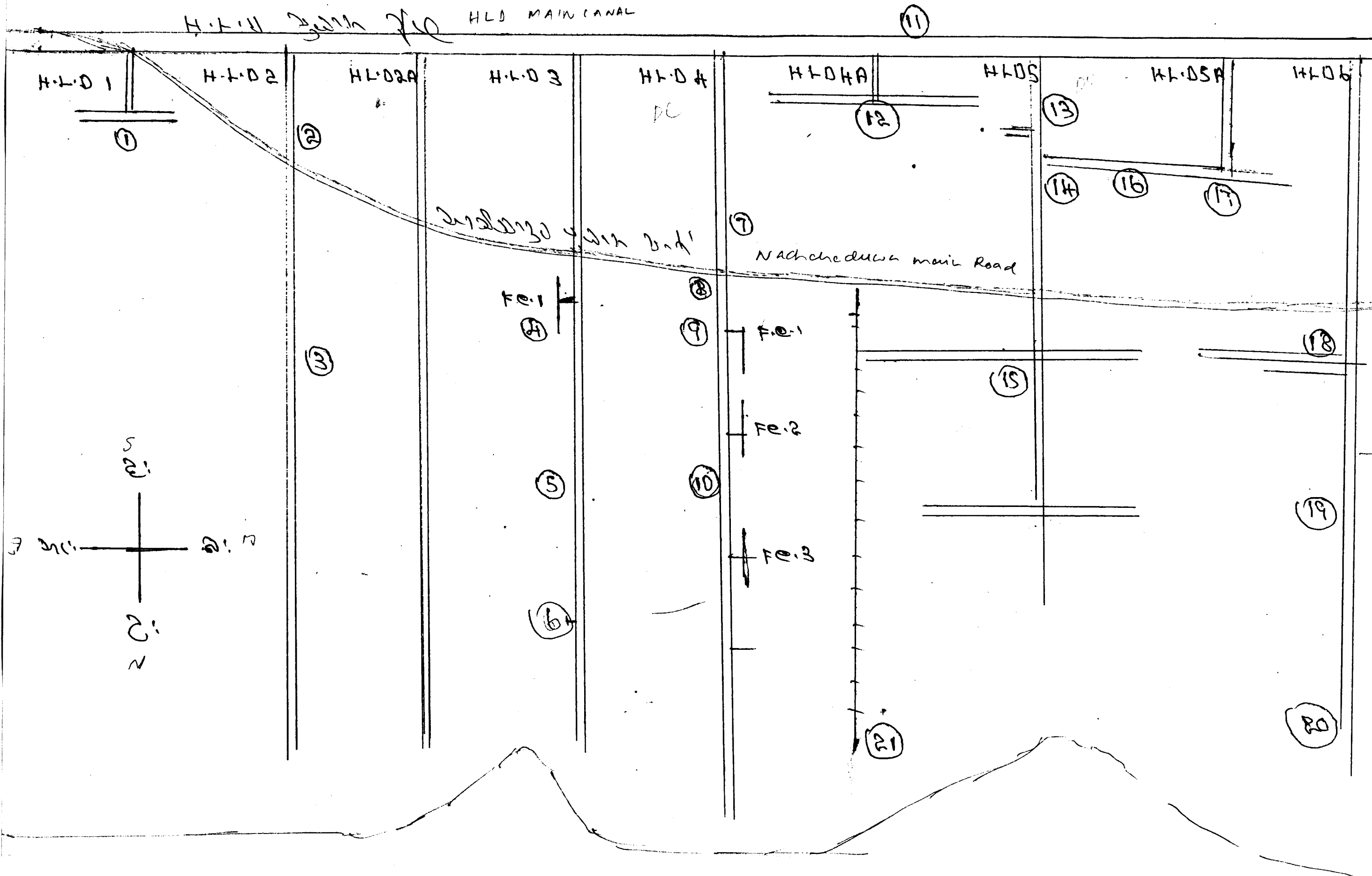


Chapter 1

NACHCHADUWA MAJOR IRRIGATION SCHEME

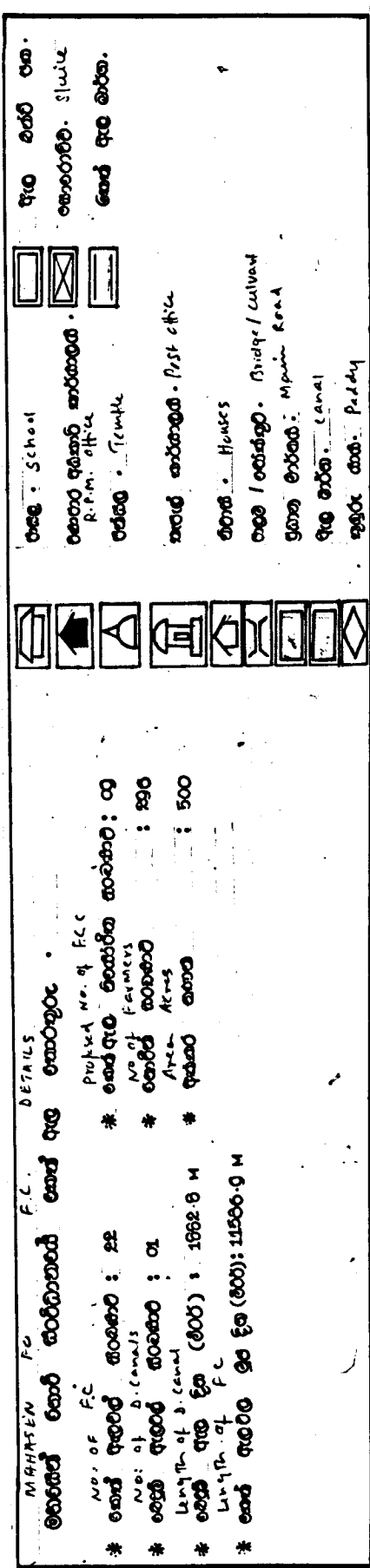
- Rehabilitation and Improvement Plan by Farmers -

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H.T.H. පොදු සමාජ සංවිධානය
HLD MAIN CANAL



Name of Scheme : Nachchaduwa
Name of FO, etc. : Sena Samagi FO (1), HLD1 to 6, Extent of Land 380 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
13	HLD 05	Construction of side walls (both sides) Construction of 100 ft long 2 ft wide 2 ft high side walls on both sides of canal	L 100 ft W 2 ft H 2 ft	Included in rehabilitation plan of Irrigation Department of HLD5				
14	HLD 05	Construction of side wall Construction 10 ft long 2 ft wide 1 ft high side wall	L 10 ft W 2 ft H 1 ft	RRM 1 cu Earth works 2 cu Metal 1 cu	3,200 2,600	Skilled 1 days Labors 5 days Labors 4 days Labors 2 days	275 875 700 350	875 700 350
15	HLD 05	Construction of concrete side wall Construction of a 10 ft long 6 inch wide 2 ft high concrete side wall	L 10 ft W 6 ft H 2 ft	Concrete - 1 cube Earth works 2 cu	8,200	Skilled - 1 days Labour - 8 days Labors 4 days	275 1,400 700	1,400 700
16	HLD 05 canal road	Earth filling (gravel) Earth filling 1 km on HLD 05 to 5A and rehabilitation	L 1 km W 3m	Earth - 159 cu Gravel - 88 cu	79,500 176,000	Labors 353 days Labors 195 days	61,775 34,125	61,775 34,125
17	HLD 05A	Construction of a side wall with earth Construct 200 ft long 2 ft wide 2 ft high earth wall (canal bund)	L 200 ft W 2 ft H 2 ft	Earth - 21 cubes	10,500	Labors 47 days	8,225	8,225
18	HLD 06	Construction of a side wall (rubble) Construction of 10 ft long 1 ft wide 2 ft high rubble masonry wall	L 10 ft W 1 ft H 2 ft	RRM 1 cu Earth works 2 cu Metal 1 cu	3,200 2,600	Skilled 1 days Labors 5 days Labors 2 days Labors 2 days	275 875 350 350	875 350 350
19	HLD 06	Earth filling (gravel) canal road Earth filling 1 km on HLD 06 canal road and rehabilitation	L 1 km W 3m	Earth - 159 cu Gravel - 88 cu	79,500 176,000	Labors 353 days Labors 195 days	61,775 34,125	61,775 34,125
20	HLD 06	Construction of a side wall Construction of a 200 ft long 2 ft high side wall with bricks	L 200 ft H 2 ft	RRM 9 cu Earth works 30 cu Metal 2 cu	28,800 5,200	Skilled 7 days Labors 45 days Labors 67 days Labors 4 days	1,925 7,875 11,725 700	7,875 11,725 700
21	Drain canal between HLD 04 and HLD 05	Clearing drain canal Digging 75 m long 4 ft wide 2 ft deep drain canal	L 75 m W 4 ft H 2 ft	Earth works 29 cu		Labors 64 days	11,200	11,200
	Sub-total				1,265,550		540,450	527,800
	Grand-total				1,806,000			
	(US\$/ha)				165			

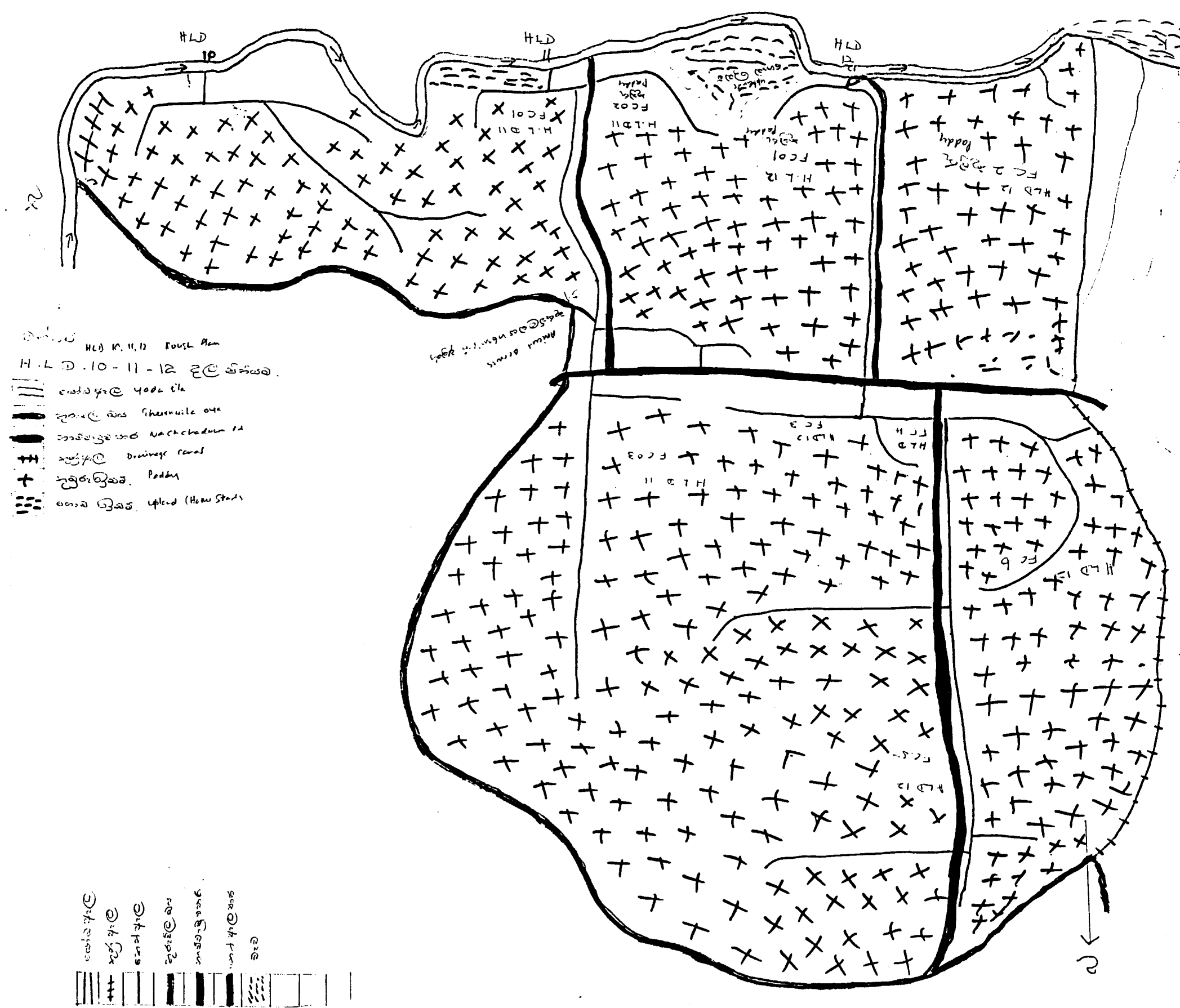


Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
 Name of FO, etc. : Mahasen FO (2), HLD7 to 9, Extent of Land 498 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	FC 01 side wall	Must construct a ruble wall	L 100 m W 2' H 2 1/2' - both sides	RRM 27 cu Earth works 50 cu Metal 3 cu	86,400 7,800	Skilled 20 days Labors 135 days Labors 111 days Labors 7 days	5,500 23,625 19,425 1,225	23,625 19,425 1,225
2	FC 01 - cross canal	Must construct a ruble wall	L 20m W 2' H 2 1/2' - both sides	RRM 4 cu Earth works 10 cu Metal 1 cu	12,800 2,600	Skilled 3 days Labors 20 days Labors 22 days Labors 2 days	825 3,500 3,850 350	3,500 3,850 350
3	FC 02	Must construct a ruble wall	L 200m W 2' H 2 1/2' - both sides	RRM 36 cu Earth works 100 cu Metal 6 cu	115,200 15,600	Skilled 27 days Labors 180 days Labors 222 days Labors 13 days	7,425 31,500 38,850 2,275	31,500 38,850 2,275
4	FC 02 - cross canal	Must construct a ruble wall	L 100 m W 2' H 2 1/2' - both sides	RRM 27 cu Earth works 50 cu Metal 3 cu	86,400 7,800	Skilled 20 days Labors 135 days Labors 111 days Labors 7 days	5,500 23,625 19,425 1,225	23,625 19,425 1,225
5	FC 04 - side wall	Must construct a ruble wall	L 310m W 2' H 2 1/2' - both sides	RRM 56 cu Earth works 155 cu Metal 10 cu	179,200 26,000	Skilled 42 days Labors 280 days Labors 344 days Labors 22 days	11,550 49,000 60,200 3,850	49,000 60,200 3,850
6	FC 05 1 2 3	Three sluice with doors	must supply 3 sluice doors	Included in rehabilitation plan of Irrigation Department of HLD7				
7	FC 05 up to R.3	Must construct a side wall of FC from land side	L 500 ft W 1 1/2' H 2 1/2' both sides	Included in rehabilitation plan of Irrigation Department of HLD7				
8	FC 06 to FC 08 FC 06 field canal FC 06 structure	Must construct a ruble masonry wall (D canal) About 250m field canal earth bund should concrete	L 600 ft W 2 H 2 1/2' both sides L 250m both sides - earth bund	RRM 78 cu Earth works 216 cu Metal 14 cu	249,600 36,400	Skilled 59 days Labors 390 days Labors 480 days Labors 31 days	16,225 68,250 84,000 5,425	68,250 84,000 5,425
9	FC 09 beginning & middle	Construction of drop (Rubble masonry wall) Concrete basin (Rubble masonry wall) Construction of a culvert (Rubble masonry wall)	L 20' W 1 1/2' H 2 1/2' L 25' W 1 1/2' H 2 1/2' L 65' W 1 1/2' H 2 1/2'	RRM 6 cu Earth works 17 cu Metal 1 cu HP dia 300mm - 30 ft.	19,200 2,600 10,500	Skilled 5 days Labors 30 days Labors 38 days Labors 2 days	1,375 5,250 6,650 350	5,250 6,650 350
10	Fc 09 End drain	Earth filling 40 (10' x 10' x 10')		Earth 1 cu	250	Labors 2 days	350	350
11	Fc 10	Concreting (10 - 1 ft) one wall Concreting (10 - 1 ft) one wall	Length 20 ft Length 450 ft (one side)	RRM 13 cu Earth works 72 cu Metal 2 cu	41,600 5,200	Skilled 10 days Labors 65 days Labors 160 days Labors 4 days	2,750 13,650 20,650 700	13,650 20,650 700
12	Hidogama spill canal	Construction of a side wall		Concrete 5 cu Earth works 10 cu Metal 1 cu	41,000 2,600	Skilled 5 days Labors 39 days Labors 22 days Labors 2 days	1,375 6,825 3,850 350	6,825 3,850 350

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
13	HLD 8 FC02	FC Rubble masonry wall	L 60' W 1 1/2 H 2'	RRM 3 cu Earth works 9 cu Metal 1 cu	9,600 2,600	Skilled 2 days Labors 15 days Labors 20 days Labors 2 days	550 2,625 3,500 350	2,625 3,500 350
		Construction of a water tank	For water distribution	Earth works 20 cu Others	5,000	Labors 44 days	7,700	7,700
		Construction of regulator	Construction of regulator	Slide gate W1.00xH0.50 Slide dia. 300 gate Concrete 1 cu Earth works 1 cu	150,000 11,500 16,400	Skilled 1 days Labors 8 days Labors 2 days	275 1,400 350	1,400 350
		Preparation of canal bund	Earth work of FC 500 ft long	Earth works 16 cu	13,000	Labors 36 days	6,300	6,300
14	HLD 8 FC 1	Construction of water tank	Repairs of FC 1 canal	Earth works 20 cu Others	5,000	Labors 44 days	7,700	7,700
		Construction of side wall	Repairs of FC 1 canal L 30 m	Concrete 5 cu Earth works 10 cu Metal 1 cu	41,000 2,600	Skilled 5 days Labors 39 days Labors 22 days Labors 2 days	1,375 6,825 3,850 350	6,825 3,850 350
		Construction of regulator	Repairs of FC 1 canal	Slide dia. 300 gate Concrete 1 cu Earth works 1 cu	11,500 16,400	Skilled 1 days Labors 8 days Labors 2 days	275 1,400 350	1,400 350
		Provision of a hume pipe	Repairs of FC 1 canal	HP dia 300mm - 30 ft.	10,500			
15	HLD 9 & 9A	All the structures should be repaired	Rubble masonry wall L 100 m	RRM 18 cu Earth works 50 cu Metal 3 cu	64,000 50 7,800	Skilled 15 days Labors 100 days Labors 133 days Labors 9 days	4,125 17,500 23,275 1,575	17,500 23,275 1,575
16	HLD 7 D canal	Side wall of D canal between FC 02 and FC 03	Side wall of the canal with the bridge on cemetry road	Included in rehabilitation plan of Irrigation Department of HLD7				
17	HLD 7 D canal	From FC 5 regulator/sluice to FC6 to 10 field canal Construction of a sluice with a door near the water issuing culvert	Construction of a sluice with a door near the water issuing culvert	Included in rehabilitation plan of Irrigation Department of HLD7				
18	Dumping earth (gravel) to Field canal roads		gravel 500 loads	Gravel 200 cu	400,000	Labors 200 days	1,000	1,000
	Sub-total				1,715,700		643,400	584,275
	Grand-total				2,359,100			
	(US\$/ha)				165			



Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization (1/2)

Name of Scheme : Nachchaduwa
 Name of FO, etc. : Parakrama FO (3), HLD10 to 17, Extent of Land 575 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	HLD 11 /FC2 FC1 Canal	Concreting side walls and bottom of the canal (RC Canal)	L 65' ft W 3' ft H 3' ft	Concrete 4 cu	32,800	Skilled 4 days	1,100	5,425
				Metal 1cu	2,600	Labors 31 days	5,425	
				Earth works 10 cu		Labors 2 days	350	
	HLD 11 /FC2 Side wall of rubble masonry	One side wall should be constructed	L 15' ft, H 3' ft	RRM 1 cu	3,200	Labors 22 days	3,850	3,850
2	HLD 11 /FC2 Side wall of rubble masonry	One side wall should be constructed	L 15' ft, H 3' ft	RRM 1 cu	3,200	Skilled 1 days	275	875
						Labors 5 days	875	
						Labors 2 days	350	
3	HLD 12 / FC2 Repair regulator Basin & earth filling	Earth filling	Length 10' ft, W 3' ft, H 1' ft	RRM 1 cu	3,200	Skilled 1 days	275	875
						Labors 5 days	875	
						Labors 4 days	700	
4	HLD 12 / FC2 Repair regulator Basin & earth filling	Earth filling	Length 10' ft, W 3' ft, H 1' ft	RRM 1 cu	3,200	Skilled 1 days	275	875
						Labors 5 days	875	
						Labors 4 days	700	
5	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1'	Earth works 1 cu	250	Labors 2 days	350	350
6	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1'	Earth works 1 cu	250	Labors 2 days	350	350
7	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1'	Earth works 1 cu	250	Labors 2 days	350	350
8	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1'	Earth works 1 cu	250	Labors 2 days	350	350
9	HLD 12 / FC2	Construction of side walls of culvert and fixing door		Concrete 1 cu	8,200	Skilled 1 days	275	1,400
						Labors 8 days	1,400	
				HP dia. 600mm	14,000			
				Slide gate dia. 300	11,500			
10	HLD 12 / FC2	Construction of side walls of culvert and fixing door		Earth works 1 cu		Labors 2 days	350	350
				Others	2,000			
11	HLD 12 / FC2	Construction of farm gate		Concrete 1 cu	8,200	Skilled 1 days	275	1,400
						Labors 8 days	1,400	
				HP dia.6"	2,100			
				Earth works 1 cu		Labors 2 days	350	
12	HLD 11 /FC2	Construction of a new road	L 500m Width 12' ft	Others	2,000			350,000
				Earth - 901 cubes	225,250	Labors 2000 days	350,000	
				Gravel - 106 cubes	212,000	Labors 235 days	41,125	41,125

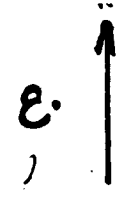
No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
13	HLD 11 /FC2	Construction of	L 500m, W 3' ft	Earth 200 cubes	100,000	Labors 444 days	77,700	77,700
14	HLD 11 /FC2	Side wall of	L 150m	RRM 27 cu	86,400	Skilled 20 days	5,500	23,625
						Labors 135 days	23,625	
				Earth works 75 cu		Labors 167 days	29,225	
15	HLD 11 /FC2	2 small culverts	4 hume pipes for	Metal 5 cu	13,000	Labors 11 days	1,925	1,925
	HLD 11 /FC2			RRM 4 cu	12,800	Skilled 3 days	825	3,500
						Labors 20 days	3,500	
				HP 24" - 40 ft	28,000			
16	HLD 11 /FC2	Side wall of	L 100m	Earth works 4 cu		Labors 9 days	1,575	1,575
	HLD 11 /FC2			Metal 2 cu	5,200	Labors 4 days	700	700
17	HLD 11 /FC2	Two culverts for		RRM 18 cu	57,600	Skilled 14 days	3,850	15,750
						Labors 90 days	15,750	
	HLD 11 /FC2			Earth works 50 cu		Labors 111 days	19,425	19,425
18	HLD 11 /FC3 upper section	Side wall of	L 100m	Metal 3 cu	7,800	Labors 7 days	1,225	1,225
19	HLD 11 /FC3 upper section	Two culverts for		RRM 4 cu	12,800	Skilled 3 days	825	3,500
						Labors 20 days	3,500	
				HP 24" - 40 ft	28,000			
	HLD 11 /FC3			Earth works 4 cu		Labors 9 days	1,575	1,575
20	HLD 11 /FC3	FC 3 lower section	L 500 m, W 1m H 2 1/2 ft	Metal 2 cu	5,200	Labors 4 days	700	700
21	HLD 11 /FC3	D-Canal	L 150m	RRM 34 cu	108,800	Skilled 26 days	7,150	29,750
						Labors 170 days	29,750	
				Earth works 75 cu		Labors 167 days	29,225	
22	HLD 11 /FC3	FC3 Field canal	L 350m	Metal 5 cu	13,000	Labors 11 days	1,925	1,925
23	HLD 11 /FC3	FC3 additional field	L 200m, W 3' ft H 2 ft	Concrete 78 cu	639,600	Skilled 78 days	21,450	105,875
						Labors 605 days	105,875	
				Earth works 175 cu		Labors 389 days	68,075	
24	HLD 11 /FC3	Field canal road	Length 1 km	Metal 26 cu	67,600	Labors 58 days	10,150	10,150
25	HLD 11 /FC3			Concrete 93 cu	762,600	Skilled 93 days	25,575	126,175
						Labors 721 days	126,175	
				Earth works 250 cu		Labors 555 days	97,125	
26	HLD 11 /FC3			Metal 37 cu	96,200	Labors 82 days	14,350	14,350
27	HLD 11 /FC3			Earth - 68 cubes	17,000	Labors 151 days	26,425	26,425
28	HLD 11 /FC3			Gravel - 88 cu	176,000	Labors 195 days	34,125	34,125

Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization (2/2)

Name of Scheme : Nachchaduwa
 Name of FO, etc. : Parakrama FO (3), HLD10 to 17,

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participati on
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
23	FC 3	FC 3 Field canal Entire field canal should be re-constructed with concrete	Length 1200' ft, W 3' ft H 1 1/2' ft	Concrete 50 cu Earth works 183 cu Metal 25 cu	410,000 65,000	Skilled 50 days Labors 388 days Labors 406 days Labors 56 days	13,750 67,900 71,050 9,800	67,900 71,050 9,800
23	FC3	Common threshing yard	2500 sq. ft	Earth - 40 cubes	20,000	Labors 89 days	15,575	15,575
24	FC3	Culvert near FC3 Construction of a culvert	Length 8' ft Width 8' ft	RRM 2 cu HP 24" - 20 ft Earth works 2 cu Metal 1 cu	6,400 14,000 2,600	Skilled 2 days Labors 10 days Labors 4 days Labors 2 days	550 1,750 700 350	1,750 700 350
25	HLD 12 FC 4 & 5	Concreting the D canal Concreting both sides and bottom of canal 4" inches thick	Length 1/2 km, W 3' ft, H 3 1/2' ft	Concrete 107 cu Earth works 250 cu Metal 34 cu	877,400 88,400	Skilled 107 days Labors 829 days Labors 505 days Labors 75 days	29,425 145,075 88,375 13,125	145,075 88,375 13,125
26	HLD 12 FC 4 & 5	FC 4 field canal Concreting both sides and bottom of canal4" inch thick	Length 1/2 km, W 3' ft, H 3 1/2' ft	Concrete 107 cu Earth works 250 cu Metal 34 cu	877,400 88,400	Skilled 107 days Labors 829 days Labors 505 days Labors 75 days	29,425 145,075 88,375 13,125	145,075 88,375 13,125
27	HLD 12 FC 4 & 5	FC5 field canal Side wall	Length 1/2 km, W 9" inch H 4' ft	RRM 138 cu Earth works 250 cu Metal 16 cu	441,600 41,600	Skilled 104 days Labors 690 days Labors 555 days Labors 36 days	28,600 120,750 97,125 6,300	120,750 97,125 6,300
28	HLD 12 FC 4 & 5	FC 5 Additional canal Concreting both sides and bottom of canal - 4" inch thick	Length 400m W 2 1/2' ft H 3' ft	Concrete - 74 cu Metal - 24 cube Earth works 200 cu	606,800 62,400	Skilled 74 days Labors 574 days Labors 53 days Labors 444 days	20,350 100,450 9,275 77,700	100,450 9,275 77,700
29	HLD 12 FC 4 & 5	Threshing yard Repair the threshing yard	2500 sq. ft	Earth - 40 cubes	20,000	Labors 89 days	15,575	15,575
30	HLD 12 FC 4 & 5	Field canal road Earth filling - surface gavel	Length 2 km W 3 m	Earth - 318 cu Gravel - 177 cu	159,000 354,000	Labors 706 days Labors 393 days	123,550 68,775	123,550 68,775
31	HLD 12 FC 4 & 5	2 culverts for threshing yard 1 1/2' ft dia and 2' ft dia	Length 16' ft	HP dia 450mm - 20 ft. HP dia 600mm - 20 ft. Concrete 4 cu Earth works 4 cu Metal 2 cu	10,800 14,000 32,800 5,200	Skilled 4 days Labors 31 days Labors 9 days Labors 2 days	1,100 5,425 1,575 350	5,425 1,575 350

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participati on
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
32	HLD 12 FC 4 & 5	Field canal road	Length 16' ft	HP 450mm - 200 ft. Concrete 20 cu Earth works 20 cu Metal 10 cu	108,000 164,000 26,000	Skilled 20 days Labors 155 days Labors 44 days Labors 22 days	5,500 27,125 7,700 3,850	27,125 7,700 3,850
33	HLD 12 / FC6	Replacement of sluice door of field canal		Slide gate dia. 300 - 2	23,000			
34	HLD 12 / FC6	Side walls of FC2 6" x 9" rubble masonry	Length 500' ft H 3 1/2' ft	RRM 37 cu Earth works 76 cu Metal 5 cu	118,400 13,000	Skilled 28 days Labors 185 days Labors 169 days Labors 11 days	7,700 32,375 29,575 1,925	32,375 29,575 1,925
35	HLD 12 / FC6	Rehabilitation of anicut 4" inch thick concrete wall	Length 120' ft, W 3' ft H 3 1/2' ft	Concrete - 17 cu Metal - 4 cu Earth works 18 cu	139,400 10,400	Skilled 17 days Labors 132 days Labors 9 days Labors 40 days	4,675 23,100 1,575 7,000	23,100 1,575 7,000
36	HLD 12 / FC6	FC6 field canal 6" x 9" rubble masonry wall at end of FC on both sides	Length 124' ft, W 3' ft H 3 1/2' ft	RRM 9 cu Earth works 19 cu Metal 1 cu	28,800 2,600	Skilled 7 days Labors 45 days Labors 42 days Labors 2 days	1,925 7,875 7,350 350	7,875 7,350 350
37	HLD 12 / FC6	FC5 Field canal 6" x 9" rubble masonry wall at end of FC on both sides	Length 125' ft, W 3' ft H 3 1/2' ft	RRM 9 cu Earth works 19 cu Metal 1 cu	28,800 2,600	Skilled 7 days Labors 45 days Labors 42 days Labors 2 days	1,925 7,875 7,350 350	7,875 7,350 350
38	HLD 12 / FC6	Construction of 5 culverts		HP 450mm - 100 ft. Concrete 10 cu Earth works 10 cu Metal 5 cu	54,000 82,000 13,000	Skilled 10 days Labors 78 days Labors 22 days Labors 11 days	2,750 13,650 3,850 1,925	13,650 3,850 1,925
39	FC1	Side wall of FC1	Length 250' ft W 1' ft H 3' ft	RRM 16 cu Earth works 38 cu Metal 2 cu	51,200 5,200	Skilled 12 days Labors 80 days Labors 84 days Labors 4 days	3,300 14,000 14,700 700	14,000 14,700 700
40	FC1	Threshing yard	2000 sq. ft	Earth - 40 cubes	20,000	Labors 89 days	15,575	15,575
41	HLD 12 / FC1	Total length of the canal is	Additional canal both sides concreted	Concrete 1 cu Earth works 1 cu Metal 1 cu	8,200 2,600	Skilled 1 days Labors 8 days Labors 2 days Labors 2 days	275 1,400 350 350	1,400 350 350
42	HLD 12 / FC1	Sluice door of canal is		Slide gate dia. 300	11,500			
	Sub-total				7,997,150		2,936,050	2,716,875
	Grand-total				10,933,200			
	(US\$/ha)				662			



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HLD 13 සි 17 දක්වා

HLD 13 - HLD 17

Kaluarachchiyagama Tank

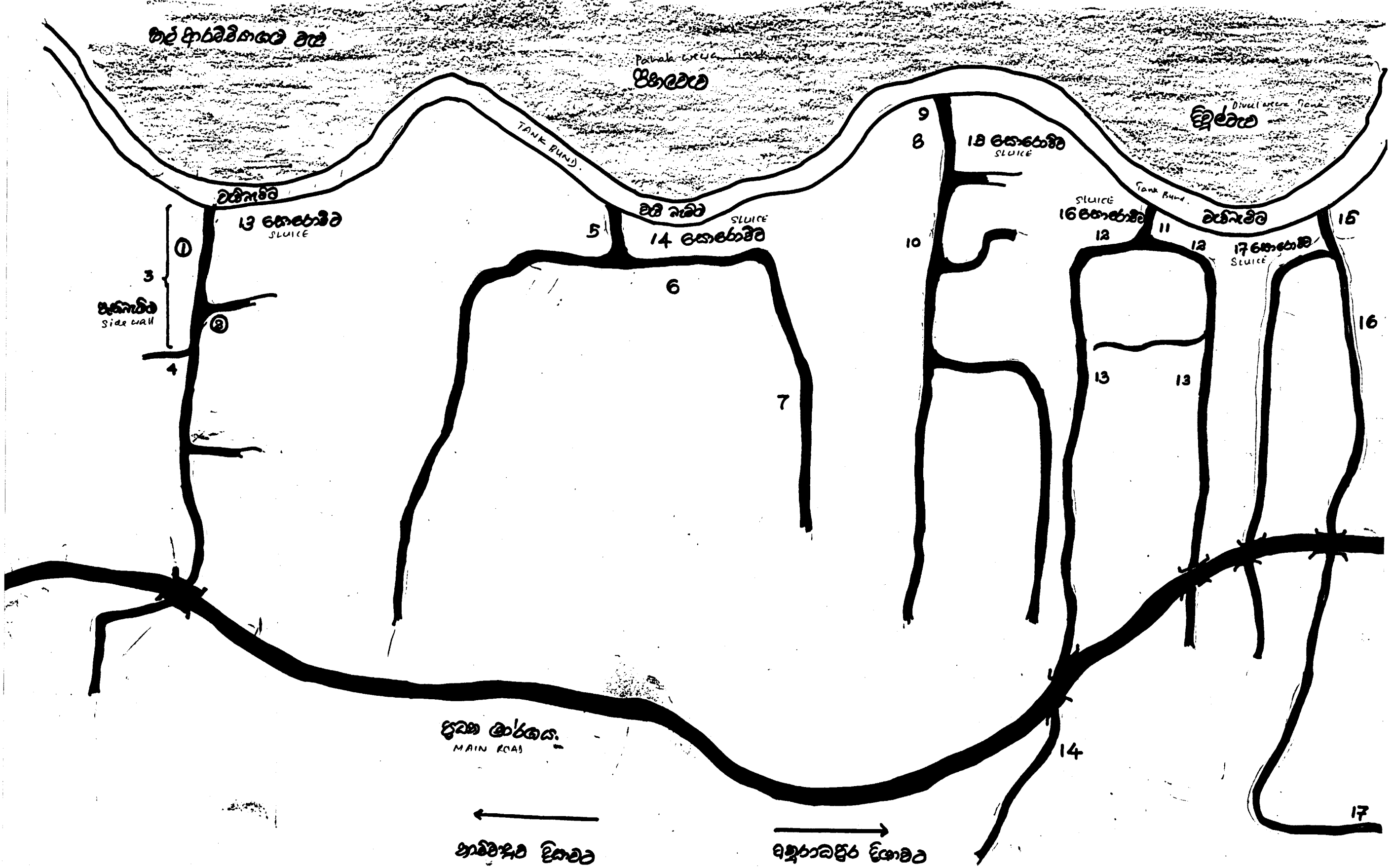
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Pothala Wele Tank

පොතලා වෙලා

Divulawala Tank

ඩිවුලාලා



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MAIN ROAD

නාච්ඡායා දිසාවට
TO NACHCHAYYA

අනුරාධපුර දිසාවට
TO ANURADHAPURA

The Study for the Potential Realization of Irrigated Agriculture
in the Dry and Intermediate Zones of Sri Lanka
Japan International Cooperation Agency (JICA)

Rehabilitation and Improvement Plan of Irrigation Infrastructure
by Samagi DC Farmers' Organisation

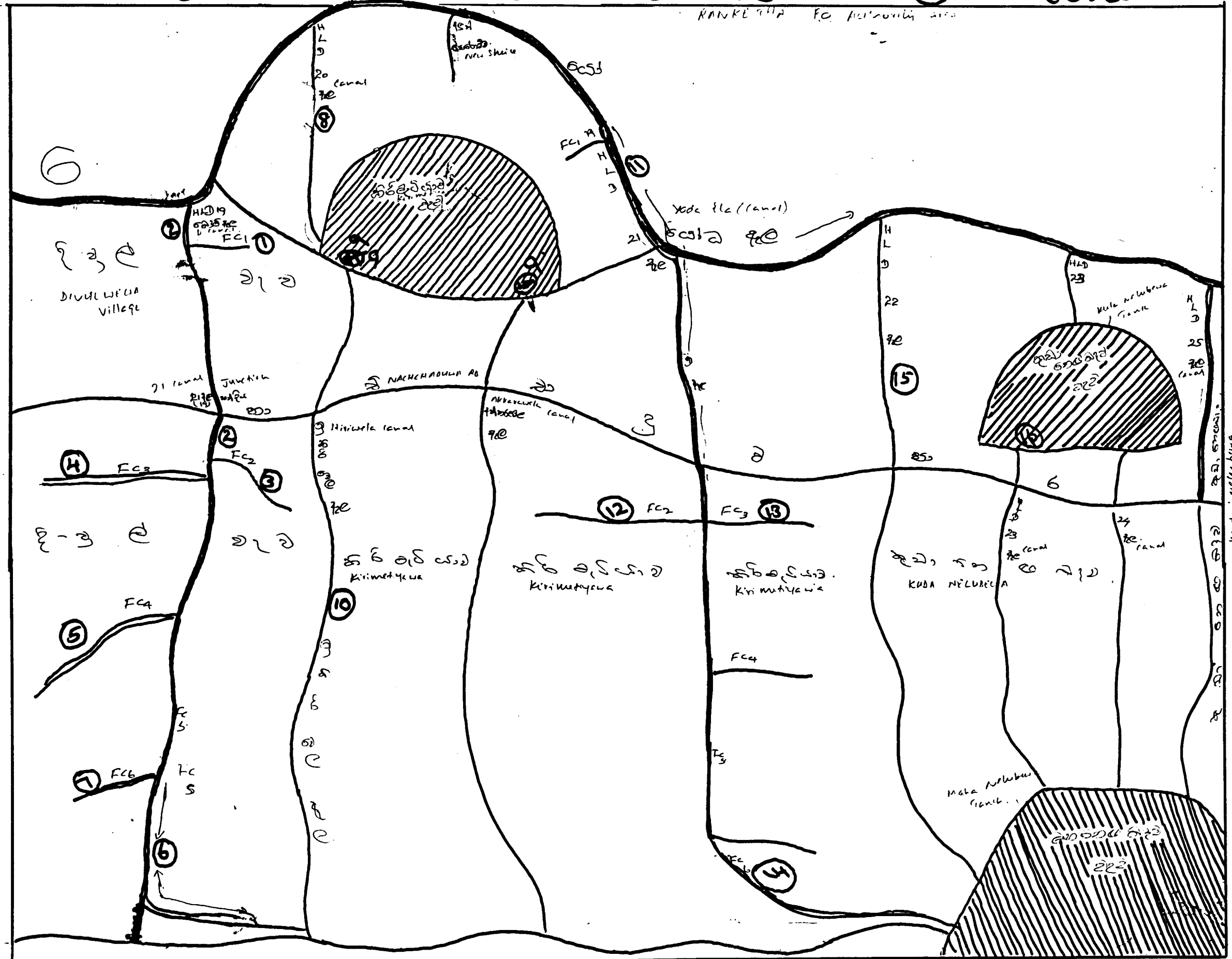
Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Samagi FO (4), HLD 13 to 17, Extent of Land 374 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participati
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	Water issuing end of sluice	Concreting the FC bottom	L 20 m, W 3 ft H 2 ft	Concrete 3 cu	24,600	Skilled 3 days	825	4,025
				Earth works 10 cu		Labors 23 days	4,025	
				Metal 1 cu	2,600	Labors 22 days	3,850	
						Labors 2 days	350	350
				Concrete 1 cu	8,200	Skilled 1 days	275	1,400
				Earth works 1 cu		Labors 8 days	1,400	
2	Construction of a small sluice to provide water to 6 acres of paddy	Construction of a small scale sluice (door) from main canal to provide water to paddy lands.		Slide gate dia. 300 1 nos	11,500	Labors 2 days	350	
				HP dia.12" 20 ft	7,000			350
3	Construction of a side wall	Starting from 200m from main sluice (13) construction of a side wall	L 200 m H 4 ft	RRM 55 cu	176,000	Skilled 41 days	11,275	48,125
				Earth works 100 cu		Labors 275 days	48,125	
				Metal 6 cu	15,600	Labors 222 days	38,850	
						Labors 13 days	2,275	2,275
				Concrete 2 cu	16,400	Skilled 2 days	550	2,800
				Earth works 2 cu		Labors 16 days	2,800	
4	Construction of a door to distribute water	Construction of 2 doors for dual water issue from the end of the above side wall		Slide gate dia. 300 2 nos	23,000	Labors 4 days	700	
				HP dia.12" 40 ft	14,000			700
5	D canal - bottom	Concreting the bottom of D canal which provides water to FC from sluice	L 50 m W 4 ft H 4 ft	Concrete 14 cu	114,800	Skilled 14 days	3,850	19,075
				Earth works 25 cu		Labors 109 days	19,075	
				Metal 4 cu	10,400	Labors 56 days	9,800	
						Labors 9 days	1,575	1,575
				RRM 23 cu	73,600	Skilled 17 days	4,675	20,125
				Earth works 100 cu		Labors 115 days	20,125	
6	Field canal	Construction of side wall where FC divides into two	L 200 m H 1 1/2 ft	Metal 6 cu	15,600	Labors 222 days	38,850	
						Labors 13 days	2,275	2,275
7	Deeping the main canal	Deeping the main canal		Desilting 100 cu		Labors 222 days	38,850	38,850
8	Concreting the FC from end of D canal	Length 200 - 350 m	L 350 m W 2 ft H 1 1/2 ft	Concrete 41 cu	336,200	Skilled 41 days	11,275	55,650
				Earth works 175 cu		Labors 318 days	55,650	
				Metal 17 cu	44,200	Labors 389 days	68,075	
9	Deeping the D canal	Deepen up to 6' ft 9" inches				Labors 38 days	6,650	6,650
				Desilting 100 cu		Labors 222 days	38,850	38,850

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participati
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
10	Repairs to water distribution points	Repairing each water distribution structure with concrete		Concrete 1 cu	8,200	Skilled 1 days	275	1,400
				Earth works 1 cu		Labors 8 days	1,400	
				Slide gate dia. 300 1 nos	11,500	Labors 2 days	350	
				HP dia.12" 20 ft	7,000			350
11	Repairs to bottom of main canal at water issue point to D canal	Concreting the bottom of water issuing point to prevent leakage.	L 20 m, W 3 ft H 2 ft	Concrete 3 cu	24,600	Skilled 3 days	825	4,025
				Earth works 10 cu		Labors 23 days	4,025	
				Metal 1 cu	2,600	Labors 22 days	3,850	
						Labors 2 days	350	350
				RRM 17 cu	54,400	Skilled 13 days	3,575	14,875
				Earth works 75 cu		Labors 85 days	14,875	
12	Side wall	Construction of a side wall in the field canal from end of D canal to east & west 75 m length	L 150 m H 1 1/2 ft	Metal 5 cu	13,000	Labors 167 days	29,225	
						Labors 11 days	1,925	1,925
13	Deeping the field canal	Deeping the field canal for 30 meters closer to		Earth works 30 cu		Labors 67 days	11,725	11,725
14	Construction of a cross canal	Construction of a cross canal with rubble masonry just below Nachchaduwa Main road		HP dia. 600mm 20 ft	14,000	Skilled 2 days	550	2,800
				Concrete 2 cu	16,400	Labors 16 days	2,800	
				Earth works 2 cu		Labors 4 days	700	
				Metal 1 cu	2,600	Labors 2 days	350	350
15	Rehabilitation of sluice wall bottom	Prevent the water leakage from issue point and concreting the bottom of sluice wall	L 20 m, W 3 ft H 2 ft	Concrete 3 cu	24,600	Skilled 3 days	825	4,025
				Earth works 10 cu		Labors 23 days	4,025	
				Metal 1 cu	2,600	Labors 22 days	3,850	
						Labors 2 days	350	350
				Concrete 47 cu	385,400	Skilled 47 days	12,925	63,700
				Earth works 150 cu		Labors 364 days	63,700	
16	Field canal from Tank	Concreting 300 m of field canal (both sides) up to Nachchaduwa main road	L 300 m, W 3 ft H 2 ft	Metal 20 cu	52,000	Labors 333 days	58,275	
						Labors 44 days	7,700	7,700
17	End of field canal	Construction of rubble masonry at the end of FC	L 300 m H 1 1/2 ft	RRM 35 cu	112,000	Skilled 26 days	7,150	30,625
				Earth works 150 cu		Labors 175 days	30,625	
				Metal 10 cu	26,000	Labors 333 days	58,275	
						Labors 22 days	3,850	3,850
	Sub-total				1,650,600		763,575	704,725
	Grand-total				2,414,175			
	(US\$/ha)				225			

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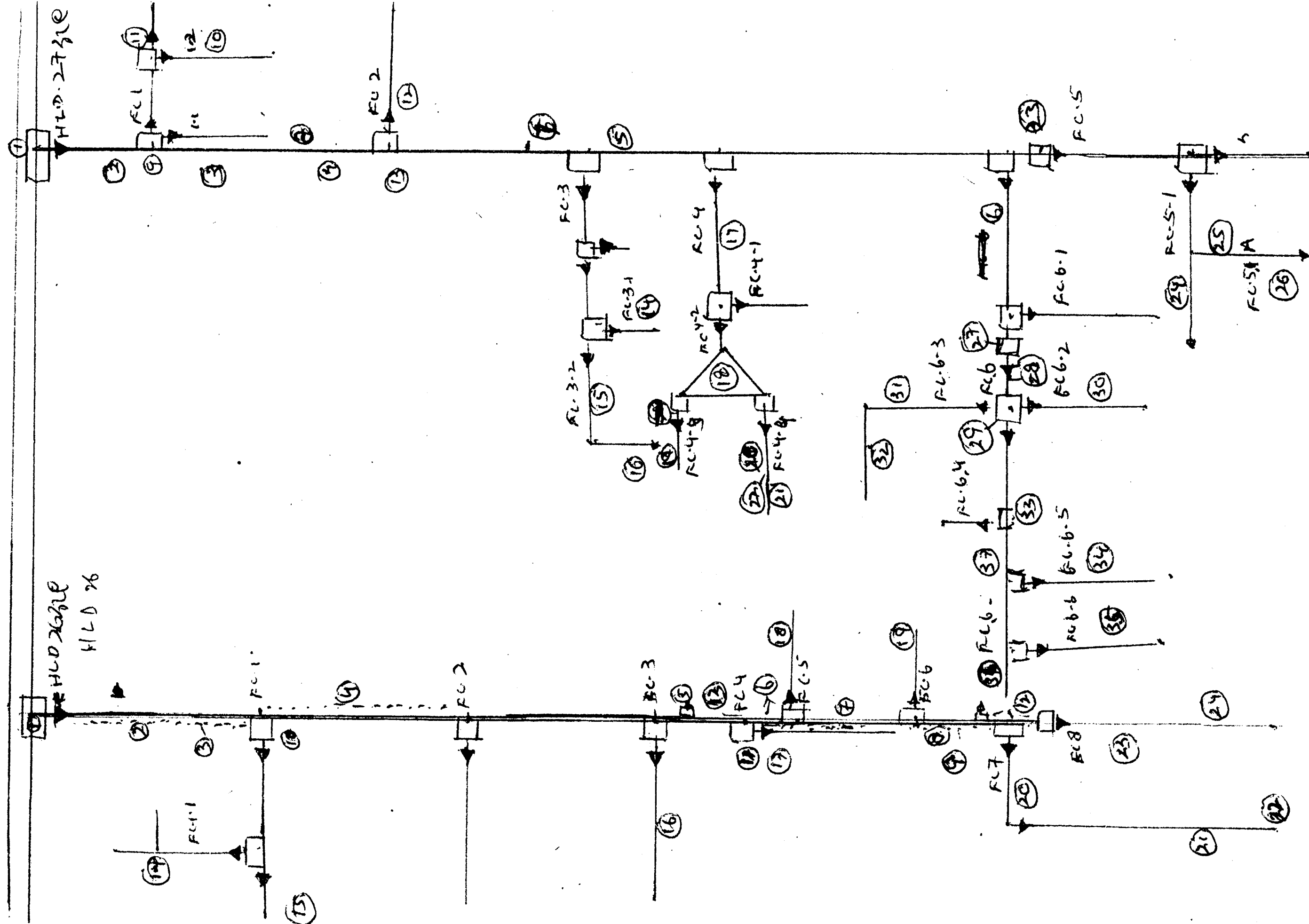
Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Ranketa FO (5), HLD19 to 25, Extent of Land 441 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	Expected Cost (Rs.)
1	HLD 19 - FC1	Construction of side walls & earth filling	Length 200 m Height 2 1/2' H	RRM 36 cu Earth works 100 cu Metal 6 cu	115,200 15,600	Skilled 27 days Labors 180 days Labors 222 days Labors 13 days	7,425 31,500 38,850 2,275	31,500 38,850 2,275	
2	HLD 19 - Side walls	Concrete or rubble masonry wall	Length 300 m Height 3' ft	Included in rehabilitation plan of Irrigation Department of HLD19					
3	FC2 - side wall	Concrete or rubble masonry wall	Length 256 m Height 2 1/2' ft	RRM 46 cu Earth works 128 cu Metal 8 cu	147,200 20,800	Skilled 35 days Labors 230 days Labors 284 days Labors 18 days	9,625 40,250 49,700 3,150	40,250 49,700 3,150	
4	FC3 road & canal	Earth fill the road	Length 926 m Height 3m	Earth 147 cu Gravel 82 cu	73,500 164,000	Labors 326 days Labors 182 days	57,050 31,850	57,050 31,850	
		Concrete or rubble masonry wall	Length 926 m Height 2 1/2' ft	RRM 167 cu Earth works 463 cu Metal 29 cu	534,400 75,400	Skilled 125 days Labors 835 days Labors 1,028 days Labors 64 days	34,375 146,125 179,900 11,200	146,125 179,900 11,200	
5	FC4 Canal & road	Earth fill the road	Length 250 m Height 3m	Earth 40 cu Gravel 22 cu	20,000 44,000	Labors 89 days Labors 49 days	15,575 8,575	15,575 8,575	
		Concrete or rubble masonry wall	Length 250 m Height 2 1/2' ft	RRM 45 cu Earth works 125 cu Metal 8 cu	144,000 20,800	Skilled 34 days Labors 225 days Labors 278 days Labors 18 days	9,350 39,375 48,650 3,150	39,375 48,650 3,150	
6	FC5 Canal	Constriction of side walls of canal with concrete or rubble masonry	Length 492 m Height 2 1/2' ft	RRM 89 cu Earth works 246 cu Metal 16 cu	284,800 41,600	Skilled 67 days Labors 445 days Labors 546 days Labors 36 days	18,425 77,875 95,550 6,300	77,875 95,550 6,300	
		Construction of culvert across road and causeway to drainage canal	Concreting Length 20' ft Height about - 6' feet	HP dia. 600mm 20 ft Concrete 4 cu Earth works 4 cu Metal 2 cu	14,000 32,800 5,200	Skilled 4 days Labors 31 days Labors 9 days Labors 4 days	1,100 5,425 1,575 700	5,425 1,575 700	
		Construction of side walls of canal	Length 300m Height 2 1/2' ft	RRM 54 cu Earth works 150 cu Metal 10 cu	172,800 26,000	Skilled 41 days Labors 270 days Labors 333 days Labors 22 days	11,275 47,250 58,275 3,850	47,250 58,275 3,850	
		Construction of road	Length 300 m Height 3m	Earth works 248 cu Gravel 64 cu	124,000 128,000	Labors 551 days Labors 142 days	96,425 24,850	96,425 24,850	
7	FC6 Canal & Road	Construction of a culvert		HP dia. 600mm 20 ft Concrete 2 cu Earth works 2 cu Metal 1 cu	14,000 16,400 2,600	Skilled 2 days Labors 16 days Labors 4 days Labors 2 days	550 2,800 700 350	2,800 700 350	

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others			Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)		Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
8	HLD 20 Canal	Construction of side walls	Length 300m Height 2 1/2' ft	RRM 54 cu Earth works 150 cu Metal 10 cu	172,800 26,000	Skilled 41 days Labors 270 days Labors 333 days Labors 22 days	11,275 47,250 58,275 3,850	47,250 58,275 3,850		
9	Sluices of Kirimetiya Wewa Tank	Lifting 2 sluices and construct a concrete slab to open and close		Concrete 4 cu Earth works 4 cu Metal 2 nos HP dia. 600mm 80 ft Slide gate dia. 600 2 nos	32,800 23,000 56,000 80,000	Skilled 4 days Labors 31 days Labors 9 days	1,100 5,425 1,575	5,425 1,575		
10	Ithiviwela Canal Road and Drainage Canal	Earth fill the road	Length 500 m Height 3m	Earth 80 cu Gravel 44 cu	40,000 88,000	Labors 178 days Labors 98 days	31,150 17,150	31,150 17,150		
		Construction of side walls of canal	Length 500 m H 2 1/2 ft	RRM 90 cu Earth works 250 cu Metal 16 cu	288,000 41,600	Skilled 68 days Labors 450 days Labors 555 days Labors 36 days	18,700 78,750 97,125 6,300	78,750 97,125 6,300		
		Digging drainage canal	Length 500 m	Earth works 250 cu		Labors 555 days	97,125	97,125		
		Included in rehabilitation plan of Irrigation Department of HLD21								
11	HLD 21 D canal	Construction of a concrete wall or a separate sluice	Length about 2070 m Height 3 1/2' ft							
12	HLD 21 - FC 2	Construction of canal bund and canal - concrete wall for canal	Length 15 m Height 2 1/2' ft W 2 1/2 ft	Concrete 2 cu Earth works 8 cu Metal 2 cu	16,400 5,200	Skilled 2 days Labors 16 days Labors 18 days Labors 4 days	550 2,800 3,150 700	2,800 3,150 700		
13	FC 3	Construction of canal bund and canal - fill the bund	Length about 10 m	Earth works 5 cu		Labors 11 days	1,925	1,925		
14	HLD 21 - FC6 Canal and road	Concrete the wall, earth fill the road and digging drainage canal	Canal Length 1500m Height 2 1/2' ft W 2 1/2 ft	Concrete 249 cu Earth works 750 cu Metal 180 cu	2,041,800 468,000	Skilled 249 days Labors 1,930 days Labors 1,665 days Labors 400 days	68,475 337,750 291,375 70,000	337,750 291,375 70,000		
		Road Length 2,500 m W 3 m		Earth 398 cu Gravel 221 cu	199,000 442,000	Labors 884 days Labors 491 days	154,700 85,925	154,700 85,925		
		Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank								
15	HLD 22 - Canal and drainage canal	Concrete or rubble masonry wall Drain canal wall & digging	Canal Length 350m Drainage canal wall 10 m dig 10' ft	RRM 8 cu Earth works 175 cu Metal 1 cu	25,600 2,600	Skilled 6 days Labors 40 days Labors 389 days Labors 2 days	1,650 7,000 68,075 350	7,000 68,075 350		
16	Kuda Neubewa Tank	Arresting the leak of the								
17	HLD 25 Canal & Road	Construction of side walls of canal	Length of canal 1000 m width 8' ft Height 2' ft	RRM 148 cu Earth works 500 cu Metal 32 cu	473,600 83,200	Skilled 111 days Labors 740 days Labors 1,110 days Labors 71 days	30,525 129,500 194,250 12,425	129,500 194,250 12,425		
		Road Length 1,000 m W 3 m		Earth 159 cu Gravel 88 cu	79,500 176,000	Labors 353 days Labors 195 days	61,775 34,125	61,775 34,125		
		Sub-total								
	Grand-total				7,098,200		3,253,300	3,028,900		
	(US\$/ha)				817					

H.L.D. 26/27. නිවැරදි කළ යුතු වන පොදු වැට්ටිය - D. Canal FC
H.L.D. 26/27 නිවැරදි කළ යුතු වන පොදු වැට්ටිය -
Nos. For Repairs of D. Canals.



Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization (1/2)

Name of Scheme : Nachchaduwa
Name of FO, etc. : 26/27 D-canal FO (6), HLD26 to 27, Extent of Land 492 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	Expected Cost (Rs.)
1	D-canal Gate	Fix an operative with locking			5,000				
2	D-canal near Mr. Sunil's house	Side wall to the road side	L 30ft, w 1 ft, H 3 ft	Included in rehabilitation plan of Irrigation Department of HLD 26					
3	Reservation of canal from start to main road	Rehabilitation of road using the reservation		Included in rehabilitation plan of Irrigation Department of HLD 26					
4	D26 canal from FC1 to FC2 on Land side	Construction of a side wall	L 120m	Included in rehabilitation plan of Irrigation Department of HLD 26					
5	Mr. Fernando's Field Turnout	Rehabilitation of turnout with concrete		Included in rehabilitation plan of Irrigation Department of HLD 26					
6	FC4 cement wall	Bottom is washed off concreting and earth filling	L 200 m W 2 ft H 1 1/2 ft	Concrete	24 cu	8,200	Skilled	24 days	6,600
							Labors	186 days	32,550
				Earth works	100 cu		Labors	222 days	38,850
				Metal	10 cu	26,000	Labors	22 days	3,850
7	Near Mr. Piyadasa's Field	Brick work and Plastering	L 45 ft, height 2 ft	RRM	2 cu	6,400	Skilled	2 days	550
							Labors	10 days	1,750
				Earth works	7 cu		Labors	16 days	2,800
				Metal	1 cu	2,600	Labors	2 days	350
8	Near Mr. Gunatilake's Field	Construction of a crossing	2 ft dia. Hume pipes x 16 ft L x H 3.5 ft	Included in rehabilitation plan of Irrigation Department of HLD 26					
9									
10	FC1	Housing and locking device			5,000				
11	Start of cement wall	Fixing Rod and gate		12" dia Iron gate	1 no	11,500			
12	End of canal 26 -FC 6,7,8	Fixing all gates, housing etc.		Included in rehabilitation plan of Irrigation Department of HLD 26					
13	From 1080m to 2040m	Filling earth, gravel	L 960m W 8ft H 4 inches	Included in rehabilitation plan of Irrigation Department of HLD 26					
14	FC1 second Turnout	Structure to divide water equally to both sides	L 10 ft W 1 ft H 2 ft.	Concrete	1 cu	8,200	Skilled	1 days	275
							Labors	8 days	1,400
				Earth works	1 cu		Labors	2 days	350
				Slide gate dia. 300	2 nos	23,000			

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	Expected Cost (Rs.)
15	From irrigation buildings to Tank bed	Acquire the reservation and earth filling and gravelling	L 100 m W 3 m	Earth works	16 cu	8,000	Labors	36 days	6,300
				Gravel	9 cu	18,000	Labors	20 days	3,500
16	From Gunasin Rice Mill	Construction of 3 turnouts across road. Demarcate the FC reservation		Concrete	3 cu	24,600	Skilled	3 days	825
				Earth works	3 cu		Labors	23 days	4,025
				Slide gate dia. 300	3 nos	34,500	Labors	7 days	1,225
17	FC4 First turnout	Rehabilitation of destroyed turnout		HP dia.12"	60 ft	21,000			
				Concrete	1 cu	8,200	Skilled	1 days	275
				Earth works	1 cu		Labors	8 days	1,400
18	Near Welegedas	Earth filling the remaining section		Slide gate dia. 300	1 nos	11,500	Labors	2 days	350
				Earth works	10 cu		Labors	22 days	3,850
19	FC6 drain water canal near Mr. Atapattu's house	Construction of a culvert of 3 ft wide and side wall to field side		HP dia. 600mm	20 ft	14,000	Skilled	2 days	550
				RRM	2 cu	6,400	Labors	10 days	1,750
				Earth works	2 cu		Labors	4 days	700
				Metal	1 cu	2,600	Labors	2 days	350
20	FC7 from Mr. Pemadasa's house up to Karandagaha	Construction of new side walls after removing the existing wall	L 100 ft, height 2 ft	RRM	5 cu	16,000	Skilled	4 days	1,100
							Labors	25 days	4,375
				Earth works	15 cu		Labors	33 days	5,775
21	FC7 near Mr. Tamaragena's field	Construction of new side walls after removing the existing wall	L 100 ft, height 2 ft	Metal	1 cu	2,600	Labors	2 days	350
22	From start of FC7	Earth filling with gravel	L 1,118m with W 6 ft H 4 inches	RRM	5 cu	16,000	Skilled	4 days	1,100
							Labors	25 days	4,375
				Earth works	15 cu		Labors	33 days	5,775
23	FC8 from beginning field side	Construction of a side wall	L 535m Height 2 ft	Metal	1 cu	2,600	Labors	2 days	350
				Earth works	107 cu	53,500	Labors	238 days	41,650
24	FC8 road pot holes	Earth filling with gravel	L 500 m W 2 m	Gravel	59 cu	118,000	Labors	131 days	22,925
23	FC8 from beginning field side	Construction of a side wall	L 535m Height 2 ft	RRM	79 cu	252,800	Skilled	59 days	16,225
							Labors	395 days	69,125
				Earth works	268 cu		Labors	595 days	104,125
24	FC8 road pot holes	Earth filling with gravel	L 500 m W 2 m	Metal	18 cu	46,800	Labors	40 days	7,000
				Earth works	53 cu	26,500	Labors	118 days	20,650
				Gravel	27 cu	54,000	Labors	60 days	10,500

Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization (2/2)

Name of Scheme : Nachchaduwa
Name of FO, etc. : 26/27 D-canal FO (6), HLD26 to 27, Extent of Land 492 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	D canal gate	Fixing gate with locking		24" dia Iron gate	1 nos	40,000		
2	From main sluice to FC1	Construction of a side wall	L 15 m, height 2 ft	Included in rehabilitation plan of Irrigation Department of HLD 27				
3	From Mr. Samarasinghe's house to Mr. Jinadasa's house	Construction of a side wall to prevent spilling	L 50 m, height 2 ft	Included in rehabilitation plan of Irrigation Department of HLD 27				
4	From Mr. Marasinghe's house up to FC2 Land side	Construction of a side wall to prevent spilling	L 50 m, height 2 ft	Included in rehabilitation plan of Irrigation Department of HLD 27				
5	Near Mr. John's house	Line of steps to bathing step		Included in rehabilitation plan of Irrigation Department of HLD 27				
6	D canal below FC turnout	Construction of a culvert across road		Included in rehabilitation plan of Irrigation Department of HLD 27				
7	From Tar Road	Earth filling with gravel	L 500 m W 2 m	Included in rehabilitation plan of Irrigation Department of HLD 27				
8	Near Awane Tank Spill	Construction of a canal to obtain spill water to canal D27	L 100 m, height 2 ft	RRM	15 cu	48,000	Skilled 11 days Labors 75 days	3,025 13,125
				Earth works	50 cu		Labors 111 days	19,425
				Metal	4 cu	10,400	Labors 9 days	1,575
9	Fc1 Gate	Fixing rod and gate		12" dia Iron gate	1 nos	11,500		
10	FC 1.2	Rehabilitation of road with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
11	FC 1.2	Rehabilitation of 2nd turnout with pipes		Concrete	1 cu	8,200	Skilled 1 days	275
				Earth works	1 cu		Labors 8 days	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350
				HP dia.12"	20 ft	7,000		
12	Mr. Edirisinghe's land	Rehabilitation of FC2 road with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
13	FC2 gate	Fixing the gate		Slide gate dia. 300	1 nos	11,500		
14	FC3 canal road	Earth filling FC3 road with gravel	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
15	Canal in front of ASC	Construction of an over crossing		HP dia. 600mm	20 ft	14,000	Skilled 2 days	550
				RRM	2 cu	6,400	Labors 10 days	1,750
				Earth works	2 cu		Labors 4 days	700
				Metal	1 cu	2,600	Labors 2 days	350
16	From Mr. Jinadasa's land	Rehabilitation of FC3-2 road with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
17	FC4 near turnout	Construction of a 1 ft wide canal, Earth filling, side wall to the bund	L 100 m, height 2 ft	RRM	15 cu	48,000	Skilled 11 days Labors 75 days	3,025 13,125
				Earth works	50 cu		Labors 111 days	19,425
				Metal	4 cu	10,400	Labors 9 days	1,575

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
18	Egodagama Tank	De-silting		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank				
19	Tank High Level Sluice	Rehabilitation by earth filling FC road	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
20	Tank Low level sluice	Rehabilitation of first turnout & pipe		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank				
21	Tank low level sluice - canal end	Culvert between atapattu - Nandapala Fields		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank				
22	FC4-4 L.L. canal road	Earth filling - gravel	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
23	FC5 turnout	Fixing the gate		Included in rehabilitation plan of Irrigation Department of HLD 27				
24	FC5.1 Canal Road	Rehabilitation with earth filling		Earth works	50 cu	25,000	Labors 111 days	19,425
				Gravel -50 cu	10,000		Labors 11 days	1,925
25	FC5.1A Canal Road	Rehabilitation with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
26	FC5.1A Canal Road	Construction of farm crossing (culvert)		HP dia. 600mm	20 ft	14,000	Skilled 2 days	550
				RRM	2 cu	6,400	Labors 10 days	1,750
				Earth works	2 cu		Labors 4 days	700
				Metal	1 cu	2,600	Labors 2 days	350
27	FC6 Turnout	Rehabilitation of hume pipe		HP dia.18"	20 ft	10,800		
28	Canal between FC6.1 & 6.2	Construction of a side wall	L 40 m W 1 ft H 3 ft	RRM	8 cu	25,600	Skilled 6 days Labors 40 days	1,650 7,000
				Earth works	20 cu		Labors 44 days	7,700
				Metal	2 cu	5,200	Labors 4 days	700
29	FC6, 6.2, 6.3	Systematic Rehabilitation	L 1,340 m W 1 ft H 1 1/2 ft	RRM	156 cu	499,200	Skilled 117 days Labors 780 days	32,175 136,500
				Earth works	670 cu		Labors 1487 days	260,225
				Metal	43 cu	111,800	Labors 95 days	16,625
30	FC6-2 canal road	Rehabilitation with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
31	FC6.3 canal road	Rehabilitation with earth filling	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days	20,650
				Gravel	27 cu	54,000	Labors 60 days	10,500
	Sub-total					2,498,100		1,277,125
	Grand-total					3,775,225		
	(US\$/ha)					267		



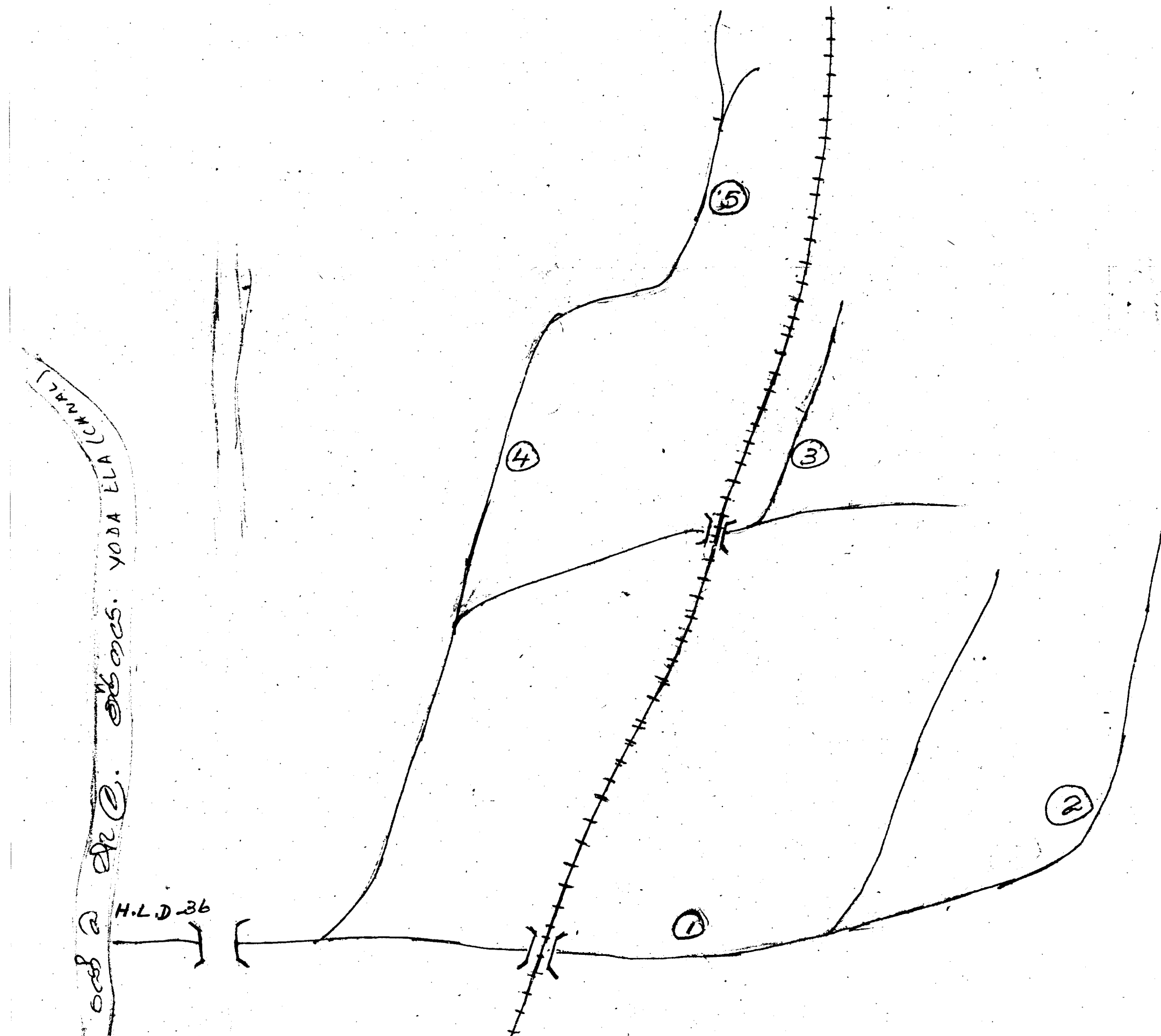
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Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Ruwanmweli FO (7), HLD28 to 35, Extent of Land 491 acres

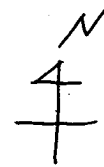
No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	Regulator	Lifting the bottom of regulator with concrete to provide water to canal 28	Length 20' ft Height 9" inches	Concrete	4 cu	32,800	Skilled 4 days	1,100
				Earth works	3 cu		Labors 31 days	5,425
				Metal	2 cu	5,200	Labors 7 days	1,225
2	Field canal	Side wall - rubble masonry	Length 100' ft, W 9" inches, H 1 1/2' ft	RRM	4 cu	12,800	Labors 4 days	700
				Earth works	15 cu		Labors 20 days	3,500
				Metal	1 cu	2,600	Labors 33 days	5,775
3	Field canal	Side wall - rubble masonry	Length 100' ft, W 9" inches, H 1 1/2' ft	RRM	4 cu	12,800	Labors 2 days	350
				Earth works	15 cu		Labors 20 days	3,500
				Metal	1 cu	2,600	Labors 33 days	5,775
4	Agricultural road	Filling earth	Length 750 m, W 12' ft	Earth works	143 cu	71,500	Labors 2 days	350
				Gravel	80 cu	160,000	Labors 317 days	55,475
				Earth works	153 cu	76,500	Labors 178 days	31,150
5	HLD 29 Agricultural road	Filling earth	Length 800m, W 12' ft	Gravel	85 cu	170,000	Labors 340 days	59,500
				Earth works	153 cu	76,500	Labors 189 days	33,075
				Gravel	85 cu	170,000	Labors 340 days	59,500
6	HLD 29 Field canal	Side wall with rubble masonry	Length 150m, W 9" inches, H 3' ft	RRM	32 cu	102,400	Labors 24 days	6,600
				Earth works	75 cu		Labors 160 days	28,000
				Metal	5 cu	13,000	Labors 167 days	29,225
7	Amane Tank Sluice	Replace doors		Earth works	286 cu	143,000	Labors 11 days	1,925
				Gravel	159 cu	318,000	Labors 635 days	111,125
				HP dia. 600mm	60 ft	42,000	Labors 353 days	61,775
8	Amane Tank Sluice	Replace doors - provide a rip-rap		RRM	6 cu	19,200	Skilled 5 days	1,375
				Earth works	6 cu		Labors 30 days	5,250
				Metal	3 cu	7,800	Labors 13 days	2,275
9	Amane Tank Agricultural road	Filling earth, culverts for required places	Length 1500m, W 12' ft	Earth works	286 cu	143,000	Labors 7 days	1,225
				Gravel	159 cu	318,000	Labors 635 days	111,125
				HP dia. 600mm	60 ft	42,000	Labors 353 days	61,775
10	Amane Tank Spill canal	Side wall for the spill canal	Length 1500m, H 4' ft	RRM	6 cu	19,200	Skilled 5 days	1,375
				Earth works	6 cu		Labors 30 days	5,250
				Metal	3 cu	7,800	Labors 13 days	2,275
11	Amane Tank Agricultural road	Fill earth	Length 1400m, W 12' ft	Earth works	1,500 cu		Labors 7 days	1,225
				Gravel	85 cu	170,000	Labors 635 days	111,125
				HP dia. 600mm	60 ft	42,000	Labors 353 days	61,775
12	HLD 32 Sluice	Repair sluice of main canal to HLD		RRM	6 cu	19,200	Skilled 5 days	1,375
				Earth works	6 cu		Labors 30 days	5,250
				Metal	3 cu	7,800	Labors 13 days	2,275
13	HLD 32 Field canal	Side wall - rubble masonry	Length 100m, W 9" inches, H 3' ft	RRM	21 cu	67,200	Skilled 16 days	4,400
				Earth works	50 cu		Labors 105 days	18,375
				Metal	3 cu	7,800	Labors 111 days	19,425
14	HLD 32 Field canal	Side wall - rubble masonry	Length 150m, W 9" inches, H 3' ft	RRM	32 cu	102,400	Labors 7 days	1,225
				Earth works	75 cu		Labors 24 days	6,600
				Metal	5 cu	13,000	Labors 160 days	28,000
15	HLD 32 Agricultural road	Filling earth	Length 1400m, W 12' ft	Earth works	267 cu	133,500	Labors 167 days	29,225
				Gravel	148 cu	296,000	Labors 11 days	1,925
				Earth works	267 cu	133,500	Labors 593 days	103,775
16	HLD 31 Field canal	Side wall - rubble masonry	Length 500m, W 9" inches, H 4' ft	RRM	138 cu	441,600	Labors 329 days	57,575
				Earth works	250 cu		Labors 575 days	97,125
				Metal	16 cu	41,600	Labors 36 days	6,300
17	HLD 31 Agricultural road	Filling earth	Length 1500m, W 12' ft	Earth works	286 cu	143,000	Labors 635 days	111,125
				Gravel	159 cu	318,000	Labors 353 days	61,775
				HP dia. 600mm	60 ft	42,000	Labors 353 days	61,775

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
18	HLD 31 Drain road	Digging the drain canal	Length 500m	Earth works	500 cu	Labors ### days		194,250	194,250
19	HLD 32 Field canal	Side wall - rubble masonry	Length 20m, W 9" inches, H 2 1/2' ft	RRM	4 cu	12,800	Skilled 3 days	825	3,500 3,850 350
				Earth works	10 cu		Labors 20 days	3,500	
				Metal	1 cu	2,600	Labors 22 days	3,850	
20	HLD 32 Field canal	Side wall - rubble masonry	Length 20m, W 9" inches, H 2 1/2' ft	RRM	4 cu	12,800	Skilled 3 days	825	3,500 3,850 350
				Earth works	10 cu		Labors 20 days	3,500	
				Metal	1 cu	2,600	Labors 22 days	3,850	
21	HLD 32 Field canal	Side wall - rubble masonry	Length 150m, W 9" inches, H 2' ft	RRM	22 cu	70,400	Skilled 17 days	4,675	19,250 29,225 1,925
				Earth works	75 cu		Labors 110 days	19,250	
				Metal	5 cu	13,000	Labors 167 days	29,225	
22	Ratmale Tank Sluice	Repair the sluice and replace doors		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank					
23	Ratmale Tank Sluice	Repair the sluice and replace doors		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank					
24	Ratmale Tank Tank bund	Construction of a rip-rap	Length 1200m	Included in rehabilitation plan of Irrigation Department of 11 nos of service tank					
25	HLD 34 Field canal	Side wall - rubble masonry	Length 150m, W 9" inches, H 31/2' ft	RRM	37 cu	118,400	Skilled 28 days	7,700	32,375 29,225 1,925
				Earth works	75 cu		Labors 185 days	32,375	
				Metal	5 cu	13,000	Labors 167 days	29,225	
26	HLD 34 Field canal	Side wall - rubble masonry	Length 150m, W 9" inches, H 31/2' ft	RRM	37 cu	118,400	Skilled 28 days	7,700	32,375 29,225 1,925
				Earth works	75 cu		Labors 185 days	32,375	
				Metal	5 cu	13,000	Labors 167 days	29,225	
27	HLD 34 Sluice	Construction of a sluice to provide water for 20		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank					
28	HLD 35 Field canal	Turnout with gates		Concrete	1 cu	8,200	Skilled 1 days	275	1,400 350
				Earth works	1 cu		Labors 8 days	1,400	
				Slide gate dia. 300 HP dia.12"	1 nos 20 ft	11,500 7,000	Labors 2 days	350	
29	HLD 35 Field canal	Turnout with gates		Concrete	1 cu	8,200	Skilled 1 days	275	1,400 350
				Earth works	1 cu		Labors 8 days	1,400	
				Slide gate dia. 300 HP dia.12"	1 nos 20 ft	11,500 7,000	Labors 2 days	350	
30	HLD 35 Canal bund	Side wall - rubble masonry	Length 500m, W 9" inches, H 4' ft	Included in rehabilitation plan of Irrigation Department of HLD 35					
31	HLD 35 Canal bund	Side wall - rubble masonry	Length 150m, W 9" inches, H 4' ft	Included in rehabilitation plan of Irrigation Department of HLD 35					
32	HLD 35 Canal bund	Side wall - rubble masonry	Length 70m, W 9" inches, H 3' ft	Included in rehabilitation plan of Irrigation Department of HLD 35					
33	HLD 35 Field canal	Side wall - rubble masonry	Length 800m, W 9" inches, H 3' ft	RRM	170 cu	544,000	Skilled 128 days	35,200	148,750 155,400 9,800
				Earth works	400 cu		Labors 850 days	148,750	
				Metal	25 cu	65,000	Labors 888 days	155,400	
34	HLD 35 Canal road	Earth filling - gravel	Length 1500m, W 12' ft	Included in rehabilitation plan of Irrigation Department of HLD 35					
	Sub-total				3,795,700			2,498,300	2,390,500
	Grand-total				6,294,000				
	(US\$/ha)				446				



Tissa FO
Nachchaduwa
No. 1/3

Tissa Frio
Hachchadawa
No 3/3



(CANAL)

YODA ELA

⑥

H.L.D.-38

⑦

Tissa Frio
HACHCHADAWA.
No 3/3

(CANAL)

YODA ELA

⑧

H.L.D.-39

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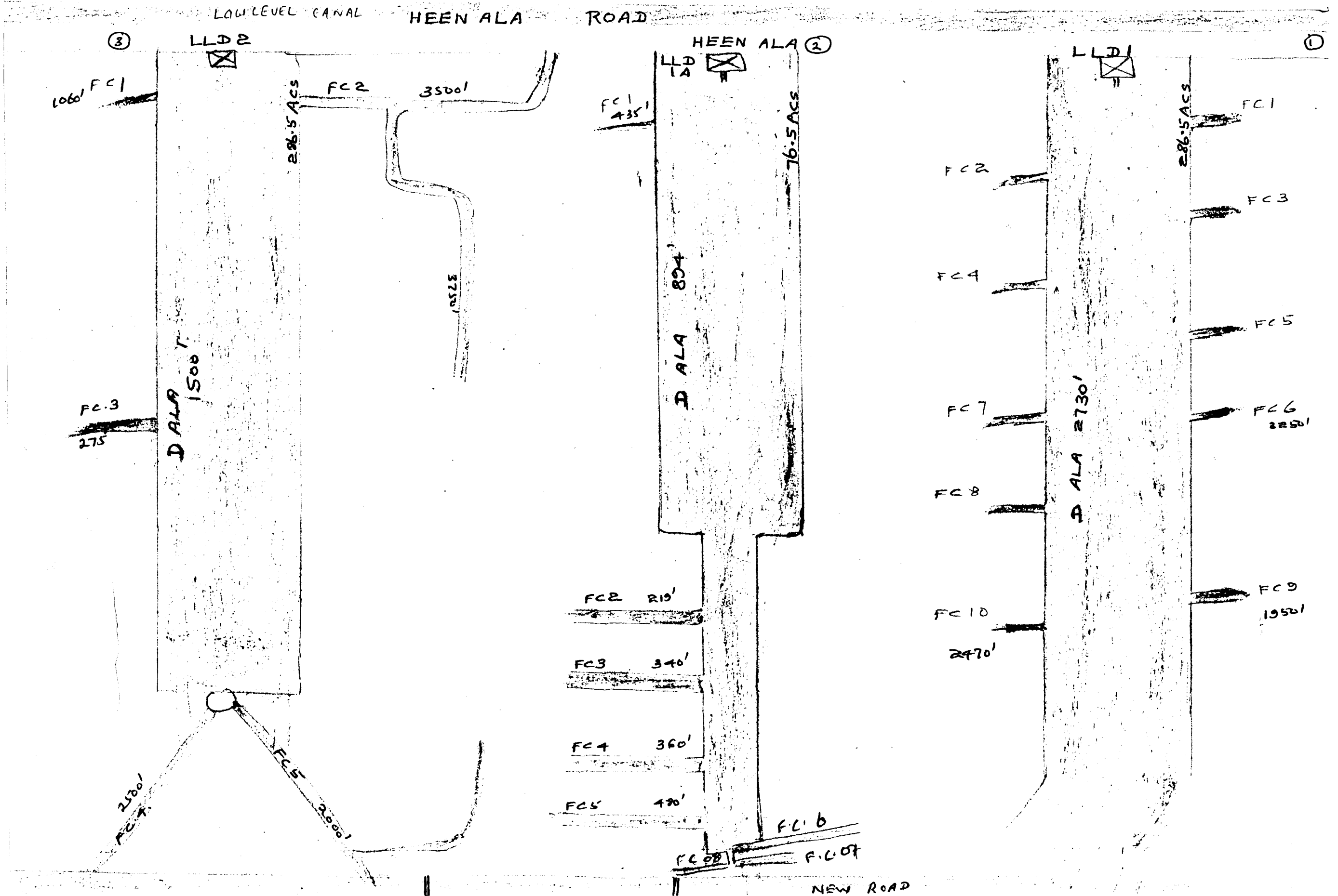
Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Tissa FO (8), HLD36 to 39, Extent of Land 526 acres

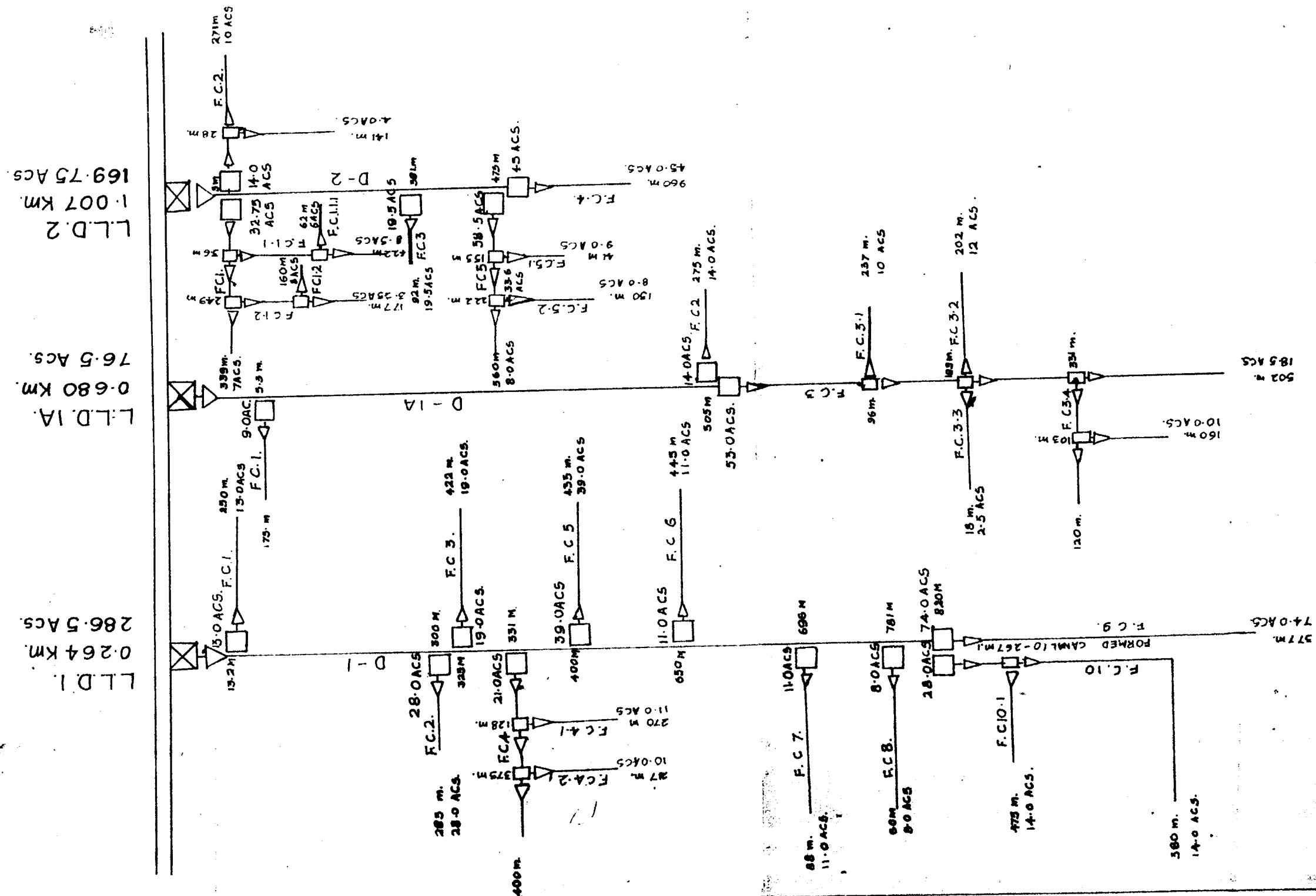
No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation		
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)		
1	HLD 36 - both side walls	This is a dual canal . One canal is 1 1/2' wide and 1 1/2' deep and the other is 2 1/2' wide and 1 1/2' deep. Length of the dual canal is about 800 m. This canal should be changed to a single canal with a width of 4 ft and depth of 3 ft must place outlets as per nos. of fields.	Length of 800 m, with 3 ft. height on both sides and 4 ft. width.	Included in rehabilitation plan of Irrigation Department of HLD 36						
2	Side walls of canal	Side walls of canal consists of one side by road and other side by earth bund. Canal prevents leakage or over flowing by this bund must construct. 200m long 2 1/2' ft wide 2' ft high concrete side walls (6" inch thick).	Must construct 2 concrete side walls L 200 m W 2 1/2' ft H 2' ft Widen the canal up to 2 1/2' ft.	Included in rehabilitation plan of Irrigation Department of HLD 36						
3	Side walls of canal	Side walls of canal consists of one side by road and other side by ridges of paddy field must construct two concrete walls of 100 m length 2 1/2' ft wide 1 1/2' ft height (6" inches thick) balance 100 m of the paddy field side an earth bund should be constructed.	Concrete bund - both side of canal L 100m W 2 1/2' ft H 1 1/2' ft Earth bund L 100m W 2' H 1 1/2' ft must width the canal up to 2 feet	Concrete Earth works Metal	13 cu 50 cu 6 cu	106,600 15,600	Skilled Labors Labors Labors	13 days 101 days 111 days 13 days	3,575 17,675 19,425 2,275	17,675 19,425 2,275
4	Side walls of D canal	Consists of 2 canals of length of 800m with 1 1/2' wide & 1 1/2' height and 2 1/2' wide & 1 1/2' height canals must construct 800m long.	Construction of 800m long 4' ft wide 3' ft high (9" thick) two walls. Provision of sufficient number of outlets for paddy fields.	Included in rehabilitation plan of Irrigation Department of HLD 36						
5	Side walls of canal	Consists of two earth bunds of 150m long must repair with two concrete walls	Construction of side walls 150m long 2 ft wide 1 1/2' ft high (6" thick)	Concrete Earth works Metal	18 cu 75 cu 7 cu	147,600 18,200	Skilled Labors Labors Labors	18 days 140 days 167 days 16 days	4,950 24,500 29,225 2,800	24,500 29,225 2,800
6	HLD 38 side walls of canal	Earth bunds or both sides and the length of 200m this total length should be concreted	Construction of 200m long (both sides) 2' ft wide 1/1/2' ft high 6" inch thick concrete walls	Included in rehabilitation plan of Irrigation Department of HLD 36						
7	Side walls of canal	Since the canal bunds are made out of earth, water leakage could not be prevented.	As mentioned above the canal should be concreted about 300m. Height 5 ft	Concrete Earth works Metal	45 cu 150 cu 13 cu	369,000 33,800	Skilled Labors Labors Labors	45 days 349 days 333 days 29 days	12,375 61,075 58,275 5,075	61,075 58,275 5,075
8	HLD 39 - Side walls of canal	Since the canal bunds are made out of earth water leaks could not be prevented.	Construction of a 500m long 1 1/2' ft wide 1 1/2' ft high concrete wall on both sides of the canal (bottom concrete)	Included in rehabilitation plan of Irrigation Department of HLD 36						
	Sub-total					690,800			241,225	220,325
	Grand-total					932,025				
	(US\$/ha)					62				

ALAKSA

NACHCHIYADUWA



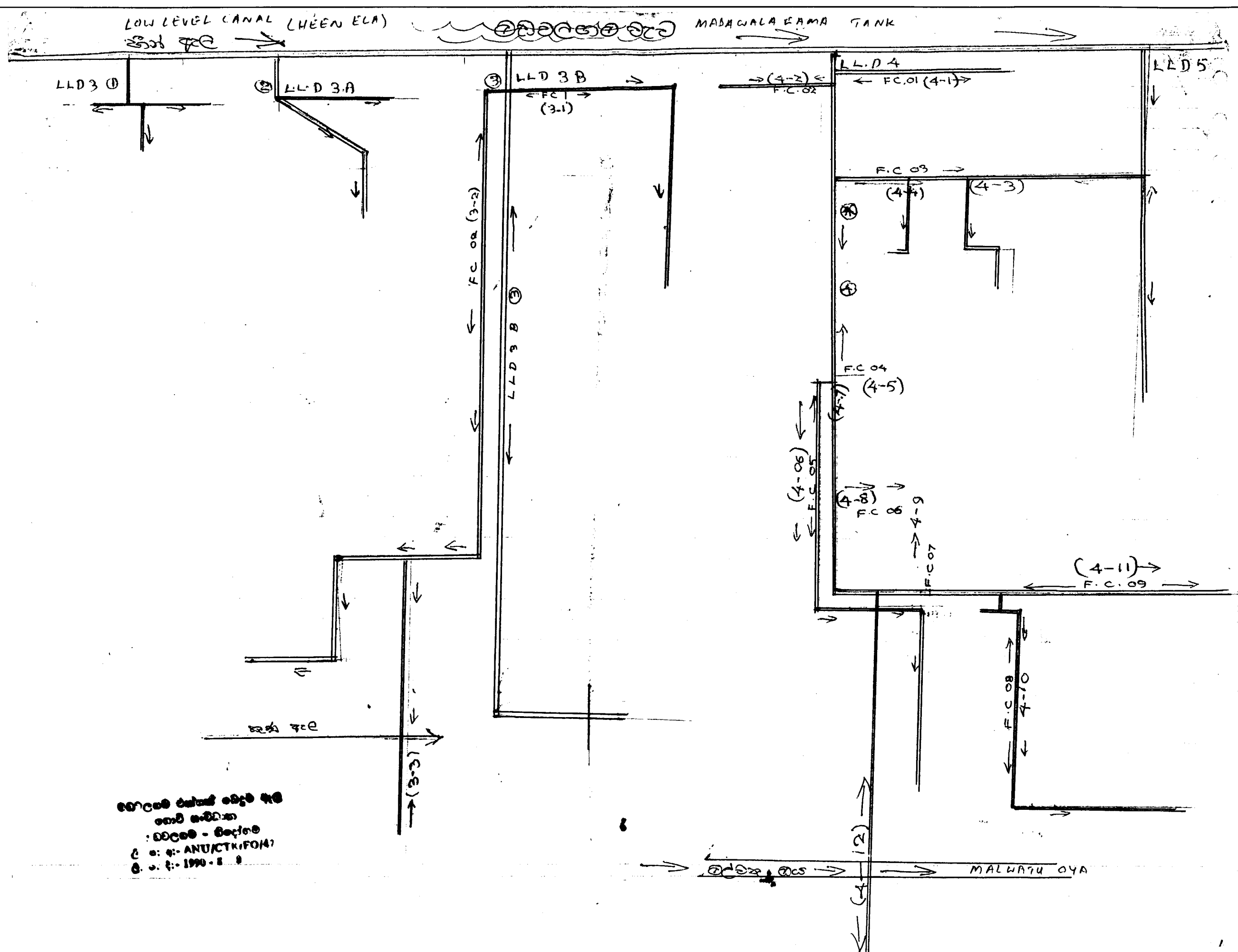
ALAKSA NACHICHYADUWA



Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Al-Aksa FO (9), LLD 1 to 2, Extent of Land 510 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participatio
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	LLD1 all of canal	Rehabilitation of side walls of all field canals with rubble masonry and concrete	L 4300m H 1 1/2 ft	Included in rehabilitation plan of Irrigation Department of LLD1				
2	FC1, FC2	LLD1 - FC1 Iron Rod LLD1 - FC2 Iron Rod		Iron Rod 2 nos	10,000			
3	LLD1 Canal	Remove the existing masonry wall of main D canal (2730 ft) and rehabilitate the side walls	L 832m H 3 ft	Included in rehabilitation plan of Irrigation Department of LLD1				
4	LLD1 FC3, FC4	LLD1 - FC3 Iron Rod LLD1 - FC4 Iron Rod and door		Iron Rod 1 nos 24" dia Iron 1 nos	5,000 40,000			
5	LLD1 canal road	Filling earth and rehabilitation of D canal Road	L 832 m W 12 ft	Included in rehabilitation plan of Irrigation Department of LLD1				
6	LLD1A all of F canal	Rehabilitation of side walls of all field canals with rubble masonry and concrete	L 1800 m H 1 1/2 ft	RRM 210 cu Earth works 900 cu Metal 57 cu	672,000 148,200	Skilled 158 days Labors 1,050 days Labors 1,998 days Labors 127 days	43,450 183,750 349,650 22,225	183,750 349,650 22,225
7	LLD1A	Augment - The D canal bund by 1/2' ft	L 500 m	Included in rehabilitation plan of Irrigation Department of LLD1A				
8	LLD1A Canal Road	Filling earth and rehabilitation of D canal	L 500 m W 12 ft	Included in rehabilitation plan of Irrigation Department of LLD1A				
9	LLD1A F canal	FC 01 to FC 07 replacing doors		12" dia Iron gate 7 nos	80,500			
10	LLD 2 FC1 to FC5	Rehabilitation of side walls of all field canals with rubble masonry and earth	L 3600m H 1 1/2 ft	RRM 420 cu Earth works 1,800 cu Metal 114 cu	1,344,000 296,400	Skilled 315 days Labors 2,100 days Labors 3,996 days Labors 253 days	86,625 367,500 699,300 44,275	367,500 699,300 44,275
11	LLD2	Remove the existing masonry wall of D-canal	L 457 m H 3 ft	Included in rehabilitation plan of Irrigation Department of LLD2				
12	LLD2 FC 1 to 5	FC1 to FC 5 Replace Iron rod		Iron Rod 5 nos	25,000			
13	LLD2 canal road	Filling earth and rehabilitation of D canal Road	L 457 m W 12 ft	Included in rehabilitation plan of Irrigation Department of LLD2				
	Sub-total				2,621,100		1,796,775	1,666,700
	Grand-total				4,417,875			
	(US\$/ha)				301			

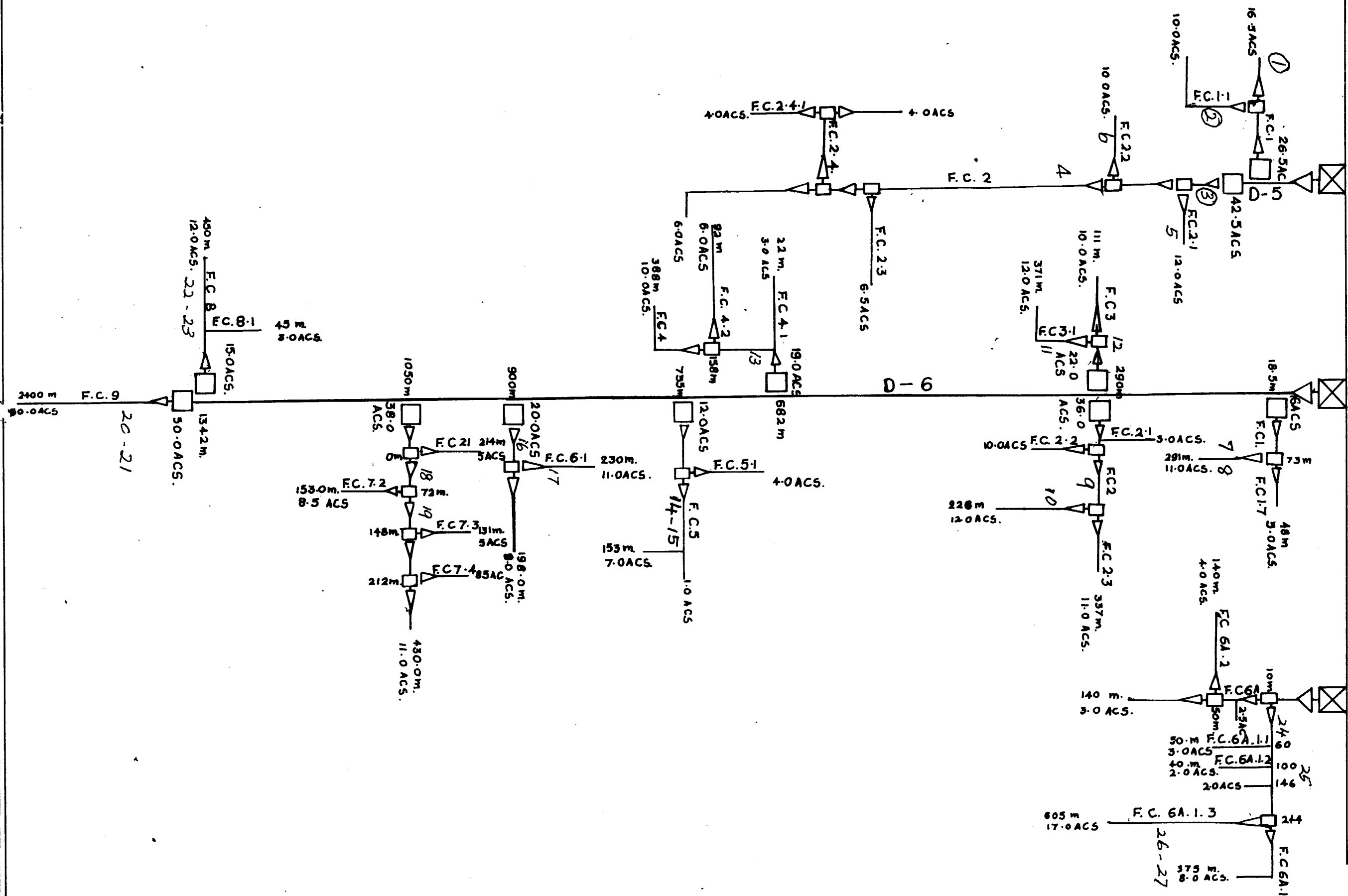


Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Ekasth FO (10), LLD 3 to 4, Extent of Land 342 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	Expected Cost (Rs.)
1	LLD 3 - FC 2	Construction of concrete bund	L 75 m, W 0.75 m H 0.75 m	Concrete	15 cu	123,000	Skilled 15 days	4,125	
				Earth works	38 cu		Labors 116 days	20,300	20,300
				Metal	6 cu	15,600	Labors 84 days	14,700	14,700
2	LLD 3 - FC 2	Rehabilitation of earth bund	L 300 m, W 1 1/2 H 2 1/2	Earth works	32 cu	8,000	Labors 13 days	2,275	2,275
							Labors 71 days	12,425	12,425
3	LLD 3A	Construction of a regulator across LLC		Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	1 cu		Labors 8 days	1,400	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350	350
4	LLD 3A	Rehabilitation of earth bund	L 800 m W 0.75 m H 0.75 m	HP dia.12"	20 ft	7,000			
				Earth works	85 cu		Labors 189 days	33,075	33,075
5	LLD 3A	Construction of concrete bund	L 75 m, W 0.75 m H 0.75 m	Concrete	15 cu	123,000	Skilled 15 days	4,125	
				Earth works	38 cu		Labors 116 days	20,300	20,300
				Metal	6 cu	15,600	Labors 84 days	14,700	14,700
6	LLD 3B	Remove existing rubble masonry and construct a new concrete bund	L 750 m W 0.75 m H 0.75m	Concrete	146 cu	1,197,200	Skilled 146 days	40,150	
				Earth works	375 cu		Labors 1132 days	198,100	198,100
				Metal	1 cu	2,600	Labors 833 days	145,775	145,775
7	LLD 3B	Construction of earth bund	L 300m W 0.5 m H 0.75m	Removing	375 m		Labors 2 days	350	350
				Earth works	102 cu	25,500	Labors 375 days	65,625	65,625
							Labors 226 days	39,550	39,550
8	LLD 3B	Rehabilitation of main agri road	L 1240m W 2.5m	Earth works	164 cu	82,000	Labors 364 days	63,700	63,700
				Gravel	88 cu	176,000	Labors 195 days	34,125	34,125
9	LLD 3B FC1	Construction of a concrete bund	L 75 m W 0.55m H 0.75m	Concrete	13 cu	106,600	Skilled 13 days	3,575	
				Earth works	38 cu		Labors 101 days	17,675	17,675
				Metal	4 cu	10,400	Labors 84 days	14,700	14,700
10	LLD 3B FC1	Rehabilitation of earth bund	L 75 m W 0.55m H 0.75m	Earth works	8 cu	4,000	Labors 9 days	1,575	1,575
							Labors 18 days	3,150	3,150
11	LLD 3B FC2	Construction of a concrete bund	L 640m W 0.5m, H 0.75m	Concrete	112 cu	918,400	Skilled 112 days	30,800	
				Earth works	320 cu		Labors 868 days	151,900	151,900
				Metal	32 cu	83,200	Labors 710 days	124,250	124,250
12	LLD 3B FC2 sub canal	To provide water to new area which could be cultivated with FC2, construct a concrete bund across drain canal	L 10m W 0.5 H 0.5m	Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	5 cu		Labors 8 days	1,400	1,400
				Metal	1 cu	2,600	Labors 11 days	1,925	1,925
13	LLD 3B FC2 sub canal	Extend above concrete bund with a earth bund	L 950m, W 0.5m H 0.75m	Concrete	167 cu	1,369,400	Skilled 1 days	275	
				Earth works	475 cu		Labors 1294 days	226,450	226,450
				Metal	47 cu	122,200	Labors 1055 days	184,625	184,625
14	LLD 3B FC2 sub canal	Agri road	L 600m W 2.5m	Earth works	433 cu	216,500	Labors 104 days	18,200	18,200
				Gravel	106 cu	212,000	Labors 961 days	168,175	168,175
							Labors 235 days	41,125	41,125
15	LLD 3B FC2 sub canal	Construction of a causeway across drain canal	L 12 ft W 8 ft	HP dia. 600mm	20 ft	14,000	Skilled 2 days	550	
				RRM	2 cu	6,400	Labors 10 days	1,750	1,750
				Earth works	2 cu		Labors 4 days	700	700
16	LLD 3B FC2 sub canal	Construction of earth wall	L 150m W 2 ft H 2,ft	Metal	1 cu	2,600	Labors 2 days	350	350
				Earth works	16 cu	4,000	Labors 36 days	6,300	6,300
17	LLD 4 canal	Lifting the bottom of main canal from FC3 by 1 1/2 ft, compacting earth with machine. Removing the existing rubble masonry side wall and construct a rubble masonry wall	L 1600m W 2 ft H 2 ft	Included in rehabilitation plan of Irrigation Department of LLD4					
18	LLD 4 canal	Construction of a rubble masonry wall and earth bund from FC1 to Fc3	L 200 ft W 1 ft H 2 ft	Included in rehabilitation plan of Irrigation Department of LLD4					
19	LLD 4 FC1	Construction of a concrete wall on lower side	L 180 ft W 0.5' ft H 3 ft	Concrete	5 cu	41,000	Skilled 5 days	1,375	
				Earth works	27 cu		Labors 39 days	6,825	6,825
				Metal	2 cu	5,200	Labors 60 days	10,500	10,500
							Labors 4 days	700	700

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
20	LLD 4 FC1	Rehabilitation of earth bund	L 450 ft, W 1' ft H 2' ft	Earth works	15 cu	3,750	Labors 33 days	5,775	5,775
21	LLD 4 FC 2	Construction of concrete bund	L 100m W 6" inches, H 3' ft	Concrete	25 cu	205,000	Skilled 25 days	6,875	
				Earth works	50 cu		Labors 194 days	33,950	33,950
				Metal	12 cu	31,200	Labors 111 days	19,425	19,425
22	LLD 4 FC 2	Rehabilitation of earth bund	L 375m, W 1' ft, H 3' ft	Earth works	127 cu	31,750	Labors 27 days	4,725	4,725
23	LLD 4 FC3	Construction of a agri-road on FC3 from LLD4 to LLD5	L 800m W 8' ft	Earth works	560 cu	280,000	Labors 1243 days	217,525	217,525
				Gravel	136 cu	272,000	Labors 302 days	52,850	52,850
24	FC3	Construction of a regulator and a concrete bund on FC3 distribution point	Regulator	Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	1 cu		Labors 8 days	1,400	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350	350
				HP dia.12"	20 ft	7,000			
			RC Canal L 50 m W 6" inches H 3' ft	Concrete	13 cu	106,600	Skilled 13 days	3,575	
				Earth works	25 cu		Labors 101 days	17,675	17,675
25	FC3	Rehabilitation of earth bund	L 210m W 1' ft, H 3' ft	Earth works	22 cu	5,500	Labors 56 days	9,800	9,800
26	FC 4	Construction of a concrete side wall	L 15m, W 6" inches H 2 1/2' ft	Metal	6 cu	15,600	Labors 13 days	2,275	2,275
				Earth works	22 cu	5,500	Labors 49 days	8,575	8,575
27	FC 5	Construction of a concrete side wall after removing the rubble masonry wall	L 160m, W 1 1/2' ft H 2' ft	Concrete	3 cu	24,600	Skilled 3 days	825	
				Earth works	8 cu		Labors 23 days	4,025	4,025
							Labors 18 days	3,150	3,150
28	FC 5	Construction of a concrete side wall after removing the rubble masonry wall	L 160m, W 1 1/2' ft H 2' ft	Concrete	20 cu	164,000	Skilled 20 days	5,500	
				Earth works	80 cu		Labors 155 days	27,125	27,125
				Metal	7 cu	18,200	Labors 178 days	31,150	31,150
				Removing	80 m		Labors 16 days	2,800	2,800
29	FC5	Rehabilitation of earth canal bund	L 375m, W 1' ft H 3' ft	Earth works	127 cu	31,750	Labors 80 days	14,000	14,000
29	LLD 4	Construction of a regulator across LLD 4 canal	Regulator	Included in rehabilitation plan of Irrigation Department of LLD4					
30	FC6	Construction of a structure to issue water to paddy field		Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	1 cu		Labors 8 days	1,400	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350	350
31	FC7	Rehabilitation of earth bund	L 100m, W 1' ft H 3' ft	HP dia.12"	20 ft	7,000			
32	FC8	Invalidate the present canal system and construct a new concrete canal	L 150m, W 1 1/2' ft H 1 1/2' ft	Earth works	11 cu	2,750	Labors 24 days	4,200	4,200
				Concrete	16 cu	131,200	Skilled 16 days	4,400	
				Earth works	75 cu		Labors 124 days	21,700	21,700
				Metal	7 cu	18,200	Labors 167 days	29,225	29,225
33	FC8	Construction of earth canal bund	L 350m, W 2' ft H 3' ft	Removing	75 m		Labors 16 days	2,800	2,800
				Earth works	37 cu	9,250	Labors 75 days	13,125	13,125
							Labors 82 days	14,350	14,350
34	FC9	Construction of structures in suitable places to obtain water		Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	1 cu		Labors 8 days	1,400	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350	350
35	FC9	Rehabilitation of earth canal with structures to issue water to lands not cultivated at present	Structure	HP dia.12"	20 ft	7,000			
				Concrete	1 cu	8,200	Skilled 1 days	275	
				Earth works	1 cu		Labors 8 days	1,400	1,400
				Slide gate dia. 300	1 nos	11,500	Labors 2 days	350	350
36	FC9	Construction of an agri-road to connect Madawalagama and Yahalegama from LLD4	L 550m , W 2' ft, H 2'	HP dia.12"	20 ft	7,000			
				Earth works	58 cu	14,500	Labors 129 days	22,575	22,575
	Sub-total					6,522,050		2,545,350	2,342,550
	Grand-total					9,067,400			
	(US\$/ha)					923			



L.L.D. 5
4.632 Km
69.0 ACS.
3000 m.

L.L.D. 6
4.819 Km
243.0 ACS

L.L.D 6A
5.004 Km
41.50 ACS

Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
 Name of FO, etc. : Isuru FO (11), LLD 5 to 6A, Extent of Land 313 acres

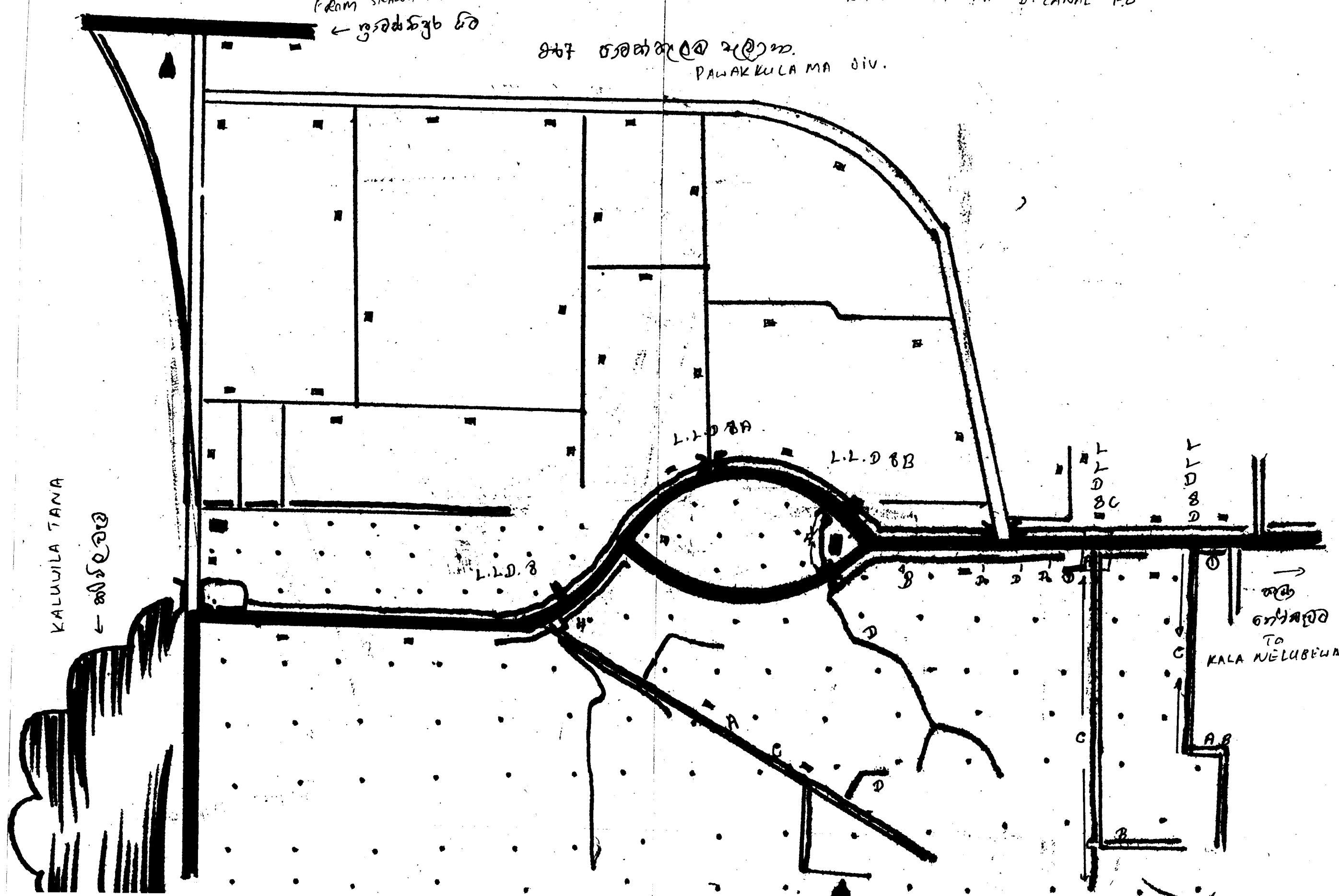
No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	LLD5 FC1	Construction of 5 water inlets for fields		Concrete 5 cu	41,000	Skilled 5 days	1,375	6,825
				Earth works 5 cu		Labors 39 days	6,825	
				Slide gate dia. 300 5 nos	57,500	Labors 11 days	1,925	
				HP dia.12" 100 ft	35,000			
2	LLD5 FC1-1	Construction of 300m canal road	L 300m W 12 ft	Earth works 286 cu	143,000	Labors 635 days	111,125	111,125
				Gravel 76 cu	152,000	Labors 169 days	29,575	29,575
3	LLD5 FC2	Concreting the bottom of canal	L 60' ft H 1 1/2 ft W 1 1/2 ft	Concrete 2 cu	16,400	Skilled 2 days	550	2,800
				Earth works 9 cu		Labors 16 days	2,800	
						Labors 20 days	3,500	
				Metal 1 cu	2,600	Labors 2 days	350	
4	LLD5 FC2	Rehabilitation of canal road 300m fill earth and surface gravel	L 300m W 12 ft	Earth works 57 cu	28,500	Labors 127 days	22,225	22,225
				Gravel 32 cu	64,000	Labors 71 days	12,425	12,425
		Culvert		HP dia. 600mm 20 ft	14,000	Skilled 2 days	550	1,750
				RRM 2 cu	6,400			
						Labors 10 days	1,750	
				Earth works 2 cu		Labors 4 days	700	
5	LLD5 FC2-1	Construction of 5 water inlets for fields		Metal 1 cu	2,600	Labors 2 days	350	350
				Earth works 5 cu		Labors 11 days	1,925	1,925
6	LLD5 FC2-2	Construction of a tractor entrance		HP dia.6" 50 ft	10,500			
				Others 10,000				
7	LLD6 FC 1	Construction of an Entrance way for tractor		Earth works 1 cu	500	Labors 2 days	350	350
				HP dia.12" 12 ft	4,200			
8	LLD6 FC 1	Concreting the bottom of canal Concreting 100m	L 100 m H 1 1/2 ft W 1 1/2 ft	Concrete 11 cu	90,200	Skilled 11 days	3,025	14,875
				Earth works 50 cu		Labors 85 days	14,875	
				Metal 5 cu	13,000	Labors 111 days	19,425	
						Labors 11 days	1,925	
9	LLD6 FC 2	Cross control	Filling earth to washed out cross control H 4 ft	RRM 1 cu	3,200	Skilled 1 days	275	875
						Labors 5 days	875	
				Earth works 3 cu		Labors 7 days	1,225	
				Metal 1 cu	2,600	Labors 2 days	350	
10	LLD6 FC 2	Canal road filling earth & surface gravel	L 200m W 12 ft	Earth works 38 cu	19,000	Labors 84 days	14,700	14,700
				Gravel 21 cu	42,000	Labors 47 days	8,225	8,225
11	LLD6 FC 3-1	Raising the bottom of canal	L 200m H 9 inch	Earth works 19 cu	9,500	Labors 42 days	7,350	7,350
12	LLD6 FC 3	Rehabilitation of turnout	Provide a door to the turnout	Concrete 1 cu	8,200	Skilled 1 days	275	1,400
						Labors 8 days	1,400	
				Earth works 1 cu		Labors 2 days	350	
				Slide gate dia. 300 1 nos	11,500			
				HP dia.12" 20 ft	7,000			

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
13	LLD6 FC 4	Concreting the canal	L 150 m H 1 1/2 ft W 1 1/2 ft	Concrete 16 cu	131,200	Skilled 16 days	4,400	21,700
				Earth works 75 cu		Labors 124 days	21,700	
				Metal 7 cu	18,200	Labors 167 days	29,225	
						Labors 16 days	2,800	
14	LLD6 FC 5	Construction of a turnout		Concrete 1 cu	8,200	Skilled 1 days	275	1,400
				Earth works 1 cu		Labors 8 days	1,400	
				Slide gate dia. 300 1 nos	11,500	Labors 2 days	350	
				HP dia.12" 20 ft	7,000			
15	LLD6 FC 5	Earth filling L 100m Filling the canal bund	L 100m H 1 1/2 ft	Earth works 22 cu	11,000	Labors 49 days	8,575	8,575
16	LLD6 FC 6	Concreting the canal	L 150 m H 1 1/2 ft W 1 1/2 ft	Concrete 16 cu	131,200	Skilled 16 days	4,400	21,700
						Labors 124 days	21,700	
				Earth works 75 cu		Labors 167 days	29,225	
				Metal 7 cu	18,200	Labors 16 days	2,800	
17	LLD6 FC 6	Filling the canal road Earth filling & gravelling canal road 230 m	L 230m W 12 ft	Earth works 44 cu	22,000	Labors 98 days	17,150	17,150
				Gravel 24 cu	48,000	Labors 53 days	9,275	9,275
18	LLD6 FC 7	Concreting the canal	L 100 m H 1 1/2 ft W 1 1/2 ft	Concrete 11 cu	90,200	Skilled 11 days	3,025	14,875
				Earth works 50 cu		Labors 85 days	14,875	
				Metal 5 cu	13,000	Labors 111 days	19,425	
						Labors 11 days	1,925	
19	LLD6 FC 7	Filling the canal road Earth filling & surface gravel 198 m	L 198m W 12 ft	Earth works 38 cu	19,000	Labors 84 days	14,700	14,700
				Gravel 21 cu	42,000	Labors 47 days	8,225	8,225
20	LLD6 FC 8	Concreting the canal	L 1058 m H 1 1/2 ft W 1 1/2 ft	Concrete 115 cu	943,000	Skilled 115 days	31,625	155,925
				Earth works 529 cu		Labors 891 days	155,925	
				Metal 45 cu	117,000	Labors 1174 days	205,450	
						Labors 100 days	17,500	
21	LLD6 FC 8	Canal road filling earth & surface	L 1058m W 12 ft	Earth works 202 cu	101,000	Labors 448 days	78,400	78,400
				Gravel 112 cu	224,000	Labors 249 days	43,575	43,575
22	LLD6 FC 9	Concreting the canal	L 50 m H 1 1/2 ft W 1 1/2 ft	Concrete 5 cu	41,000	Skilled 5 days	1,375	6,825
						Labors 39 days	6,825	
				Earth works 25 cu		Labors 56 days	9,800	
				Metal 3 cu	7,800	Labors 7 days	1,225	
23	LLD6 FC 9	Canal road filling earth & surface gravel	L 50 m W 12 ft	Earth works 10 cu	5,000	Labors 22 days	3,850	3,850
				Gravel 5 cu	10,000	Labors 11 days	1,925	1,925
24	LLD6A 1	Construction of two nos. of tractor entrance		Earth works 2 cu	1,000	Labors 4 days	700	700
				HP dia.12" 24 ft	8,400			
25	LLD6A 1.3	Earth filling	L 400 m W 12 ft	Earth works 76 cu	38,000	Labors 169 days	29,575	29,575
				Gravel 42 cu	84,000	Labors 93 days	16,275	16,275
26	LLD6A 1.3	Surface gravelling	L 400 m W 12 ft	Gravel 42 cu	84,000	Labors 93 days	16,275	16,275
	Sub-total				3,034,000		1,108,675	1,057,525
	Grand-total				4,142,675			
	(US\$/ha)				461			

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 RANAMAYURA D. CANAL F.O

FROM SRAWASTIPURA
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පාකුලා මාවත
 PAWAKKULA MA DIV.



Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

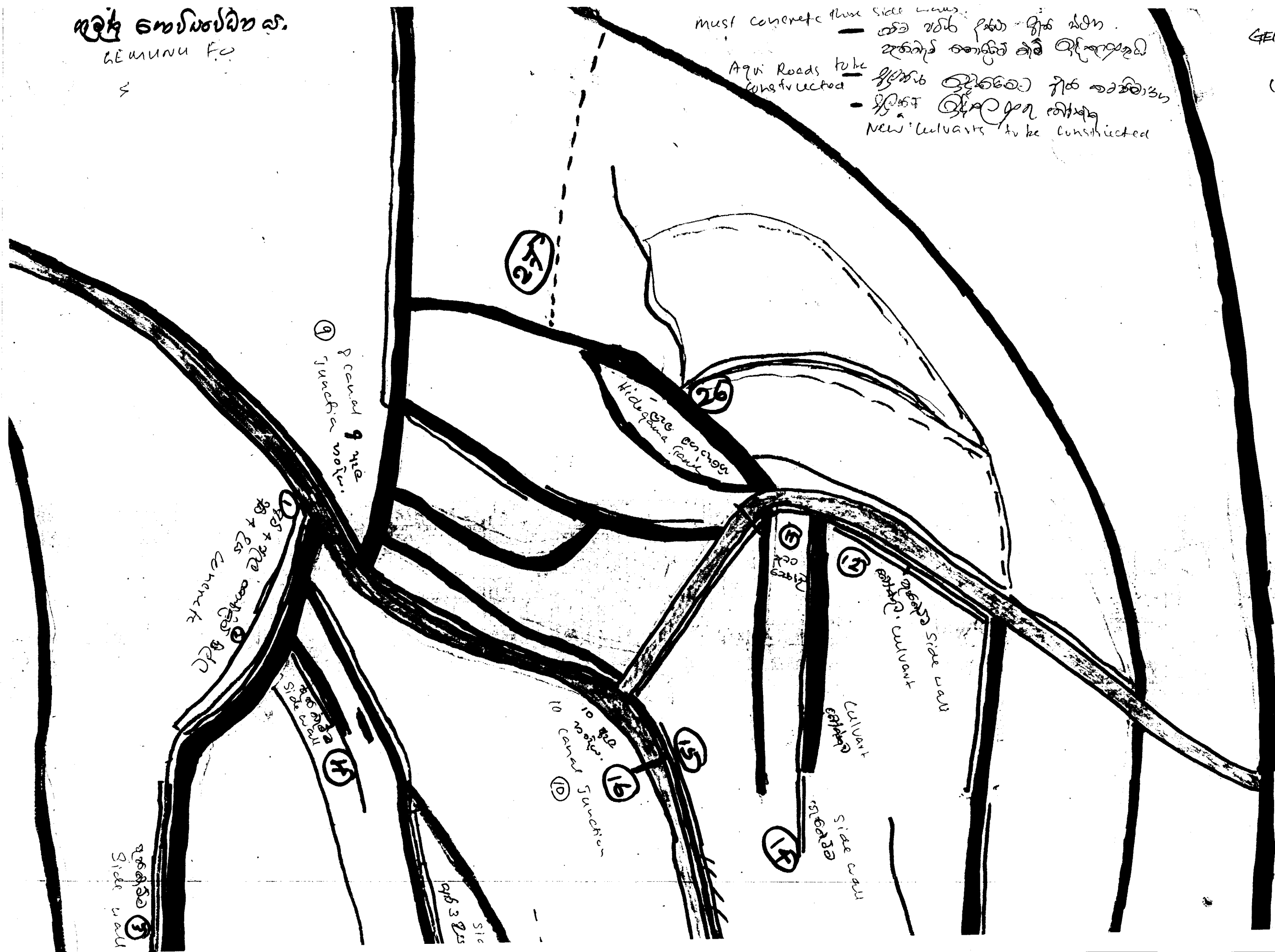
Name of Scheme : Nachchaduwa
Name of FO, etc. : Rana Mayura FO (12), LLD 6B to 8D, Extent of Land 338 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	LLD 8 - First Left Canal	Construction of a retaining wall on both sides of branch canal of 500m	L 500m W 9" H 3"	RRM 106 cu	339,200	Skilled 80 days	22,000	92,750
				Earth works 250 cu		Labors 530 days	92,750	
				Metal 16 cu		Labors 555 days	97,125	
2	LLD 8 Left canal Pond in the second pond	Concreting the pond and earth filing both sides	L 3 m, W 4' ft H 4' feet	Concrete 4 cu	32,800	Skilled 4 days	1,100	1,100
				Earth works 8 cu		Labors 31 days	5,425	
				Metal 1 cu		Labors 18 days	3,150	
3	LLD 8 Construction of a culvert on above branch canal at a 10 m distance	Since there is no culvert to drain the upper field 1/2 feet culvert is necessary	L 4 m	HP dia. 300mm 20 ft	7,000	Skilled 2 days	550	1,750
				RRM 2 cu		Labors 10 days	1,750	
				Earth works 2 cu		Labors 4 days	700	
4	LLD 8 Canal	Filling the FC road with gravel and rehabilitation	L 1 km W 3m	Earth works 159 cu	79,500	Labors 353 days	61,775	61,775
				Gravel 88 cu		Labors 195 days	34,125	
5	LLD 8C	To get water from 8C culvert, it is necessary to construct a structure across Heen Ela (Low level Canal)	L 5 m W 1 ft H 2 ft	HP dia. 300mm 20 ft	7,000	Skilled 2 days	550	1,750
				RRM 2 cu		Labors 10 days	1,750	
				Earth works 2 cu		Labors 4 days	700	
6	LLD 8C First water pond	Provide sand bags for branch canal from first water pond	L 50 m	Metal 1 cu	2,600	Labors 2 days	350	350
				Earth works 5 cu		Labors 11 days	1,925	
7	LLD 8C Water supply to Maha wela (field)	Lower the culvert by 1/2' feet	L 12m W 1m H 2 ft	HP dia. 300mm 20 ft	7,000	Skilled 2 days	550	1,750
				RRM 2 cu		Labors 10 days	1,750	
				Earth works 2 cu		Labors 4 days	700	
8	LLD 8C Branch canal which supplies water to Dangaha Kumbura / fields	Concreting the water supplying culvert opening and earth filling and closing the expected hume pipe with earth	L 500m W 1m H 1m	Metal 1 cu	2,600	Labors 2 days	350	350
				Concrete 107 cu		Skilled 107 days	29,425	
				Earth works 250 cu		Labors 829 days	145,075	
9	LLD 8C First field	Provide a water supply pipe, concreting and earth filling closing the expected pipe with earth	L 12m W1m H 1m	Metal 41 cu	106,600	Labors 91 days	15,925	15,925
				Concrete 107 cu		Skilled 107 days	29,425	
				Earth works 250 cu		Labors 829 days	145,075	
10	Near LD 8B Regulator	Construction of a bund (1 1/2' ft H) near the regulator	L 12 ft W 1 1/2ft H 1 1/2 ft	Concrete 1 cu	8,200	Skilled 1 days	275	1,400
				RRM 2 cu		Labors 10 days	1,750	
				Earth works 2 cu		Labors 4 days	700	
11	LLD 8B	Lining both sides with rubble in canal located behind community hall	L 15 ft W 3 ft H 3 1/2 inches	Metal 1 cu	2,600	Labors 2 days	350	350
				Concrete 107 cu		Skilled 107 days	29,425	
				Earth works 250 cu		Labors 829 days	145,075	
12	LLD 8B	Construction of side walls on both sides of road in first branch canal	L 1600 ft H 1 1/2 ft	RRM 57 cu	182,400	Skilled 43 days	11,825	49,875
				Earth works 244 cu		Labors 285 days	49,875	
				Metal 16 cu		Labors 542 days	94,850	

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation				
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)				
13	LLD 8B	Construction of water supplying culverts to paddy fields		HP dia. 300mm	20 ft	7,000	Skilled 2 days Labors 10 days	550 1,750		1,750 700 350		
				RRM	2 cu	6,400						
				Earth works	2 cu						Labors 4 days	700
				Metal	1 cu	2,600					Labors 2 days	350
14	LLD 8B	Construction of lower branch	L 500 m, H 1 1/2 ft	Earth works	111 cu	27,750	Labors 246 days	43,050		43,050		
		Construction of lower branch road	L 500 m, W 10 ft	Earth works	413 cu	206,500	Labors 917 days	160,475		160,475		
				Gravel	297 cu	594,000	Labors 659 days	115,325		115,325		
15		Rehabilitation of first culvert from water pond and using the reservation		HP dia. 300mm	20 ft	7,000	Skilled 2 days Labors 10 days	550 1,750		1,750 700 350		
				RRM	2 cu	6,400						
				Earth works	2 cu						Labors 4 days	700
				Metal	1 cu	2,600					Labors 2 days	350
16	LLD 8	Rehabilitation of right canal	L 2000' ft H 1 1/2' ft	RRM	12 cu	38,400	Skilled 9 days Labors 60 days	2,475 10,500		10,500		
				Earth works	50 cu		Labors 111 days	19,425		19,425		
				Metal	3 cu	7,800	Labors 7 days	1,225		1,225		
		Rehabilitation of road	L 2000' ft W 8' ft	Earth works	78 cu	39,000	Labors 173 days	30,275		30,275		
				Gravel	43 cu	86,000	Labors 95 days	16,625		16,625		
17	LLD 8	De-silting main canal	L 400' ft W 3' ft H 1'	Desilting	12 cu	400	Labors 27 days	4,725		4,725		
18	LLD 8	Construction of structure				100,000						
19	LLD 8	Rehabilitation of field canals roads	L 100' ft W 8' ft	Earth works	4 cu	2,000	Labors 9 days	1,575		1,575		
				Gravel	2 cu	4,000	Labors 4 days	700		700		
20	LLD 8	Rehabilitation of whole road with earth filling (gravel)	L 1 km W 3m	Earth works	159 cu	79,500	Labors 353 days	61,775		61,775		
				Gravel	88 cu	176,000	Labors 195 days	34,125		34,125		
21	LLD 6B sluice	Repair the leakage on both sides of sluice	L 10m W 30" inches H 6" inches	Concrete	1 cu	8,200	Skilled 1 days Labors 8 days	275 1,400		1,400		
				Earth works	1 cu		Labors 2 days	350		350		
				Slide gate dia. 300	2 nos	23,000						
				HP dia.12"	40 ft	14,000						
22	LLD 6C field canal	Construction of side wall	L 800 m H 2 ft	RRM	119 cu	380,800	Skilled 89 days Labors 595 days	24,475 104,125		104,125		
				Earth works	400 cu		Labors 888 days	155,400		155,400		
				Metal	25 cu	65,000	Labors 56 days	9,800		9,800		
23	LLD 7 canal	Rehabilitation of canal road clearing and earth filling	L 1 km W 3m	Earth works	159 cu	79,500	Labors 353 days	61,775		61,775		
				Gravel	88 cu	176,000	Labors 195 days	34,125		34,125		
24	LLD 7 FC2	Rehabilitation of side walls in FC 2	L 150 m H 2 ft	RRM	22 cu	70,400	Skilled 17 days Labors 110 days	4,675 19,250		19,250		
				Earth works	75 cu		Labors 167 days	29,225		29,225		
				Metal	5 cu	13,000	Labors 11 days	1,925		1,925		
25	Alkaluvila Tank main Sluice	Widering the bridge on sluice and construction of a safety fence Alkaluvila Tank main Sluice	L 10 m & 7 m			10,000						
26	LLD 6C, LLD 7 FC 1	Repairs to LLD 6C, LLD 7 FC 1 & 2 Sluice doors		Concrete	2 cu	16,400	Skilled 2 days Labors 16 days	550 2,800		2,800		
				Earth works	2 cu		Labors 4 days	700		700		
				Slide gate dia. 300	2 nos	23,000						
				HP dia.12"	40 ft	14,000						
	Sub-total					4,249,450		1,754,225		1,652,750		
	Grand-total					6,003,675						
	(US\$/ha)					618						

must concrete these side walls.
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අනෙක් කොටස් වලට වැඩිදියුණු
අලුත් වැට්ටිමට ගිණුම් කළමනාකරණ
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New culverts to be constructed

Aqui Roads to be constructed





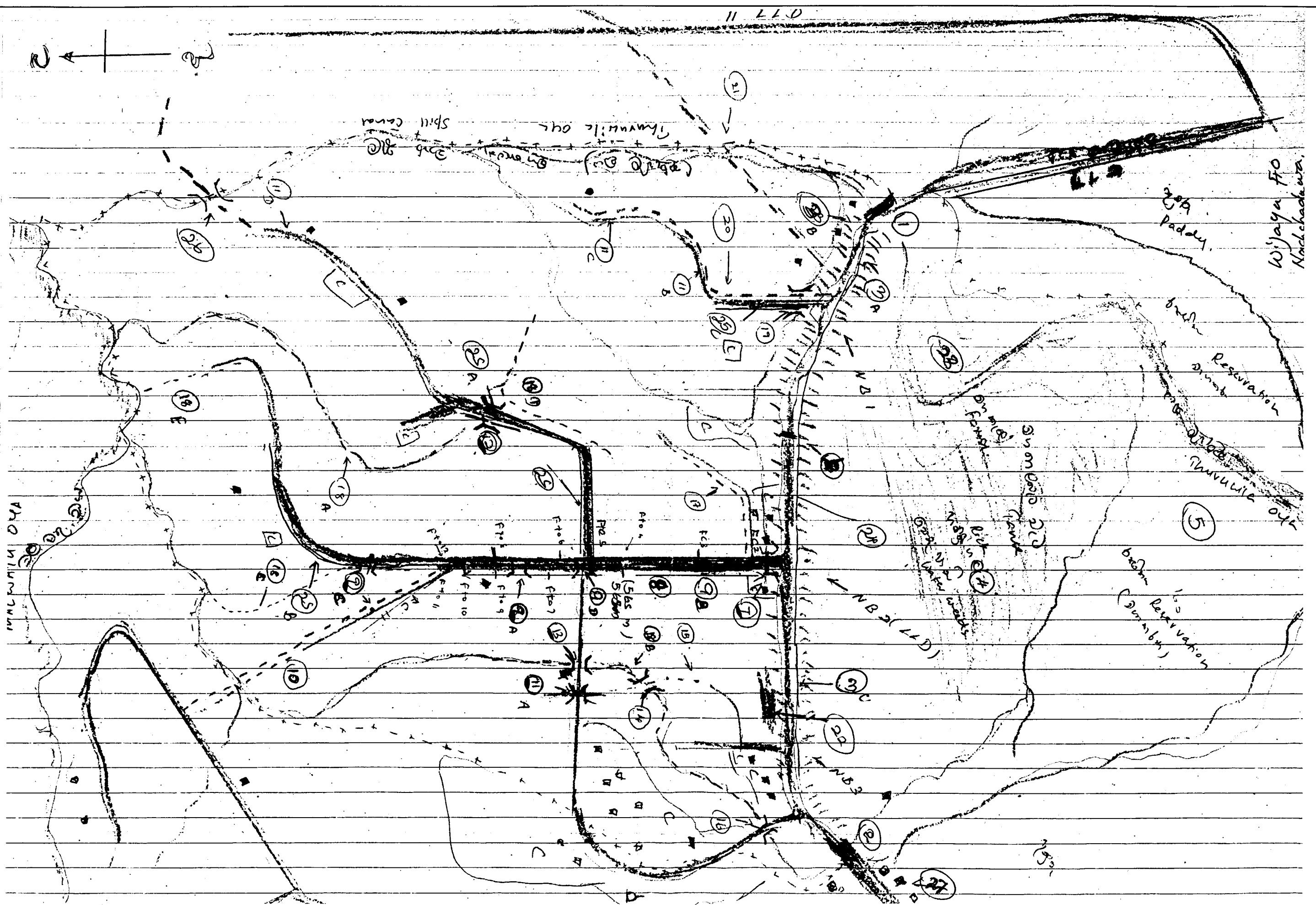
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Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Gemunu FO (13), LLD 9 to 10E, Extent of Land 426 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
1	LLD 9	Repair beginning section of the main canal with concrete walls & basin	L 12' W 4' H 4'	Included in rehabilitation plan of Irrigation Department of LLD9					
2	LLD 9	Concreting main canal	L 800m W 1m H 1m	Included in rehabilitation plan of Irrigation Department of LLD9					
3	LLD 9	Side walls (both side)	L 500m W 1m H 1m	Included in rehabilitation plan of Irrigation Department of LLD9					
4	LLD 9 FC2	Side walls	L 200m W 3/4m H 1/2m	RRM	30 cu	96,000	Skilled 23 days	6,325	26,250
				Earth works	100 cu		Labors 150 days	26,250	
				Metal	6 cu	15,600	Labors 222 days	38,850	
							Labors 13 days	2,275	2,275
5	LLD 9 FC1	Side walls	L 600m W 3/4m H 1/2m	RRM	89 cu	284,800	Skilled 67 days	18,425	77,875
				Earth works	300 cu		Labors 445 days	77,875	
				Metal	19 cu	49,400	Labors 666 days	116,550	
							Labors 42 days	7,350	7,350
6	LLD9 FC12	Side walls	L 100m W 3/4m H 1/2m	RRM	15 cu	48,000	Skilled 11 days	3,025	13,125
				Earth works	50 cu		Labors 75 days	13,125	
				Metal	3 cu	7,800	Labors 111 days	19,425	
							Labors 7 days	1,225	1,225
7	LLD9 FC13-1	Side walls	L 50m W 3/4m H 1/2m	RRM	7 cu	22,400	Skilled 5 days	1,375	6,125
				Earth works	25 cu		Labors 35 days	6,125	
				Metal	2 cu	5,200	Labors 56 days	9,800	
							Labors 4 days	700	700
8	LLD9 FC13-2	Side walls	L 150m W 3/4m H 1/2m	RRM	22 cu	70,400	Skilled 17 days	4,675	19,250
				Earth works	75 cu		Labors 110 days	19,250	
				Metal	5 cu	13,000	Labors 167 days	29,225	
							Labors 11 days	1,925	1,925
9	LLD9 FC14	Side walls	L 400m W 3/4m H 1/2m	RRM	59 cu	188,800	Skilled 44 days	12,100	51,625
				Earth works	200 cu		Labors 295 days	51,625	
				Metal	13 cu	33,800	Labors 444 days	77,700	
							Labors 29 days	5,075	5,075
10	LLD9 FC15	Side walls	L 150m W 3/4m H 1/2m	RRM	22 cu	70,400	Skilled 17 days	4,675	19,250
				Earth works	75 cu		Labors 110 days	19,250	
				Metal	5 cu	13,000	Labors 167 days	29,225	
							Labors 11 days	1,925	1,925
11	LLD 10	Sluice to Hidagama Tank, Construction of culvert and gate to canal to store water		Culvert: Included in rehabilitation plan of Irrigation Department of 11 nos of service tanks					
12	LLD 10 FC4	Side wall both sides	L 400m W 1m H 1m Both sides	RRM	110 cu	352,000	Skilled 83 days	22,825	96,250
				Earth works	200 cu		Labors 550 days	96,250	
				Metal	13 cu	33,800	Labors 444 days	77,700	
							Labors 29 days	5,075	5,075
13	LLD 10 FC4	Side walls	L 100m W 3/4m H 1/2m	RRM	15 cu	48,000	Skilled 11 days	3,025	13,125
				Earth works	50 cu		Labors 75 days	13,125	
				Metal	3 cu	7,800	Labors 111 days	19,425	
							Labors 7 days	1,225	1,225
14	LLD 10 FC3	Side walls	L 100m W 3/4m H 1/2m	RRM	15 cu	48,000	Skilled 11 days	3,025	13,125
				Earth works	50 cu		Labors 75 days	13,125	
				Metal	3 cu	7,800	Labors 111 days	19,425	
		Culvert		HP dia. 600mm	20 ft	14,000	Skilled 2 days	550	1,750
				RRM	2 cu	6,400	Labors 10 days	1,750	
				Earth works	2 cu		Labors 4 days	700	
				Metal	1 cu	2,600	Labors 2 days	350	350
15	LLD 10	Side wall	L 300m H 1 1/2m	RRM	102 cu	326,400	Skilled 77 days	21,175	89,250
				Earth works	150 cu		Labors 510 days	89,250	
				Metal	10 cu	26,000	Labors 333 days	58,275	
							Labors 22 days	3,850	3,850

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
16	LLD 10	Culvert		HP dia. 600mm	20 ft	14,000	Skilled 2 days Labors 10 days Labors 4 days Labors 2 days	550 1,750 700 350	
				RRM	2 cu	6,400			
				Earth works	2 cu				
				Metal	1 cu	2,600			
17	LLD 10 FC8	Culvert for distribution		HP dia. 600mm	20 ft	14,000	Skilled 2 days Labors 10 days Labors 4 days Labors 2 days	550 1,750 700 350	
				RRM	2 cu	6,400			
				Earth works	2 cu				
				Metal	1 cu	2,600			
		Side walls	L 100m H 1m	RRM	24 cu	76,800	Skilled 18 days Labors 120 days Labors 111 days Labors 7 days	4,950 21,000 19,425 1,225	
				Earth works	50 cu				
				Metal	3 cu	7,800			
18	LLD 11	Side walls	L 200m H 1 1/2m	Included in rehabilitation plan of Irrigation Department of LLD11					
19	LLD 11 FC1	Side walls	L 500m H 1m	RRM	122 cu	390,400	Skilled 92 days Labors 610 days Labors 555 days Labors 36 days	25,300 106,750 97,125 6,300	106,750 97,125 6,300
				Earth works	250 cu				
				Metal	16 cu	41,600			
20	LLD 11 FC1	Side walls	L 150m H 1/2m	RRM	22 cu	70,400	Skilled 17 days Labors 110 days Labors 167 days Labors 11 days	4,675 19,250 29,225 1,925	19,250 29,225 1,925
				Earth works	75 cu				
				Metal	5 cu	13,000			
21	LLD 11 FC7	Side walls	L 600m H 1 1/2m	RRM	204 cu	652,800	Skilled 153 days Labors 1020 days Labors 666 days Labors 42 days	42,075 178,500 116,550 7,350	178,500 116,550 7,350
				Earth works	300 cu				
				Metal	19 cu	49,400			
22	LLD 11 to LLD 9	Road construction - Earth fill	L 1000m W 10 ft	Earth works	827 cu	413,500	Labors 1836 days	321,300	321,300
23	Canal from LLD 11 to Hembawa Tank	Side walls (Both sides)	L 1000m H 1 1/2m	Gravel	212 cu	424,000	Labors 471 days	82,425	82,425
				RRM	339 cu	1,084,800	Skilled 254 days Labors 1695 days Labors 1110 days	69,850 296,625 194,250	296,625 194,250 12,425
				Earth works	500 cu		Labors 71 days	12,425	
24	LLD 9	Culvert		Included in rehabilitation plan of Irrigation Department of LLD11					
25	LLD 11 FC1	Culvert		HP dia. 600mm	20 ft	14,000	Skilled 2 days Labors 10 days Labors 4 days Labors 2 days	550 1,750 700 350	1,750 700 350
				RRM	2 cu	6,400			
				Earth works	2 cu				
				Metal	1 cu	2,600			
26	Hidagama Tank	Complete rehabilitation including 2 sluices		Included in rehabilitation plan of Irrigation Department of 11 nos of service tanks					
27	Hidogama Tank Drain canal	Rehabilitation of drain canals	L 3000 m	Included in rehabilitation plan of Irrigation Department of 11 nos of service tanks					
28	All FCs	Widen all FCs to standard size and bunds filling with earth Remove all the trees planted on canal bunds and earth filling	L 5,200 m	Earth works	551 cu	137,750	Labors 1223 days	214,025	214,025
29	All agricultural roads	Rehabilitation of all agricultural roads with earth filling	L 5,200 m W 3 m	Earth works	827 cu	413,500	Labors 1836 days	321,300	321,300
				Gravel	551 cu	1,102,000	Labors 1223 days	214,025	214,025
	Sub-total					6,821,350		3,474,600	3,224,900
	Grand-total					10,295,950			
	(US\$/ha)					841			



Rehabilitation Plan & Cost Estimation for
Nachchaduwa Scheme Proposed by Farmers' Organization

Name of Scheme : Nachchaduwa
Name of FO, etc. : Wiyaya FO (14), LLD11 to 11A, Extent of Land 348 acres

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	Low level spill	Width is not enough and old (100yrs.). Therefore not functioning well and cannot store water in the tank. To widen the spill and fix doors should be recommendable.	Length 100 ft. Augment 3 ft. with 6 emergency doors	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
2	High level spill	Spill and road shall be rehabilitated.	Length 100 ft. Width 20 ft.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
3	Tank bund	Bathing step should be rehabilitated (A & B).	Width 30 ft.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
4	Tank bund	Bathing step should be rehabilitated (C).	Length 150 ft. Height 8 ft.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
5	Tank bed	Tank is full of vegetation heavily silted.	5 acres up to 1.5 ft.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
6	Tank catchment	Since catchment area is cultivated, silting is remarkable. It is necessary to ensure reservation and re-forestation area.	Survey on catchment area Re-foresting 500 acres	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
7	Tank Bund	Widen top width of the bund for traffic	Length 1.5km Width 20 ft. Height 3 ft.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
8	Canal and road system	Construct culverts, where drain canal interfering with the canal system	Five culverts with 2' dia.	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
9	D-Canal bund	Concrete side wall construction against leakage	Length 565 m Height 3 ft. Width 4 ft	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank				
10	D & F-Canal	Installation of bridges and culverts to across for vehicle	3 bridges over D-Canal 5 culverts over F-Canal	HP dia. 600mm RRM Earth works Metal	160 ft 16 cu 16 cu 8 cu	112,000 51,200 20,800	Skilled 12 days Labors 80 days Labors 36 days Labors 18 days	3,300 14,000 6,300 3,150

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
11	Connection Canal	Construction of a connection canal from HLD26 up to FC7 with across road	Canal Length 900m Height 3 ft.	RRM 191 cu	611,200	Skilled 143 days	39,325	167,125	
				Earth works 450 cu		Labors 955 days	167,125	174,825	
				Metal 29 cu	75,400	Labors 64 days	11,200	11,200	
			Road Length 900m Width of road 8 ft.	Earth works 572 cu	286,000	Labors 1270 days	222,250	222,250	
12	F-Canal	Since F-Canal is not existing, a new canal should be constructed	Length 650m	Gravel 153 cu	306,000	Labors 340 days	59,500	59,500	
				Earth works 69 cu	17,250	Labors 153 days	26,775	26,775	
13	New Road	New construction of agricultural road	Length 300 m Width 2.5 m Height 0.6 m	Earth works 191 cu	95,500	Labors 424 days	74,200	74,200	
				Gravel 53 cu	106,000	Labors 118 days	20,650	20,650	
14	Drainage canal	Drainage canal shall be rehabilitated.	Length 4,000 m	Earth works 2,000 cu		Labors 4440 days	777,000	777,000	
15	New canal & road	Construction of a new canal to provide water to the end of D-Canal from the tank	D-canal length 900m Height 3 ft. Width 4 ft	Concrete 192 cu	1,574,400	Skilled 192 days	52,800	260,400	
				Earth works 450 cu		Labors 1488 days	260,400	260,400	
				Metal 73 cu	189,800	Labors 999 days	174,825	174,825	
			Width of road 8 ft. Road length 900m	Earth works 572 cu	286,000	Labors 162 days	28,350	28,350	
16	Tank bund	Rip rap protection	Length 800 m Width 3 m	Earth works 572 cu	286,000	Labors 1270 days	222,250	222,250	
				Gravel 153 cu	306,000	Labors 340 days	59,500	59,500	
17	Canal	Canals running through low area which shall be rehabilitated as concrete lining.	25 - L 200 m x 0.6 m 25A - L 100m x 0.6 m 25B - L 250 m x 0.6 m 25C - L 150 m x 0.6 m	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank					
				Concrete 96 cu	787,200	Skilled 96 days	26,400	130,200	
				Earth works 350 cu		Labors 744 days	130,200	130,200	
				Metal 35 cu	91,000	Labors 777 days	135,975	135,975	
18	All F-canal	All F-canal shall be rehabilitated as a cross section with 3-4 ft. width	Length 3.5 km	Earth works 2,205 cu	551,250	Labors 78 days	13,650	13,650	
						Labors 4895 days	856,625	856,625	
	Sub-total				5,467,000		3,560,575	3,438,750	
	Grand-total				9,027,575				
	(US\$/ha)				903				