
Breeding Number : 4,241 heads
Breeding Number per ha : 1,0 heads

Table G.3.19 Increased Working Hours in Farming

	Cropping A	rea (ha)		L	abor Cost
Crops	With Project	Whithout Project	Increased Area (ha)	(1000G/ha)	(1, 000 G)
Cotton Sugarcane Maize Poroto Mandioca Micellaneous Crops	825 500 481 275 300	820 255 355 270 450	5 245 126 5 △ 150	140 215 107 221 10. 7	700 52, 675 13, 482 △33, 150 △ 160. 5
Grape Plus Citrus Other Fruits	75 75 40 10	43 74 25 40	32 1 15 △ 30	320 214 107. 5 107. 5	10, 240 214 1, 612. 5 △ 3, 225
Onion Tomato Water Melon Melon Green Pepper Other Vegetables	120 60 30 10 30 150	55 25 15 6 14 65	65 35 15 4 16 85	282 720 233. 4 233. 4 698. 3 305	18, 330 25, 200 3, 501 933, 6 11, 172, 8 25, 925
Total	2, 981	2, 577			127, 450. 4
Working Days					49,019 man day \' 121day/house-hold

(Note) 1': 127, 450, 400 G/2, 600 G/day

Table G.4. 1 Disbursement Schedule

Year	1	2	3	Total
1. Road	1, 257, 582	2, 515, 170	965, 768	4,738,520
2. Irrigation	1, 345, 385	2, 690, 769		4,036,154
3. Drainage		46, 540	56, 882	103, 422
4.Watter Supply		988, 454		988, 455
5.Extension & Adm.		169,000		169,000
6. Agro. Process- ing Facility		231,000	192,000	423,000
7. Collectiong & Shipping Facility			462,000	462,000
8. Demo. Farm		23,000		23,000
9.0/M Machinery		500,000	77,000	577,000
10.Engineering Fee	432,000	432,000	216,000	1,080,000
11. Sub-Totai	3,034,967	7, 595, 933	1,969,650	12,600,550
12.Others	0	0	2,255,000	2, 255, 000
13. Total	3,034,967	7, 595, 933	4, 224, 650	14, 855, 550

Note: Refer to Table G. 1. 1

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Table G.4. 3 Calculation of Economic Internal Rate of

Return - Original -(UNIT: 1,000 G) PROJECT COSTS PRODUCTION **PROJECT** TOTAL NCREMENTAL CONSTRUCT- REPLACE-0 & M YEAR ION COST MENT COST BENEFIT RETURN COSTS COST 0 3,034,967 -3,034,967 1 3,034,967 7, 595, 933 -7,595,9330 0 0 2 7, 595, 933 42,070 427,032 2, 438, 752 1,476,922 -961,8301,969,650 0 3 473, 572 1, 374, 592 427,032 1,848,164 0 46,540 4 0 427,032 479, 392 2,084,734 1,605,342 52, 360 0 5 0 1,655,181 480, 372 2, 135, 553 53, 340 427,032 6 0 0 427,032 486, 252 2, 160, 098 1,673,846 7 0 0 59, 220 427.032 487, 882 2, 184, 643 1,696,761 0 60.850 8 Û 487, 882 2, 184, 643 427,032 1,696,761 9 0 0 60,850 2, 184, 643 487,882 1,696,761 0 0 60,850 427,032 10 487, 882 0 427,032 2, 184, 643 1,696,761 0 60,850 11 1,696,761 427,032 487, 882 2, 184, 643 60,850 0 0 12 503, 982 2, 184, 643 1,680,661 0 16, 100 60,850 427,032 13 487,882 2, 184, 643 1,696,761 0 60.850 427,032 0 14 1,064,882 577,000 60.850 427,032 2, 184, 643 1, 119, 761 0 15 427,032 487, 882 2, 184, 643 1,696,761 0 0 60.850 16 487,882 2, 184, 643 1,696,761 0 0 60,850 427,032 17 1,696,761 427,032 487, 882 2, 184, 643. 0 0 60,850 18 487, 882 2, 184, 643 1,696,761 427,032 19 0 0 60,850 1,696,761 427,032 487,882 2, 184, 643 20 0 0 60,850 21 0 60,850 427,032 487,882 2, 184, 643 1,696,761 487,882 1,696,761 0 0 60.850 427,032 2, 184, 643 22 427,032 0 374,040 60.850 861, 922 2, 184, 643 1, 322, 721 23 357,940 427,032 845,822 2, 184, 643 1, 338, 821 0 60,850 24 427.032 742, 624 2, 184, 643 1,442,019 254, 742 0 60,850 25 594, 273 2, 184, 643 1,590,370 106, 391 427,032 0 60,850 26 1,013,370 1, 171, 273 2, 184, 643 0 683, 391 60,850 427,032 27 0 106, 391 60,850 427,032 594, 273. 2, 184, 643 1, 590, 370 28 427,032 594, 273 2, 184, 643 1,590,370 0 106, 391 60,850 29 594, 273 427,032 2, 184, 643 1,590,370 0 106, 391 60,850 30 427,032 594, 273 2, 184, 643 1,590,370 0 106, 391 60,850 31 106, 391 427,032 594, 273 2, 184, 643 1,590,370 0 60,850 32 427,032 651,899 2, 184, 643 1, 532, 744 0 164,017 60,850 33 427,032 487, 882 2, 184, 643 1,696,761 0 0 60,850 34 487,882 0 Ó 60,850 427,032 2, 184, 643 1,696,761 35 0 487, 882 2, 184, 643 1,696,761 0 60.850 427,032 36 487,882 1,696,761 0 60,850 427,032 2, 184, 643 37 0 487,882 1,696,761 38 0 0 60.850 427.032 2, 184, 643 2, 184, 643 39 0 577,000 60,850 427.032 1,064,882 1, 119, 761 427,032 0 60,850 487, 882 2, 184, 643 1, 696, 761 0 40 0 487,882 2, 184, 643 1,696,761 0 60,850 427,032 41 1,696,761 0 0 60,850 427,032 487,882 2, 184, 543 42 0 : 427,032 487,882 2, 184, 643 1,696,761 0 60,850 43 1,696,761 0 0 60.850 427,032 487.882 2, 184, 643 44 1,696,761 0 : 427,032 487,882 0 60,850 2, 184, 643 45 0 427,032 487,882 1,696,761 0 60,850 2, 184, 643 46 0 0 427,032 487,882 2, 184, 643 1,696,761 47 60,850 0 60,850 427,032 487, 882 2, 184, 643 1,696,761 48 0 0 60,850 427,032 487,882 2, 184, 643 1,696,761 49 0 427,032 487, 882 2, 184, 643 1,696,761 0 50 0 60,850 TOTAL 12, 600, 550 3, 642, 576 2, 870, 080 : 20, 497, 536 : 39, 610, 742 103, 645, 120 64,034,378

INTERNAL RATE OF RETURN (IRR) = 12.0%

(Note) Incremental Benefit = Increased Production Amount + Saving Amount, Refer to Table G 3.1

0 & M Costs: Refer to Table G. 2.1

Production Cost: Increased Production Cost Refer to Table G. 3.5 G-46

Table G.4. 4 Calculation of Economic Internal Rate of Return - Invested Exceeds the Estimated

Cost by 10% -

(UNIT : 1,000 G) PROJECT COSTS CONSTRUCT- : REPLACE-INCREMENTAL **PROJECT** O & M PRODUCTION TOTAL YEAR ION COST MENT COST BENEFIT COSTS COST RETURN 1 3, 338, 464 - 0 0 3, 338, 464 0 -3,338,4648, 355, 526 0 0 0 8, 355, 526 -8,355,5262 2, 166, 615 0 42,070 427,032 2, 635, 717 1,476,922 -1.158,7953 0 46,540 427,032 473, 572 1,848,164 1, 374, 592 0 52, 360 427,032 479, 392 2,084,734 5 0 0 1,605,342 0 0 53, 340 427,032 480, 372 2, 135, 553 1,655,181 6 0 427,032 2,160,098 59, 220 486, 252 1,673,846 7 0 60,850 427,032 487,882 1,696,761 0 0 2, 184, 643 8 60,850 427,032 487,882 1,696,761 ġ 0 0 2, 184, 643 10 0 0 60,850 427,032 487,882 2, 184, 643 1,696,761 0 : 0 60.850 427,032 487, 882 2, 184, 643 1,696,761 11 0 60,850 427,032 487,882 2, 184, 643 12 0 1, 696, 761 13 0 16, 100 60,850 427,032 503, 982 2, 184, 643 1,680,661 14 0 . . 0 60,850 427,032 487, 882 2, 184, 643 1,696,761 0 577,000 60,850 427,032 1,064,882 2, 184, 643 1, 119, 761 15 0 : - 0 60,850 427,032 487,882 2, 184, 643 1,696,761 16 0 : 0 60,850 427,032 487,882 2, 184, 643 1,696,761 17 0 0 60,850 427,032 487,882 2, 184, 643 1,696,761 18 0 0 60,850 427,032 487,882 2, 184, 643 1,696,761 19 487,882 20 0 0 60,850 427,032 2, 184, 643 1,698,761 427,032 487,882 2, 184, 643 21 0 : 0 60,850 1, 696, 761 427,032 487, 882 2, 184, 643 1,696,761 22 0 0 60,850 60,850 427,032 374,040 861,922 2, 184, 643 1, 322, 721 23 0 427,032 2, 184, 643 24 C 357, 940 60.850 845,822 1, 338, 821 25 0 254, 742 60.850 427,032 742,624 2, 184, 643 1,442,019 594, 273 26 .0 106, 391 60,850 427,032 2, 184, 643 1,590,370 0 683, 391 60,850 427,032 1, 171, 273 2, 184, 643 1,013,370 27 Ò 60,850 427,032 594, 273 2, 184, 643 1,590,370 106, 391 28 0 60,850 427,032 594, 273 1,590,370 29 106.391 2, 184, 643 1,590,370 0 106, 391 60,850 427,032 594, 273 2, 184, 643 30 31 0 106, 391 60,850 427.032 594, 273 2, 184, 643 1, 590, 370 106, 391 60,850 427,032 594, 273 2.184.643 1, 590, 370 32 0 0 : 164,017 60,850 427,032 651, 899 2, 184, 643 1, 532, 744 33 487,882 427,032 34 0 : 0 60,850 2, 184, 643 1, 696, 761 0 0 60,850 427,032 487,882 2, 184, 643 1,696,761 35

INTERNAL RATE OF RETURN (IRR) = (Note) Same as the note in Table G.4.3

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Table G.4. 5 Calculation of Economic Internal Rate of
Return - Extended the Construction Period

by one year -(UNIT: 1,000 G) PROJECT COSTS TOTAL INCREMENTAL PROJECT PRODUCTION YEAR CONSTRUCT- REPLACE-0 & M BENEFIT RETURN ION COST MENT COST COSTS COST 2,520,110-2,520,1100 2, 520, 110 0 0 0 ĺ 0 : -7,595,9337, 595, 933 0 0 7, 595, 933 0 2 3 0 0 : . 0 0 0 2, 438, 752 0 : 42,070 427,032 1,476,922 -961,830 1,969,650 4 1,374,592 0 : 46,540 427,032 473, 572 1,848,164 0 5 1,605,342 0 : 52,360 427,032 479, 392 2,084,734 6 0 2, 135, 553 480, 372 1,655,181 0 : 53,340 427,032 7 0 486, 252 2, 160, 098 1,673,846 59, 220 427,032 0 : 8 0 0 : 1,696,761 487,882 2, 184, 643 60,850 427,032 0 : 9 0 : 1,696,761 60,850 427,032 487,882 2, 184, 643 0 10 487, 882 2, 184, 643 1,696,761 0 0: 60,850 427,032 11 0 1,696,761 487, 882 2, 184, 643 60,850 427,032 12 0 0 487,882 2, 184, 643 1,696,761 427,032 0 60,850 13 503, 982 2, 184, 643 1,680,661 0 16,100 60,850 427,032 14 1,696,761 60.850 427,032 487, 882 2, 184, 643 15 0 0 577,000 60.850 427,032 1,064,882 2, 184, 643 1, 119, 761 0 16 0 : 427,032 487,882 2, 184, 643 1,696,761 0 60,850 17 0 : 487, 882 2, 184, 643 1,696,761 0 60,850 427,032 18 60,850 427,032 487,882 2, 184, 643 1,696,761 0 0 : 19 0 . : 487, 882 2, 184, 643 1,696,761 60,850 427,032 0. 20 1,696,761 487,882 2, 184, 643 0 : 60,850 427,032 0 21 1,696,761 487,882 2, 184, 643 0 : 60.850 427,032 22 0 1,696,761 60,850 427,032 487, 882 2, 184, 643 23 0 0 : 861,922 2, 184, 643 1, 322, 721 0 374,040 60,850 427,032 24 1, 338, 821 357, 940 60,850 427,032 845, 822 2, 184, 643 25 0 254,742 60,850 427,032 742,624 2, 184, 643 1,442,019 26 . 0 1,590,370 427,032 594, 273 2, 184, 643 27 0 106,391 60,850 1, 171, 273 2, 184, 643 1.013,370 683, 391 60.850 427,032 28 0 1,590,370 106,391 60,850 427,032 594, 273 2, 184, 643 29 0 594, 273 2, 184, 643 1,590,370 0 106,391 60,850 427,032 30 60,850 1,590,370 0 : 427,032 594, 273 2, 184, 643 106, 391 31 2, 184, 643 594, 273 1,590,370 60,850 427,032 32 0 106, 391 1,590,370 594, 273 2, 184, 643 33 0 106, 391 60,850 427,032 164,017 651,899 2, 184, 643 1, 532, 744 34 0 : 60,850 427,032 0 0 : 60.850 427,032 487,882 2, 184, 643 1,696,761 35 427,032 487,882 2, 184, 643 1,696,761 0 0 60,850 36 487,882 2, 184, 643 1,696,761 0 : 427,032 0 60,850 37 0 1,696,761 427,032 487,882 2, 184, 643 38 0 60,850 1,696,761 0 : 487, 882 2, 184, 643 0 60,850 427,032 39 577000 40 0 ... 60,850 427,032 1,064,882 2, 184, 643 1, 119, 761 1,696,761 0 : 0 60,850 427,032 487,882 2, 184, 643 41 1,696,761 0 0 : 60,850 427.032 487,882 2, 184, 643 42 427,032 487,882 2, 184, 643 1,696,761 43 0 0 .: 60.850 0 : 60,850 427,032 487, 882 2, 184, 643 1, 696, 761 44 0 0 : 1,696,761 0 60,850 427,032 487,882 2, 184, 643 45 0 : 487,882 1,696,761 0 60,850 427,032 2, 184, 643 46 487,882 1,696,761 427.032 2, 184, 643 47 0 0 : 60,850 2, 184, 643 1,696,761 48 0 0 : 60.850 427,032 487, 882 49 0 0: 60.850 427,032 487, 882 2, 184, 643 1,696,761 0 : 427,032 487, 882 2, 184, 643 1,696,761 60,850 50 0 085, 693 3, 642, 576 2, 809, 230 20, 070, 504 38, 608, 003 101, 460, 477 62, 852, 474

INTERNAL RATE OF RETURN (IRR) = (Note) Same as the note in Table G. 4.3

11.5%

Table G. 4.6 Calculation of Economic Internal Rate of Return 5 % Less than Anticipation in Produce
(UNIT: 1,000 G)

						: TIMU)	1,000 G)
			PROJECT		·		
YEAR	CONSTRUCT-		0 & M	PRODUCTION	TOTAL	INCREMENTAL	PROJECT
	ION COST	MENT COST	COSTS	COST		BENEFIT	RETURN
1	3,034,967	0	0	0	3,034,967	0	-3,034,967
2	7, 595, 933	0	. 0	0	7, 595, 933	0	-7, 595, 933
3	1, 969, 650	. 0 :	42,070	427.032	2, 438, 752	1,403,076	-1,035,676
4	0	Ö	46, 540	427,032	473, 572	1,755,755	1, 282, 183
5	0	0	52, 360	427,032		1, 980, 497	1, 501, 105
	Ü	0	53, 340	427,032		2,028,775	
6	1.	•			•		1,548,403
7]	0	0.1	59, 220	427,032	for the contract of the contra	2,052,093	1, 565, 841
. 8	0	0	60,850	427, 032	The state of the s	2,075,410	1,587,528
. 9	0	0	60,850	• • • • • • • • • • • • • • • • • • • •		2,075,410	1, 587, 528
. 10	0	0	60,850	427,032	487, 882	2,075,410	1,587,528
11	0	0	60,850	427,032	487, 882	2,075,410	1,587,528
12	0	0	60,850	427,032	487, 882	2,075,410	1,587,528
13	0	16, 100	60,850	427,032	503, 982	2, 075, 410	1,571,428
14	0	0	60,850	427,032	487,882	2,075,410	1,587,528
15	0	577,000	60,850	427,032	1,064,882	2,075,410	1,010,528
16	ŏ		60,850	427,032	487, 882	2,075,410	1,587,528
17	Ö	0	60,850	427,032		2,075,410	1, 587, 528
18	ő	0	60,850	427, 032		2,075,410	1, 587, 528
	,	0	60,850	427,032		2,075,410	
19	U	•			487, 882		1,587,528
20	U	0	60,850	427,032		2,075,410	1, 587, 528
21] 0	0	60,850	427.032		2, 075, 410	1, 587, 528
22	0	0	60,850	427,032	The state of the s	2,075,410	1,587,528
23	0	374,040	60,850	427,032	861,922	2,075,410	1, 213, 488
24	0	357,940	60.850	427,032	845,822	2,075,410	1,229,588
25	0	254,742	60,850	427,032	742,624	2, 075, 410	1, 332, 786
26	0	106, 391	60,850	427,032	594, 273		1, 481, 137
27	0	683, 391	60.850	427,032	1, 171, 273	2,075,410	904, 137
28	ő	106, 391	60,850	427,032	•	2,075,410	1, 481, 137
29	0	106, 391	60,850	427,032	594, 273	2,075,410	1, 481, 137
30	0			427,032		2,075,410	
		106, 391	60,850		594, 273		1, 481, 137
31	0	106, 391	60.850	427,032	594, 273	2,075,410	1, 481, 137
32	0	106, 391	60,850	427, 032		2,075,410	1, 481,:13
33	0	164,017	60,850	427,032		2,075,410	1,423,511
34	0	0 ;	60,850	427,032	487, 882	2, 075, 410	1, 587, 528
35	0	0	60,850	427,032	487, 882	2,075,410	1, 587, 528
36	0	0.0	60,850	427,032	487,882	2,075,410	1,587,528
37	0	0	60,850	427,032	487, 882	2,075,410	1,587,528
38	Ò	i	60,850	427,032	487, 882	2,075,410	1,587,528
39	0	577,000	60,850	427.032	1,064,882	2,075,410	1,010,528
40	0	0 11,000	60,850	427,032	487, 882	2, 075, 410	1, 587, 528
	11111	•		•	•		
41	0	0:	60,850	427,032	487,882	2,075,410	1, 587, 528
42	0	0	60,850	427,032	487, 882	2,075,410	1, 587, 528
43	0	0 ;	60,850	427,032	487,882	2, 075, 410	1, 587, 528
44	0	0	60,850	427,032	487, 882	2,075,410	1, 587, 528
45	0	0	60,850	427,032	487, 882	2.075.410	1, 587, 528
46	0	0	60,850	427,032	487, 882	2,075,410	1, 587, 528
47	0	0	60,850	427,032	487,882	2,075,410	1, 587, 528
48	Ů	0	60,850	427, 032	487.882	2,075,410	1, 587, 528
		0			487, 882	2, 075, 410	1
49	1		60,850	427,032		1	1,587,528
50	0	0	60,850	427, 032		2, 075, 410	1,587,528
TOTAL	1 1Z, 600, 550	3, 642, 576 2	, 870, 080	· ZU, 497, 536	39, 610, 742	HU1, 519, 062	58, 852, 084

INTERNAL RATE OF RETURN (IRR) = (Note) Same as the note in Table G.4.3 11.3%

Table G.4.7 Calculation of Economic Internal Rate of

Return - Investment Exceeds the

Estimates cost by 10%, While 5% less than

Anticipation in Produce - (UNIT : 1,000 G)

10		<u> </u>		DDOIRCT	COSTS		(UNI) :	1,000 07
10H COST MENT COST COSTS COST BENEFIT RETURN 1	umin	DOVIDEDLION	DODL ACD			TOTAL	INCREMENTAL	PROJECT
1 3,338,454 0 0 0 3,338,454 0 -3,338,454 2 8,355,528 0 0 0 8,355,528 0 -8,355,528 3 2,166,615 0 42,070 427,032 2,635,717 1,403,076 -1,232,641 4 0 0 46,540 427,032 473,572 1,755,755 1,832,183 5 0 0 53,340 427,032 480,372 2,028,775 1,548,403 7 0 0 59,220 427,032 486,252 2,075,410 1,587,528 8 0 0 60,850 427,032 487,882 2,075,410 1,587,528 9 0 0 60,850 427,032 487,882 2,075,410 1,587,528 10 0 60,850 427,032 487,882 2,075,410 1,587,528 11 0 0 60,850 427,032 487,882 2,075,410 1,587,528 12 <th>YEAR</th> <td></td> <td></td> <td></td> <td></td> <td>TOTAL</td> <td></td> <td>and the second of the second o</td>	YEAR					TOTAL		and the second of the second o
2 8, 355, 526 0 0 0 8, 355, 526 -8, 355, 526 3 2, 166, 615 0 42, 070 427, 032 2, 635, 717 1, 403, 076 -1, 232, 641 4 0 0 46, 540 427, 032 473, 372 1, 785, 755 1, 82, 183 5 0 0 52, 360 427, 032 440, 372 2, 028, 775 1, 561, 105 6 0 0 53, 340 427, 032 486, 232 2, 075, 410 1, 584, 548 7 0 0 59, 220 427, 032 487, 882 2, 075, 410 1, 587, 528 9 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 11 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 0 60, 850 427, 032 487, 882 2,						. 2 220 161		
3								
4 0 0 46, 540 427, 032 473, 572 1, 755, 755 1, 282, 183 5 0 0 52, 360 427, 032 473, 392 1, 980, 497 1, 501; 105 6 0 0 53, 340 427, 032 480, 372 2, 028, 775 1, 11 1, 584, 188 8 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 9 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 10 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 11 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 13 0 16, 100 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 14 0 0 60, 850 427, 032 487, 882 2, 075, 410 </th <th></th> <th></th> <th></th> <th></th> <th>•</th> <th></th> <th>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</th> <th></th>					•		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
S O S2,360 427,032 479,392 1,380,497 1,501;105 6 O 53,340 427,032 480,372 2,028,775 1,584,403 7 O 59,220 427,032 486,252 2,075,410 1,589,158 8 O 60,850 427,032 487,882 2,075,410 1,587,528 10 O 60,850 427,032 487,882 2,075,410 1,587,528 11 O 60,850 427,032 487,882 2,075,410 1,587,528 12 O 60,850 427,032 487,882 2,075,410 1,587,528 13 O 16,100 60,850 427,032 503,982 2,075,410 1,587,528 14 O 60,850 427,032 487,882 2,075,410 1,587,528 15 O 570,000 60,850 427,032 487,882 2,075,410 1,587,528 16 O 506,850 427,032 487,882 2,07		2, 166, 615				•		
6 0 0 53, 340 427, 032 480, 372 2, 028, 775 1, 548, 403 7 0 0 59, 220 427, 032 486, 252 2, 075, 410 1, 587, 528 8 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 10 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 11 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 13 0 16, 100 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 15 0 577, 000 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 16 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 17		0	•					
7 0 0 59, 220 427, 032 486, 252 2, 075, 410 1, 589, 158 8 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 10 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 11 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 12 0 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 13 0 16, 100 60, 850 427, 032 503, 982 2, 075, 410 1, 587, 528 14 0 0 60, 850 427, 032 1, 084, 882 2, 075, 410 1, 587, 528 15 0 577, 000 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 16 0 60, 850 427, 032 487, 882 2, 075, 410 1, 587, 528 17 0 60, 850 427, 032 487, 882 2, 0	5	0			• • • • •		4 4 5 2 4 5	
7 0 0 59,220 427,932 486,252 2,075,410 1,587,528 9 0 0 60,850 427,032 487,882 2,075,410 1,587,528 10 0 0 60,850 427,032 487,882 2,075,410 1,587,528 11 0 0 60,850 427,032 487,882 2,075,410 1,587,528 12 0 0 60,850 427,032 487,882 2,075,410 1,587,528 13 0 16,100 60,850 427,032 503,982 2,075,410 1,587,528 14 0 0 60,850 427,032 487,882 2,075,410 1,587,528 15 0 577,000 60,850 427,032 487,882 2,075,410 1,587,528 16 0 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528<	6	0						
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9 0 0 60,850 427,032 487,882 2,075,410 1,587,528 11 0 0 0 60,850 427,032 487,882 2,075,410 1,587,528 11 1 0 0 0 60,850 427,032 487,882 2,075,410 1,587,528 13 0 16,100 60,850 427,032 487,882 2,075,410 1,587,528 13 0 16,100 60,850 427,032 487,882 2,075,410 1,571,428 14 0 0 60,850 427,032 487,882 2,075,410 1,587,528 14 0 0 60,850 427,032 487,882 2,075,410 1,587,528 15 0 577,000 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 106,391 60,850 427,032 861,922 2,075,410 1,587,528 19 0 106,391 60,850 427,032 861,922 2,075,410 1,213,488 19 0 0 60,850 427,032 594,273 2,075,410 1,332,786 12 10 106,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 106,591 60,850 427,032 594,273 2,075,410 1,481,137 11 10 106,591 60,850 427,032 594,273 2,075,410 1,481,137 11 10 106,591 60,850 427,032 594,273 2,075,410 1,481,137 11 10 106,591 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 594,273 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 487,882 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 487,882 2,075,410 1,481,137 11 10 1066,391 60,850 427,032 487,882 2,075,410 1,481,137 11 10 1066,391		0	0	60,850	427,032	487, 882	2,075,410	1,587,528
10		l 0	0	60,850	427,032	487,882	2,075,410	1,587,528
11 0 0 60,850 427,032 487,882 2,075,410 1,587,528 12 0 0 60,850 427,032 487,882 2,075,410 1,587,528 14 0 0 60,850 427,032 63,982 2,075,410 1,587,528 15 0 577,000 60,850 427,032 487,882 2,075,410 1,587,528 16 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 <th></th> <th>0</th> <th>0 :</th> <th></th> <th></th> <th>487,882</th> <th>2,075,410</th> <th>1, 587, 528</th>		0	0 :			487,882	2,075,410	1, 587, 528
12 0 0 60,850 427,032 487,882 2,075,410 1,587,528 13 0 16,100 60,850 427,032 503,982 2,075,410 1,571,428 14 0 60,850 427,032 487,882 2,075,410 1,587,528 15 0 577,000 60,850 427,032 487,882 2,075,410 1,010,528 16 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 60,850 427,032		0	0			487,882	2,075,410	1,587,528
13 0 16,100 60,850 427,032 503,982 2,075,410 1,571,428 14 0 60,850 427,032 487,832 2,075,410 1,587,528 15 0 577,000 60,850 427,032 1,864,882 2,075,410 1,587,528 16 0 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 60,850 427,032 861,922 2,075,410 1,587,528 22 <			•		· · · · · · · · · · · · · · · · · · ·			
14 0 0 60,850 427,032 487,882 2,075,410 1,587,528 15 0 577,000 60,850 427,032 1,064,882 2,075,410 1,010,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 60,850 427,032 481,922 2,075,410 1,587,528 23 0 374,046 60,850 427,032 845,922 2,075,410 1,229								
15 0 577,000 60,850 427,032 1,064,882 2,075,410 1,010,528 16 0 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 60,850 427,032 481,882 2,075,410 1,587,528 23 0 374,040 60,850 427,032 841,822 2,075,410 1,23,488 24 0 357,40 60,850 427,032 842,624 2,075,410 1,229,588		1	-					
16 0 0 60,850 427,032 487,882 2,075,410 1,587,528 17 0 0 60,850 427,032 487,882 2,075,410 1,587,528 18 0 0 60,850 427,032 487,882 2,075,410 1,587,528 19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 60,850 427,032 487,882 2,075,410 1,587,528 23 0 374,040 60,850 427,032 861,922 2,075,410 1,213,488 24 0 357,940 60,850 427,032 845,822 2,075,410 1,233,786 25 0 254,742 60,850 427,032 54,273 2,075,410 1,332,786 26		l .						
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19 0 0 60,850 427,032 487,882 2,075,410 1,587,528 20 0 0 60,850 427,032 487,882 2,075,410 1,587,528 21 0 0 60,850 427,032 487,882 2,075,410 1,587,528 22 0 0 60,850 427,032 487,882 2,075,410 1,587,528 23 0 374,040 60,850 427,032 861,922 2,075,410 1,213,488 24 0 357,940 60,850 427,032 845,822 2,075,410 1,229,588 25 0 254,742 60,850 427,032 594,273 2,075,410 1,232,786 26 0 106,391 60,850 427,032 594,273 2,075,410 1,481,137 27 0 683,391 60,850 427,032 594,273 2,075,410 1,481,137 29 0 106,391 60,850 427,032 594,273 2,075,410<		0						
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	TOTAL	13,860,605	3, 642, 576 2	. 870, 080	20, 497, 536	40,870,797	101, 519, 062	57, 615, 346

INTERNAL RATE OF RETURN (IRR) = (Note) Same as the note in Table G. 4.3

Table G.4. 8 Calculation of Economic Internal Rate of

Return - Exchange Rate of US\$ is Equal to

550 G -(UNIT: 1,000 G) PROJECT COSTS INCREMENTAL CONSTRUCT- : REPLACE- : O & M PRODUCTION TOTAL PROJECT YEAR ION COST MENT COST BENEFIT COSTS COST RETURN 2, 316, 127 0 : 2, 316, 127 0 -2,316,1271 . 0 0 : 0 5, 796, 819 0 -5,796,8192 5, 796, 819 1, 503, 134 0 42,070 427,032 1, 972, 236 1,476,922 -495,3143 0 46.540 427,032 473, 572 1,848,164 1, 374, 592 4 0 0 2,084,734 0 : 52,360 427,032 5 479, 392 1,605,342 0 : 1,655,181 0 : 53,340 427,032 480, 372 2, 135, 553 6 0 : 59, 220 427,032 486, 252 7 0 : 2, 160, 098 1,673,846 0 : 427,032 0 : 60,850 487, 882 2, 184, 643 1,696,761 8 0 : 60,850 427,032 487, 882 2, 184, 643 9 0 : 1,696,761 10 0: 0: 60,850 427,032 487, 882 2, 184, 643 1,696,761 1,696,761 0 : 0 : 60,850 427,032 487.882 2, 184, 643 11 0 : 0 : 60.850 427,032 487, 882 2, 184, 643 1,696,761 12 0: 16,100 427,032 503, 982 2, 184, 643 1,680,661 60,850 13 0 : 487, 882 2, 184, 643 60,850 427,032 1,696,761 14 0 0 : 577,000 427,032 1,064,882 2, 184, 643 1, 119, 761 15 60,850 427,032 487,882 2, 184, 643 1,696,761 16 0 : 0 60,850 0 : 0: 2, 184, 643 17 60,850 427,032 487, 882 1,696,761 0 0 60.850 427.032 487, 882 2, 184, 643 1,696,761 18 60,850 1,696,761 427,032 487, 882 2, 184, 643 19 0 : 0 : 0 : 0 : 20 60.850 427,032 487.882 2, 184, 643 1,696,761 0 : 1,696,761 0 : 487,882 2, 184, 643 21 60,850 427,032 0 : 0 : 60,850 427,032 487, 882 2, 184, 643 1,696,761 22 23 0 : 374,040 60,850 427,032 861, 922 2, 184, 643 1, 322, 721 0 : 357,940 60,850 427,032 845,822 2, 184, 643 1, 338, 821 24 254.742 427,032 742.624 2, 184, 643 1.442.019 25 0: 60,850 594, 273 1,590,370 0 : 106, 391 60,850 427,032 2, 184, 643 26 1, 171, 273 683, 391 427,032 2, 184, 643 1,013,370 2.7 0 60,850 0 106, 391 60,850 427,032 594, 273 2, 184, 643 1,590,370 28 106, 391 0 60,850 427,032 594, 273 2, 184, 643 1,590,370 29 106, 391 30 0 60,850 427,032 594, 273 2, 184, 643 1,590,370 31 0 106,391 60,850 427,032 594, 273 2, 184, 643 1,590,370 427,032 0 : 106, 391 60,850 594, 273 2, 184, 643 1,590,370 32 0 : 33 164,017 60,850 427,032 651,899 2, 184, 643 1,532,744 34 0: 0 60,850 427,032 487,882 2, 184, 643 1,696,761 0 0 427,032 487,882 35 60,850 2, 184, 643 1,696,761 36 0 : 60.850 427,032 487, 882 2, 184, 643 1,696,761 0 : 0 60,850 427.032 487,882 2, 184, 643 1,696,761 37 . 0 38 .0: 60,850 427,032 487,882 2, 184, 643 1,696,761 0 : 577,000 1,064,882 2, 184, 643 39 60,850 427,032 1, 119, 761 0 : 0 2, 184, 643 40 60,850 427,032 487, 882 1, 696, 761 0 : 60,850 41 0 427,032 487,882 2, 184, 643 1,696,761 0 42 60.850 427,032 487,882 2, 184, 643 1,696,761 0 : 487,882 43 0 : 80.850 427,032 2, 184, 643 1,696,761 0 : 0 : 60,850 2, 184, 643 487, 882 44 427, 032 1,696,761 0 : 0 60,850 45 427,032 487,882 2, 184, 643 1,696,761 0 : 0 60,850 46 427,032 487, 882 2, 184, 643 1,696,761 0 : 2, 184, 643 47 60:850 427.032 487,882 1,696,761 0: 48 0 60,850 427,032 487,882 2, 184, 643 1,696,761 49 0 : 60,850 427,032 487,882 2, 184, 643 1,696,761 0 : 427,032 487,882 1,696,761 2, 184, 643 50 60,850 9, 616, 080 3, 642, 576 2, 870, 080 20, 497, 536 36, 626, 272 103, 645, 120 67, 018, 848 TOTAL

INTERNAL RATE OF RETURN (IRR) = (Note) Same as the note in Table G. 4.3

15.6%

Table 6.5. 1 Repayment Schedule for Investment

	1st	2nd	3rd	4th	5th	6th	7th	8th		25th	26th	27th
Debt.	3,834,967	7,595,933	4,224,650									
(Case I)				-								
Repayment	106,214	186,214	106,241	106,241	186,241	213,524	213,524	213,524	- op -	213,524	•	ı
5€ 0.035	•	265,858	265,858	265,858	265,858	592,853	534,457	534,457	00 -	534, 457	534,457	1
Grace Period: Syears	-	1	147,872	147,872	147,872	147,872	147,872	297,278	- op	287,278	297,27B	237,278
Total	186,214	372,072	519,971	519,971	519,971	627,254	831,328	1,845,251	op	1,845,251	121, 123	287.278
				-								
(Case []]										:		
	■ 3	-	*	_	_	553, 673	253,683	253, 683	- op -	253, 683	-	
	1	•	1		Ė	-	634,775	634,775	- op _	634,775	834,775	
		-	•	•	-	-	-	353,063	op	353,063	353,963	353,863
Total		. 1	. 1	1	l ·	283,683	888,378	1,241,441	- op -	1,241,441	387,838	353,883

Note: Refer to Table G.4.1 Disbursment Schedule

Table G.5.2 Repayment Schedule on Irrigation Terminal Facilities

								2024 . 1112
	1st	2nd	3rd	4th	5th	6th		.25th
Debt	924,0001							
	[Case I.]							
Repayment	32, 340		op		32, 340	65,014	op	65,014
i = 3.5%	(80.9)				(80.8)	(162.5)	op	(162.5)
Grace Period: 5years [Case II]	[Case II]	I	1	ı	ı	77, 217	op	77,217
	1	ı	1	ı		(193)	op	(193)

Note: Figures in parenthisis are repayment per ha (In case the irrigation area is 400 ha)
1' Refer to Table G.1.1

Table G. 5.3 Repayment Schedule on Water Supply Terminal Facilities

Unit : 1,000

	lst	2nd	3rd	4th	5th	6 th		25th
Debt	77,0001							
	[Case I]							
Repayment	2, 695		op -		2,695	5, 418	op	5, 418
1 8 58	(8.1)				(8.1)	(16.3)	op	(16.3)
	[Case II·]		:					
Grace Period: Syears		1			1	6, 435	op	6, 435
						(19.3)	op	(19.3)

Note: Figures in parenthisis are repayment per house holds (In case the number of beneficiaries is 333 houses) 1/ Refer to Table G.1.1

