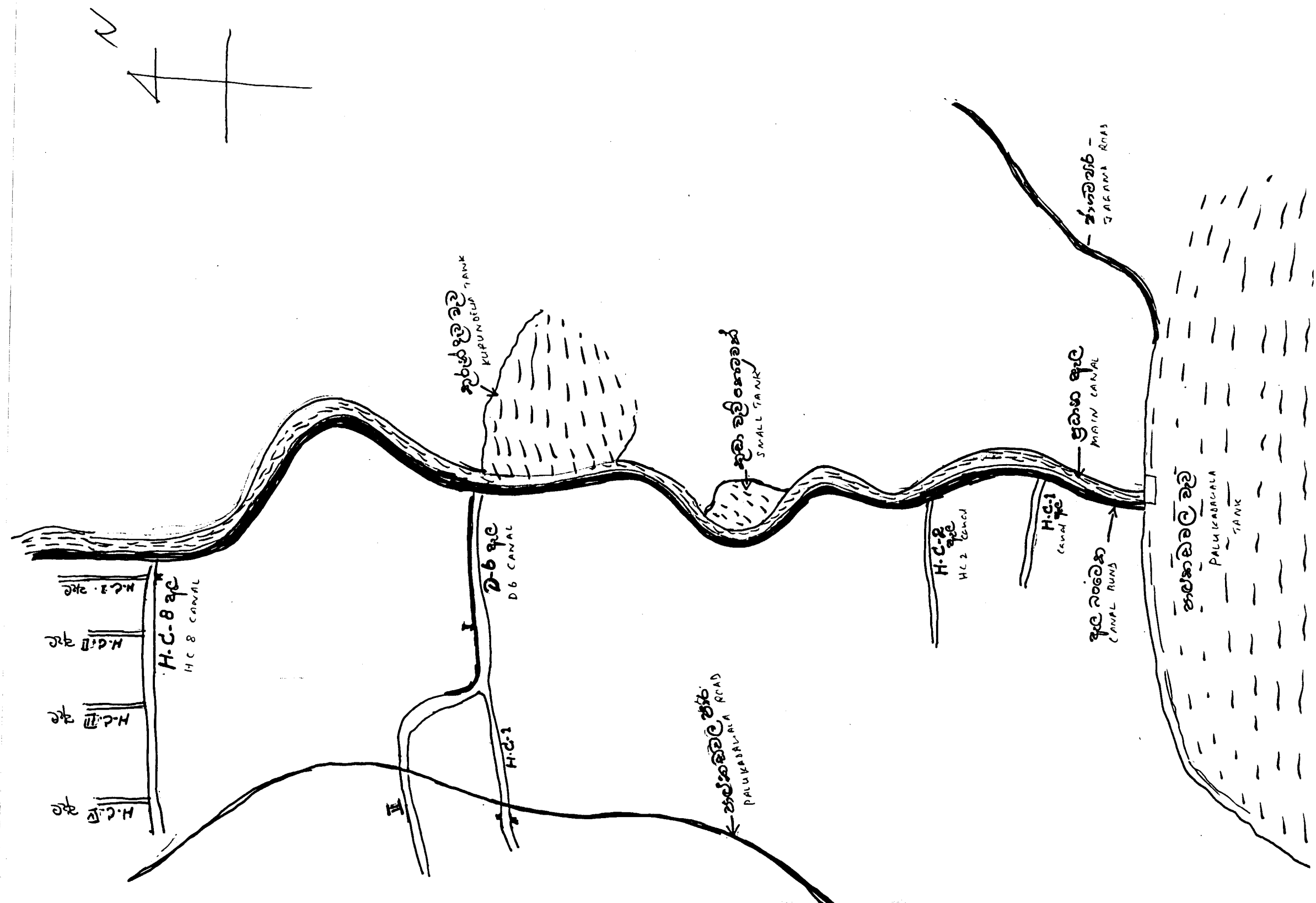


Chapter 2

PALUKADAWELA MAJOR IRRIGATION SCHEME

- Rehabilitation and Improvement Plan by Farmers -

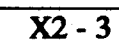


Rehabilitation Plan & Cost Estimation for
Palukadawela Scheme Proposed by Farmers' Organization

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 1

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	Colored section of the map under I	Filling earth and turfing the colored section	Filling earth	Included in rehabilitation plan of Irrigation Department of Main canal				
		Length about - 400 meters, width 12 ft	Turfing					
2	Provision of 23 Nos. pipes to distribute water to paddy fields	Remove the existing pipes and replace them with new pipes with small structures for both sides (turnout)	Pipes 6' ft x 23 nos.	Concrete	46 cu	377,200	Skilled 46 days	12,650
			Side concrete blocks 18 nos.	Earth works	46 cu		Labors 357 days	62,475
			(3' ft 1 1/2' ft x 2' ft)	Side gate dia. 300	23 nos	264,500	Labors 102 days	17,850
				HP dia.12"	460 ft	161,000		
				Removing	23 nos		Labors 51 days	8,925
	Sub-total				802,700			92,975
	Grand-total				895,675			80,325



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

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 2

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	Removing earth heaps from tank	Remove earth by dozer machine from tank bed and push rocks beyond tank bund up to sluice sill level. Left over earth dump on narrow places of canal bund with tractors	1 acre 1 mile	Desilting Soil haulage	2,860 cu 2,860 cu	1,144,000 486,200				
2	D9 canal - outlet to lot no. 78	At present the pipe is broken, because this water is obtained by cutting through the road and the road is damaged must provide a pipe to the width of the road must demarcate the reservation - as mentioned above-	24 ft long	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
3	D9 canal outlet to lot no. 79		as mentioned above	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
4	D10 / 3 field canal gate	The rod and the door should be replaced and cover with concrete and apply anti-corrosive paint (turnout)	9" inch gate	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
5	D10 / 3 canal road	Fill the pet holes with earth and gravel compact with a roller and hand over to farmers	Length 500m W 3 m	Earth works Gravel	80 cu 53 cu	40,000 106,000	Labors	178 days 118 days	31,150 20,650	31,150 20,650
6	Side wall near D10/5 canal	Since water of leaking from this earth canal bund must construct a rubble masonry wall, plaster to prevent leaking and hand over to farmers for maintaining	Length 50m, W 30 cm H 75 cm	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
7	D10/5 field canal gate	as per no.4	as per no.4	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
8	Side wall of D10 near D10/6 canal	As per no.6	As per no.6	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
9	D10/4/1 field canal bund	Earth filling, compact, turfing	Length 150m, bed width 45 cm, Height 75 cm	Earth works Turfing	51 cu 23 sq	12,750	Labors	113 days 16 days	19,775 2,800	19,775 2,800
10	D10/7 canal road	As per no.5	As per no.5	Earth works Gravel	80 cu 53 cu	40,000 106,000	Labors	178 days 118 days	31,150 20,650	31,150 20,650
11	D10/7 canal outlet to lot no. 157	As per no.2	As per no.2	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
12	D10/7 canal outlet to lot no. 158	As per No.11	As per No.11	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
13	D10/7 canal outlet to lot no. 159	As per No.11	As per No.11	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
14	D10/7 canal outlet to lot no. 160	As per No.11	As per No.11	HP dia. 6 inch Concrete	24 ft 1 cu	5,040 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
15	D 10/7 canal outlet upper lot	Pipe outlet	Length 30' ft 6" inches dia pipes	HP dia. 6 inch Concrete	30 ft 1 cu	6,300 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors	2 days	350	350
16	D 10/8 canal road	As per No. 5	Length 500m, W 10' ft	Earth works Gravel	80 cu 53 cu	40,000 106,000	Labors	178 days 118 days	31,150 20,650	31,150 20,650
17	D10/9 canal road	As per No. 5	Length 600m, W 10' ft	Earth works Gravel	95 cu 64 cu	47,500 128,000	Labors	211 days 142 days	36,925 24,850	36,925 24,850
18	D10/9 side wall on the beginning of canal	presently the bund is dilapidated and cracked. Remove old masonry wall and concrete the wall 4" inches	Length one side 3 m x 2 sides H 5ft	Included in rehabilitation plan of Irrigation Department of						

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.)		
19	Side wall near drain pipe of D10/9 canal	- do -	- do -	Concrete	1 cu	8,200	Skilled	1 days	275	275
				Earth works	2 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	4 days	700	700
				Removing	3 m		Labors	2 days	350	350
							Labors	3 days	525	525
20	Darin canal anicut near lot 187	Both sides are heavily washed off must fill with earth and compact construct a concrete bund across canal and fix gates to release water when necessary	Concrete bund 3 ft high, L 10m	Concrete	2 cu	16,400	Skilled	2 days	550	550
				Earth works	5 cu		Labors	16 days	2,800	2,800
				Metal	1 cu	2,600	Labors	11 days	1,925	1,925
			Gate	Concrete	2 cu	16,400	Skilled	2 days	350	350
				Earth works	2 cu		Labors	2 days	550	550
				Slide Gate 1000x500	1 nos	300,000	Labors	16 days	2,800	2,800
						Labors	4 days	700	700	
21	D10/10 canal road	Clear the road of scrub and grass earth filling and compacting and	Length 500m	Earth works	80 cu	40,000	Labors	178 days	31,150	31,150
				Gravel	53 cu	106,000	Labors	118 days	20,650	20,650
22	D10/10 canal sluice rod	Remove the broken rod and fix a new one with concrete sides.	4 ft high	Rod 4 ft	1 nos	5,000				
23	Inlet pipe to lot no. 185	as per No. 2	Length 12' ft	HP dia. 6 inch	12 ft	2,520				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
24	Inlet to lot no 186	As sama as No. 2	Length 12' ft	HP dia. 6 inch	12 ft	2,520				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
25	D10/11 canal gate rod	As sama as No. 4	Sama as No. 4	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
26	D10/11 Canal road	Same as No. 5	Length 520m same as No. 5	Earth works	83 cu	41,500	Labors	184 days	32,200	32,200
				Gravel	55 cu	110,000	Labors	122 days	21,350	21,350
27	Inlet pipe to lot 204	Same as No. 11	Same as No. 11	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
28	Inlet pipe to lot 208	Same as No. 11	Same as No. 11	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
29	Inlet pipe to lot 224	Same as No. 2	Same as No. 2	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
30	Inlet pipe to lot 222	Same as No. 2	Length 24' ft	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
31	D11 canal	Same as No. 4	Door and rod	Included in rehabilitation plan of Irrigation Department of Main canal						
32	Inlet pipe to lot 161	Sama as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	1 cu		Labors	8 days	1,400	1,400
				Metal	1 cu	2,600	Labors	2 days	350	350
33	D11 canal road right side	Same as No. 5	Length 700m	Earth works	111 cu	55,500	Labors	246 days	43,050	43,050
				Gravel	74 cu	148,000	Labors	164 days	28,700	28,700
34	D12 canal road	Same as No. 5	Length 500m	Earth works	111 cu	55,500	Labors	246 days	43,050	43,050
				Gravel	74 cu	148,000	Labors	164 days	28,700	28,700

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

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 2

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.)	
35	Inlet pipe to lot 165	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
36	Inlet pipe to lot 166	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
37	Inlet pipe to lot 167	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
38	D10/4/FC7 Road	Sama as No. 5	Length 700m	Earth works Gravel	111 cu 74 cu	55,500 148,000	Labors Labors	246 days 164 days	43,050 28,700	43,050 28,700
39	D10/4/FC7 Right canal bund	Same as No. 9	Length 700m	Earth works Gravel	111 cu 74 cu	55,500 148,000	Labors Labors	246 days 164 days	43,050 28,700	43,050 28,700
40	D10/4/FC7 side wall at the beginning of canal	Same as No. 18	Length 3m x both sides = 6m	Concrete Earth works Metal Removing	1 cu 2 cu 1 cu 3 m	8,200 2,600	Skilled Labors Labors Labors	1 days 8 days 4 days 3 days	275 1,400 700 525	275 1,400 700 525
41	D10/4/FC8 door and rod	Same as No. 4	Door and rod	Concrete Earth works Slide gate dia. 300 HP dia.12"	2 cu 2 cu 1 nos 20 ft	16,400 11,500 7,000	Skilled Labors Labors	2 days 16 days 4 days	550 2,800 700	2,800 700
42	D10/4/FC8 canal bund	Same as No. 6	Length 70m x both side = 140m	RRM Earth works Metal Plaster	8 cu 35 cu 2 cu 11 sq	25,600 5,200 4,069	Skilled Labors Labors Skilled Labors	6 days 40 days 78 days 4 days 8 days 11 days	1,650 7,000 13,650 700 2,200 175	7,000 13,650 700 2,200 175
43	D10/4/FC8 to D10/4/FC9 side wall of left side of canal	Same as No. 6	Length 75m x left side of canal	Included in rehabilitation plan of Irrigation Department of D10/Tract 2						
44	Inlet pipe to lot 291	Same as No. 23	Length 6' ft	HP dia. 6 inch Concrete	6 ft 1 cu	1,260 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
45	D10/FC12/1 canal road	Same as No. 5	Length 500m	Earth works Gravel	80 cu 53 cu	40,000 106,000	Labors Labors	178 days 118 days	31,150 20,650	31,150 20,650
46	D10/FC12 canal road	Same as No. 5	Length 700m	Earth works Gravel	111 cu 74 cu	55,500 148,000	Labors Labors	246 days 164 days	43,050 28,700	43,050 28,700
47	D10/FC12 side wall at the beginning of canal	Same as No. 18	Length 3 x both sides = 6m	Concrete Earth works Metal Removing	1 cu 2 cu 1 cu 3 m	8,200 2,600	Skilled Labors Labors Labors	1 days 8 days 4 days 2 days 3 days	275 1,400 700 350 525	275 1,400 700 350 525
48	Inlet pipe to lot 241	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
49	Inlet pipe to lot 242	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	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.)	
50	Inlet pipe to lot 249	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
51	Inlet pipe to lot 251	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
52	Inlet pipe to lot 252	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
53	Inlet pipe to lot 254	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
54	Inlet pipe to lot 244	Same as No. 23	Length 12' ft	HP dia. 6 inch Concrete	12 ft 1 cu	2,520 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
55	Inlet pipe to lot 245	Same as No. 23	Length 12' ft	HP dia. 6 inch Concrete	12 ft 1 cu	2,520 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
56	D10/FC12 Lot 252 Construction of a culvert	Excavate the foundation to correct measurement, Base concrete with 1:3:6 mix - thickness 4" inches Rubble masonry wall over there and fix hume pipes and construct the wall	Culvert Hume pipes 1 1/2' dia x 8 x 2 Nos. RRN wall L 9 m, H 2 ft	HP dia. 450mm Concrete	30 ft 2 cu	16,200 16,400	Skilled Labors	2 days 16 days	550 2,800	2,800
				Earth works Metal	2 cu 1 cu	2,600	Labors Labors	4 days 2 days	700 350	700 350
				RRM	1 cu	3,200	Skilled Labors	1 days 5 days	275 875	875
				Earth works Metal	5 cu 1 cu	2,600	Labors Labors	11 days 2 days	1,925 350	1,925 350
57	D10/4 to Weherayaya canal Road (D10)	Same as No. 5	Length 3 km, W 10' ft	Earth works Gravel	477 cu 318 cu	238,500 636,000	Labors Labors	1059 days 706 days	185,325 123,550	185,325 123,550
58	Inlet Pipe Lot 106	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
59	Inlet Pipe Lot 107	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
60	Inlet Pipe Lot 108	Same as No. 11	Length 18' ft	HP dia. 6 inch Concrete	18 ft 1 cu	3,780 8,200	Skilled Labors	1 days 8 days	275 1,400	1,400
				Earth works Metal	1 cu 1 cu	2,600	Labors Labors	2 days 2 days	350 350	350
61	Side wall of the left side of D10/4 from drain canal entry to railway tract	Same as No. 9	Length about 50m	Earth works Turfing	233 cu 15 sq	116,500	Labors Labors	517 days 10 days	90,475 1,750	90,475 1,750
62	Road from Lot 98 to Lot 108	Same as No. 5	Length 700m	Earth works Gravel	111 cu 74 cu	55,500 148,000	Labors Labors	246 days 164 days	43,050 28,700	43,050 28,700
Sub-total						5,825,899			1,354,050	1,340,300
Grand-total						7,179,949				

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

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 3

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	Main canal Wall from Monnanklama culvert to	Construction of the wall		Included in rehabilitation plan of Irrigation Department of Main canal				
2	FC 1,2,3,4	Construction of sluices	4 nos. of turnout	Concrete 10 cu	82,000	Skilled 10 days	2,750	13,650 9,800
				Earth works 25 cu		Labors 78 days	13,650	
				Slide gate dia. 300 5 nos	57,500	Labors 56 days	9,800	
				HP dia.12" 100 ft	35,000			
3	D1	Rehabilitation of washed out section	H 2ft L 100 m	RRM 15 cu	48,000	Skilled 11 days	3,025	13,125 19,425 1,225
				Earth works 50 cu		Labors 75 days	13,125	
				Metal 3 cu	7,800	Labors 111 days	19,425	
						Labors 7 days	1,225	
		Construction of a line of steps		Concrete 1 cu	8,200	Skilled 1 days	275	1,400 350 350
				Earth works 1 cu		Labors 8 days	1,400	
				Metal 1 cu	2,600	Labors 2 days	350	
						Labors 2 days	350	
4	D1	Construction of side walls in washed out sections	H 2ft L 100 m	RRM 15 cu	48,000	Skilled 11 days	3,025	13,125 19,425 1,225
				Earth works 50 cu		Labors 75 days	13,125	
				Metal 3 cu	7,800	Labors 111 days	19,425	
						Labors 7 days	1,225	
5	D1	Demarcate reservations of canals and construction of canal roads		Earth works 100 cu		Labors 222 days	38,850	38,850
6	Welihiddewa Tank	Constriction of side walls on dilapidated bund sections	H 5 ft L 100 m	RRM 34 cu	108,800	Skilled 26 days	7,150	29,750 38,850 1,225
				Earth works 100 cu	50,000	Labors 170 days	29,750	
				Metal 3 cu	7,800	Labors 222 days	38,850	
						Labors 7 days	1,225	
		2 bathing steps		Concrete 10 cu	82,000	Skilled 10 days	2,750	13,650 11,725 700
				Earth works 30 cu		Labors 78 days	13,650	
				Metal 2 cu	5,200	Labors 67 days	11,725	
						Labors 4 days	700	
7	D2	Construction of side walls	H 2ft L 100 m	RRM 15 cu	48,000	Skilled 11 days	3,025	13,125 19,425 1,225
				Earth works 50 cu		Labors 75 days	13,125	
				Metal 3 cu	7,800	Labors 111 days	19,425	
						Labors 7 days	1,225	
8	D2	Demarcate reservation of canals and construction of canal roads		Earth works 100 cu		Labors 222 days	38,850	38,850
9	D2	Fixing the door	Turnout	Concrete 2 cu	16,400	Skilled 2 days	550	2,800 1,925
				Earth works 5 cu		Labors 16 days	2,800	
				Slide gate dia. 300 1 nos	11,500	Labors 11 days	1,925	
				HP dia.12" 20 ft	7,000			
10	D2	Since the culvert is in bad shape (front at D2) construct a new culvert to Janapala (colony) road		HP dia. 600mm 30 ft	21,000			2,800 3,850 350
				Concrete 2 cu	16,400	Skilled 2 days	550	
				Earth works 10 cu		Labors 16 days	2,800	
				Metal 1 cu	2,600	Labors 22 days	3,850	
	Sub-total				681,400		335,300	312,200
	Grand-total				1,016,700			

පාලුකඩාහල II භූමිමාලා
 මාස 04 ගොවිජනාධිපති වල නිවැරදි කිරීම.
 PALUKADAHALA STAGE II
 TRACK & F.O. PLAN.

TO NANNERIYA
 නානරියා.

ප්‍රධාන කැනල්
 MAIN CANAL

SCHOOL

අනුරාධපුරය
 ANURADHAPURA

අලකමුව.
 ALAKAMUWA

කුරුමිනි
 TO KURUMINNA

	ප්‍රධාන කැනල් MAIN CANAL
	පaddy බිම් PADDY LANDS
	උඩබිම් UPLANDS
	කැබුල් පාර GRAVEL ROAD
	ප්‍රධාන/ද. කැනල් MAIN/D. CANAL
	ගොවි/ද. කැනල් F.O.
	විදුලා School
	විදුලා Temple
	මසුමාන (Mosque)

Mosque

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

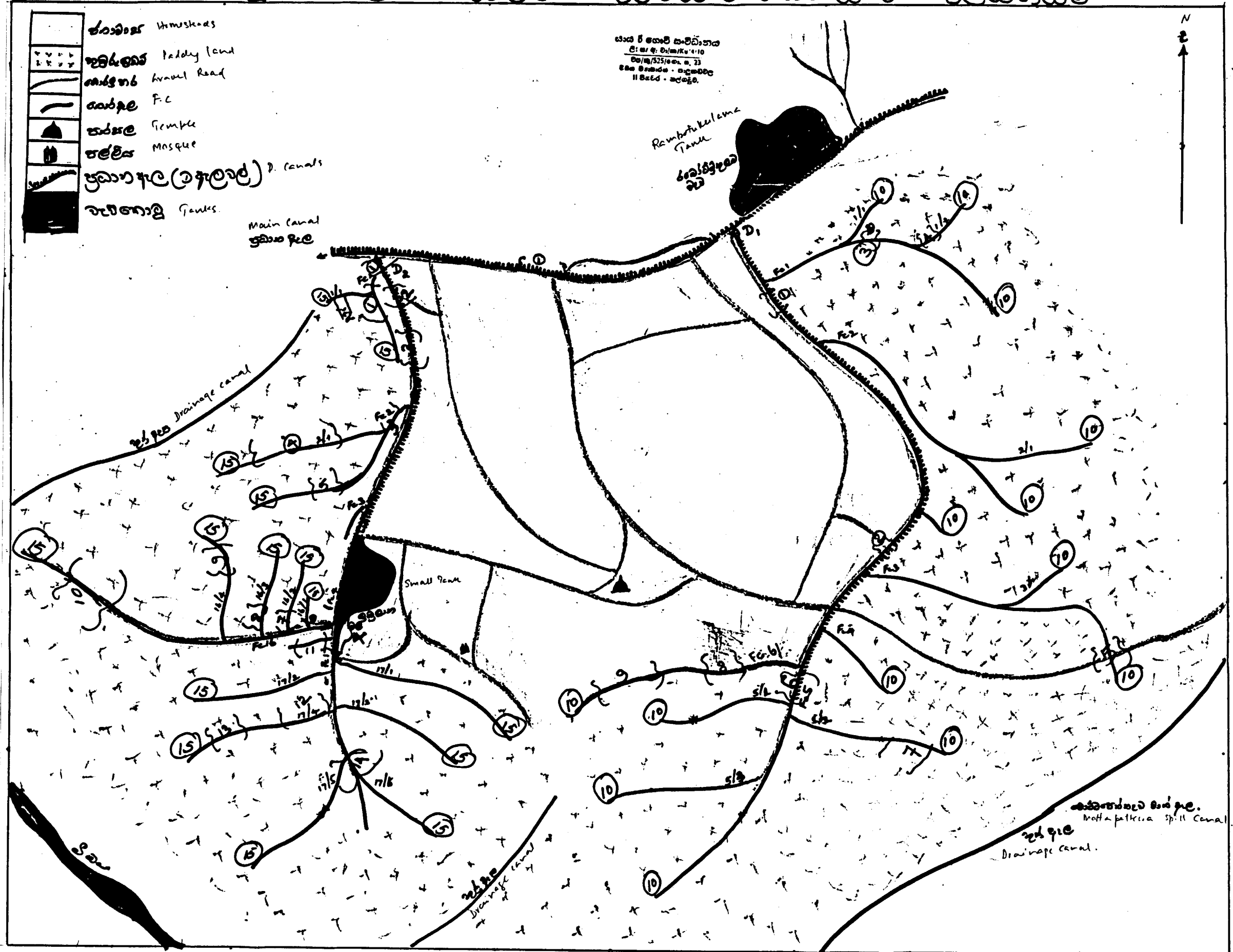
Name of Scheme : Palukadawela
Name of FO, etc. : Tract 4

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	Ref no. 3 Side wall of the small bund on Morrankulama rd. culvert	Side wall and earth filling	Concrete and rubble masonry wall 25' ft long foundation 1 1/2' ft deep Height 3' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
2	Ref no. 4 Main canal FC1	Fixing a door (turnout)	Material required to provide 1 6" inch door	Included in rehabilitation plan of Irrigation Department of Main canal				
3	Ref no. 5 Keenyagan bund and Mannankulama paddy fields	Repair the small bund with earth filling	Length 30 'ft width 6' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
4	Ref no. 6,7,8	Connected with No. 2 - 3 nos	Material required to provide 1 6" inch door	Included in rehabilitation plan of Irrigation Department of Main canal				
5	Ref no. 9 D1 canal end	Drainage cause way and construction of ditch with steps Concrete ditch	Length 20' ft width 18' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
		Steps	10' ft long 1' ft wide					
6	Ref no. 11 to 14 Welihiddewa bund	Construction of rip-rap on	Length about 150' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
7	Ref no. 12 to 13 near low level sluice and in front of Mila tree	Construction of 2 bathing steps in Welihiddewa Tank	Length 10' ft, width 1 1/2" ft, height 8' inches , 7 steps Length & width of slope, 15' ft & 12' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
16	Ref. No. 16 D2 canal	Constriction of a side wall and filling earth	Length 30' ft foundation 1 1/2' ft middle 15" inches and top 1' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
17	Ref. No. 17 Small bridge in front of Pahala Palukandewa Tank on Dewata Rd. (small)	Bridge	8' ft long 5' ft wide height 6' ft foundation 2' ft	Included in rehabilitation plan of Irrigation Department of Main canal				
18	Ref. No. 18 Drain pipe of Palukandewa Tank	Should repair since one hume pipe is cracked	Concreting the surface 7' ft long 5" inch wide 2" thick	Included in rehabilitation plan of Irrigation Department of Main canal				
Sub-total								0
Grand-total								

[illegible]

X2 - 10

පාලුකඩවල II පියවර ග්‍රාම 5 ගොවි.සං.වි. වැඩසටහන.



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

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 5

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	Near 8 1/4' - 8 1/2' culvert	Extension of stepped basin	L 10' ft, W 6' ft, H 4' ft	Included in rehabilitation plan of Irrigation Department of Main canal						
2	Below the above culvert	Construction of a side wall and earth filling	L 30' ft, W 5' ft, H 1' ft, foundation 1 1/2' deep	Included in rehabilitation plan of Irrigation Department of Main canal						
3	Near 8 3/4 post	Repairing the drain pipe, closing the expected sections with concrete	L 8' ft, W 1 1/2' ft	Included in rehabilitation plan of Irrigation Department of Main canal						
4	Near 8 3/4 post	Repair right side bund	L 100' ft top width 6' ft	Included in rehabilitation plan of Irrigation Department of Main canal						
5A	Rambotukulama tank bund	Construction of bathing step with 7 steps	L 9' ft, W 10' ft, x 7 steps, Height of step 8"	Included in rehabilitation plan of Irrigation Department of Main canal						
5B	Rambotukulama tank bund	Construction of bathing step with 7 steps	- do -	Included in rehabilitation plan of Irrigation Department of Main canal						
6	Rambotukulama tank	Provide a simple sluice door to issue water to main canal	Width 5 1/2' ft height 6' ft	Concrete	2 cu	16,400	Skilled	2 days	550	2,713 777
				Earth works	2 cu		Labors	16 days	2,713	
				Metal	1 nos	11,500	Labors	4 days	777	
				HP dia.	40 ft	28,000				
				Slide gate dia.	1 nos	40,000				
7	D1 canal between 200m point	Construction of a side wall	L 150' ft, H 4' ft	RRM	13 cu	41,600	Skilled	10 days	2,750	11,375 8,925 350
				Earth works	23 cu		Labors	65 days	11,375	
				Metal	1 cu	2,600	Labors	51 days	8,925	
8	Construction of a side wall near No. paddy land	About 20' ft long	L 20' ft, W 1' ft, H 3' ft	RRM	1 cu	3,200	Skilled	2 days	350	875 1,225 350
				Earth works	3 cu		Labors	1 days	275	
				Metal	1 cu	2,600	Labors	5 days	875	
9	FC 1/1 canal	Construction of basin and repairs to pipe line	L 12' ft, W 1' ft, H 3' ft	RRM	1 cu	3,200	Skilled	7 days	1,225	875 700 350
				Earth works	3 cu		Labors	2 days	350	
				Concrete	1 cu	8,200	Skilled	1 days	275	
				Earth works	2 cu		Labors	8 days	1,400	
				Metal	1 cu	2,600	Labors	4 days	700	
10	D canal near No. 2 homestead (upland)	Construction of side wall and a bridge	L 10' ft, W 1' ft, H 3' ft 2' ft concrete slab	RRM	1 cu	3,200	Skilled	2 days	350	875 700 350
				Earth works	2 cu		Labors	1 days	275	
				Metal	1 cu	2,600	Labors	5 days	875	
				2' ft concrete	2 cu	16,400	Labors	4 days	700	
				Reinforced bar	280 kg	16,800	Labors	2 days	350	
11	Bear FC2 canal	Construction of a side wall	l 30' ft, W 1' ft, H 3' ft	RRM	8 cu	25,600	Skilled	6 days	1,650	7,000 7,700 700
				Earth works	20 cu		Labors	40 days	7,000	
				Metal	2 cu	5,200	Labors	44 days	7,700	
							Labors	4 days	700	
12	Below FC2 canal	Rehabilitation of both sides of D1 canal	Length 300' ft	Earth works	31 cu	7,750	Labors	69 days	12,075	12,075
13	Near Dumbuluwewa Pond	Repairs to drainage pipe	Length 6' ft	HP dia.	6 ft	4,200			2,800 700 350	
				Concrete	2 cu	16,400	Skilled	2 days		550
				Earth works	2 cu		Labors	16 days		2,800
				Metal	1 cu	2,600	Labors	4 days		700
14	Near No. 7 Homestead (upland)	Construction of a side wall with steps and a structure	L 50' ft, W 1' ft, 3' ft	RRM	3 cu	9,600	Skilled	2 days	550	2,625 3,150 350
				Earth works	8 cu		Labors	15 days	2,625	
				Metal	1 cu	2,600	Labors	18 days	3,150	
15	1000m Inside D canal	Side wall for both sides	L 200' ft, W 1' ft, H 3' ft	RRM	13 cu	41,600	Skilled	2 days	350	11,375 11,725 700
				Earth works	30 cu		Labors	10 days	2,750	
				Metal	2 cu	5,200	Labors	65 days	11,375	
16	Foot path between No. 9 & 10 upland lots	Construction of a culvert across D1 canal	L 8' ft, W 6' ft, H 4' ft	HP dia.	8 ft	5,600			2,800 700 350	
				Concrete	2 cu	16,400	Skilled	67 days		11,725
				Earth works	2 cu		Labors	4 days		700
				Metal	1 cu	2,600	Labors	16 days		2,800
17	Near 1000m	Construction of a drain pipe laying a pipe line to send out rain water	L 24' ft, W 1' ft, H 3' ft L 6' ft x 4 Nos. hume pipes	HP dia.	24 ft	16,800			2,800 700 350	
				Concrete	2 cu	16,400	Skilled	2 days		550
				Earth works	2 cu		Labors	16 days		2,800
				Metal	1 cu	2,600	Labors	4 days		700
18	D1 canal above	Construction of bund with earth filling	L 75' ft, W 8' ft, H 2' ft	Earth works	8 cu	2,000	Labors	2 days	350	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.)		
19	FC6 between No. 46 and No. 47 paddy field	Construction of a structure to drain water	L 6' ft, W 8" inches H 4' ft	Concrete	1 cu	8,200	1 Skilled 8 days	275	1,400 700 350	
				Earth	2 cu		4 Labors 4 days	1,400		
				Metal	1 cu	2,600	2 Labors 2 days	700		
20	Between FC6 - 47 & 50	Rehabilitate canal bund with earth filling - construction of a basin below 100' ft	L 300' ft, W 6' ft, H 3' ft	Earth	40 cu	20,000	89 Labors 8 days	15,575	15,575	
				Concrete	12 cu	98,400	12 Skilled 12 days	3,300		
							93 Labors 93 days	16,275		
				Metal	13 cu	33,800	29 Labors 29 days	5,075	5,075	
21	FC6 Drain step	Construction of drain step 5' ft below the present area		Concrete	1 cu	8,200	1 Skilled 1 days	275	1,400 700 350	
				Earth	2 cu		8 Labors 8 days	1,400		
				Metal	1 cu	2,600	4 Labors 4 days	700		
							2 Labors 2 days	350		
22	FC 2/5 canal below lot No. 290 (paddy)	Drain pipe to drain rain water	L 24' ft, wall on both sides W 2'ft H 3' ft	HP dia.	24 ft	16,800			550 2,800 700 350	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	1 cu	2,600	4 Labors 4 days	700	700 350	
							2 Labors 2 days	350		
23	Culvert below 9 1/4 post (main canal)	Stepped trench to prevent rain water coming in	L 15' ft, W 1' ft - slope of 3 steps to canal lengthing the basin of culvert by 2 feet	Included in rehabilitation plan of Irrigation Department of Main canal						
24	Both sides near 0 1/2 post (main)	Laying a pipe line deeping the canal	L 126' ft - 21 hume pipes	Included in rehabilitation plan of Irrigation Department of Main canal						
25	Beginning of canal B2	Stepped trench to prevent rain water flow - lengthening the basin by 2' ft	L 15' ft, W 1' ft - slope of 3 steps to canal	Concrete	1 cu	8,200	1 Skilled 1 days	275	1,400 700 350	
				Earth	2 cu		8 Labors 8 days	1,400		
				Metal	1 cu	2,600	4 Labors 4 days	700		
26	D2 - FC1 Paddy	Rehabilitate bund by earth filling	L 100' ft, W 3' ft	Earth	10 cu	2,500	22 Labors 22 days	3,850	3,850	
27	FC 1/1 canal second drain	Lowering the step	L 1 1/2' ft W 6" inches about 9 inches	Concrete	1 cu	8,200	1 Skilled 1 days	275	1,400 700 350	
				Earth	2 cu		8 Labors 8 days	1,400		
				Metal	1 cu	2,600	4 Labors 4 days	700		
							2 Labors 2 days	350		
28	Foot path between No. 71 and 72 uplands in D2 canal	Construction of a culvert with basin	L 8' ft, W 6' ft, H 4' ft, Basin length 4' ft H 2' ft	HP dia.	8 ft	5,600			550 2,800 700 350	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	1 cu	2,600	4 Labors 4 days	700	700 350	
							2 Labors 2 days	350		
29	Upland lots 69, 70 of B2 canal - Foot path	Construction of a culvert with basin	L 8' ft, W 6' ft, H 4' ft, Basin length 4' ft H 2' ft	HP dia.	8 ft	5,600			550 2,800 700 350	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	1 cu	2,600	4 Labors 4 days	700	700 350	
							2 Labors 2 days	350		
30	In the sama place (29)	Construction of a drain pipe for rain water	L 24 ft - 1' ft dia. - pipes side walls L 2' ft -W 9" inches H 3' ft	HP dia.	24 ft	16,800			550 2,800 700 350	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	1 cu	2,600	4 Labors 4 days	700	700 350	
							2 Labors 2 days	350		
31	D2 canal FC 1/2	Rehabilitation of canal bund with earth filling both sides about 500' ft	L 500' ft W 12' ft road side W 6'ft other side	Earth	52 cu	13,000	115 Labors 115 days	20,125	20,125	
32	Between FC 16 and FC 17	Augmenting the existing bund and construct a new bund	L 160 ft, W 8' ft, H 1 1/2' new bund 4' ft	Earth	17 cu	4,250	38 Labors 38 days	6,650	6,650	
33 and 35	FC 16 canal Paddy lot Nos. 72 & 73	Provide inlet pipes	L 12' ft, W 2' ft, H 3 1/2' ft (2 pipes)	HP dia.	24 ft	5,040			550 2,800 700 700	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	2 cu	5,200	4 Labors 4 days	700	700 700	
34	FC 3/16 canal	Lowering the step of the drain point	L 15" inches, W 6" inches, H 3" inches	Concrete	1 cu	8,200	1 Skilled 1 days	275	1,400 700 350	
				Earth	2 cu		8 Labors 8 days	1,400		
				Metal	1 cu	2,600	4 Labors 4 days	700		
							2 Labors 2 days	350		
36	FC16 canal	Construction of a concrete wall in front of 7 th drain step	L 10' ft, W 1' ft, H 4' ft	Concrete	2 cu	16,400	2 Skilled 2 days	550	2,800 2,275 350	
				Earth	6 cu		16 Labors 16 days	2,800		
				Metal	1 cu	2,600	13 Labors 13 days	2,275		
							2 Labors 2 days	350		
37	Fc16 canal (Hole)	Repair the broken pipe line and construction of a basin at end of canal	L 24' ft (pipes) Basin L 20' ft, H 3' ft	HP dia.	24 ft	5,040			550 2,800 700 700	
				Concrete	2 cu	16,400	2 Skilled 2 days	550		
				Earth	2 cu		16 Labors 16 days	2,800		
				Metal	2 cu	5,200	4 Labors 4 days	700	700	
							2 Labors 2 days	700		

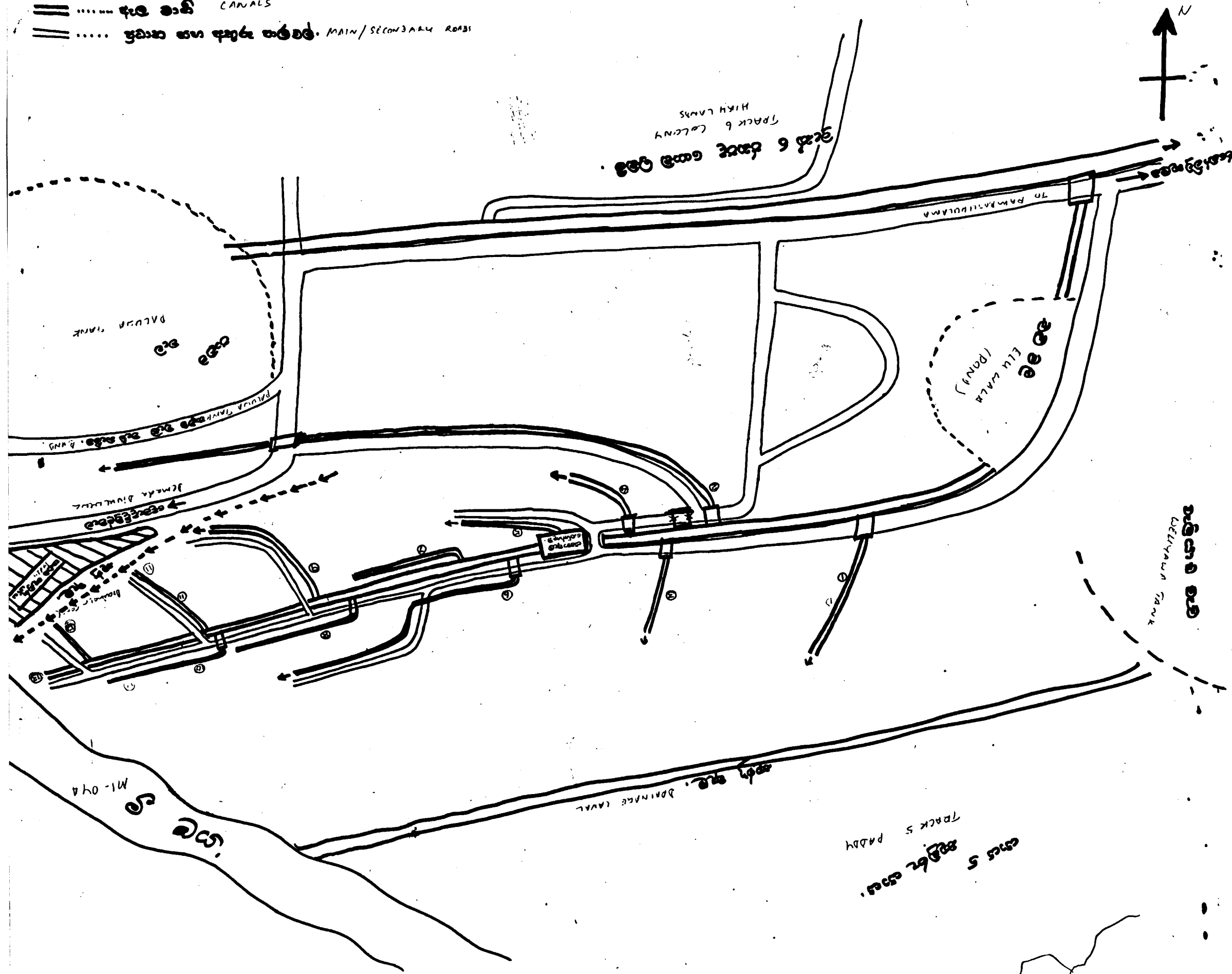
Rehabilitation Plan & Cost Estimation for
Palukadawela Scheme Proposed by Farmers' Organization (2/2)

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 5

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers'
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
38	FC16 canal (same as above place)	Construction of a causeway laying hume pipes for road	L 126' ft, W 10' ft, H 3' ft Hume pipes L 6' ft 2' ft dia. x 2 nos.	HP dia. 6 ft	4,200			
				Concrete 2 cu	16,400	Skilled 2 days	550	
				Earth works 2 cu		Labors 16 days	2,800	2,800
				Metal 1 cu	2,600	Labors 4 days	700	700
			Side wall H 4' ft , W 1' ft L 126 ft	RRM 11 cu	35,200	Skilled 8 days	2,200	
				Earth works 19 cu		Labors 55 days	9,625	9,625
39	FC 1/17 canal	Construction of an inlet pipe to lot no. 53 and a level step	L 3' ft, W 9" inch, H 2 1/2' ft both sides	Metal 2 cu	5,200	Labors 42 days	7,350	7,350
				Earth works 19 cu		Labors 44 days	7,350	7,350
				Concrete 1 cu	8,200	Skilled 1 days	275	
				HP dia. 6 inch 3 ft	630	Labors 8 days	1,400	1,400
			L 8' ft, W 6' ft, H 4' ft basin L 4' ft, W 1' ft, H 4' ft	Earth works 1 cu		Labors 2 days	350	350
				Metal 1 cu	2,600	Labors 2 days	350	350
40	Clear to FC16 canal	Construction of a culvert	L 8' ft, W 6' ft, H 4' ft basin L 4' ft, W 1' ft, H 4' ft	HP dia. 8 ft	5,600	Skilled 2 days	550	
				Concrete 2 cu	16,400	Labors 16 days	2,800	2,800
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	350
41	FC16 from 2nd	Reduce the depth of canal and augment	L 400' ft, W 10' ft	Earth works 41 cu	10,250	Labors 91 days	15,925	15,925
42	D1 & D2 all field canals	Rehabilitation of all canal roads	D1 canal : L 6739'ft, W 18' ft	Earth works 588 cu	294,000	Labors 1305 days	228,375	228,375
				Gravel 392 cu	784,000	Labors 870 days	152,250	152,250
			D1 FC all field canals : L 7995' ft, W 12' ft	Earth works 465 cu	232,500	Labors 1032 days	180,600	180,600
				Gravel 310 cu	620,000	Labors 688 days	120,400	120,400
			D2 canal : L 8203' ft, W 18' ft	Earth works 716 cu	358,000	Labors 1590 days	278,250	278,250
				Gravel 477 cu	954,000	Labors 1059 days	185,325	185,325
			D2 FC all field canals : L 8500' ft, W 12' ft	Earth works 494 cu	247,000	Labors 1097 days	191,975	191,975
				Gravel 330 cu	660,000	Labors 733 days	128,275	128,275
43	FC 3/16 canal	Leveling the pipe line, Re- adjust the pipes	Length 18' ft	HP dia. 6 inch 18 ft	3,780	Skilled 1 days	275	
				Concrete 1 cu	8,200	Labors 8 days	1,400	1,400
				Earth works 1 cu		Labors 2 days	350	350
				Metal 1 cu	2,600	Labors 2 days	350	350
			Length 15" inches, W 4" inches, H 4" inches	Concrete 1 cu	8,200	Skilled 1 days	275	
				Earth works 2 cu		Labors 8 days	1,400	1,400
44	FC 3/16 canal	Lowering the upper step of first water lowering point	Length 15" inches, W 4" inches, H 4" inches	Metal 1 cu	2,600	Labors 4 days	700	700
				Earth works 2 cu		Labors 2 days	350	350
				Concrete 1 cu	8,200	Skilled 1 days	275	
				Earth works 2 cu		Labors 8 days	1,400	1,400
45	FC 6/17 canal	Construction of a culvert	L 10' ft, W 8' ft, H 2' ft	HP dia. 10 ft	3,500	Skilled 2 days	550	
				Concrete 2 cu	16,400	Labors 16 days	2,800	2,800
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	350
			L 3' ft, W 9" inches, H 2 1/2' ft	Concrete 1 cu	8,200	Skilled 1 days	275	
				Earth works 2 cu		Labors 8 days	1,400	1,400
46	Drainage canal to Rambawela (pond)	Construction of a structure to store water (To prevent wash off of canal) From every 25' ft to 75' ft	L 3' ft, W 9" inches, H 2 1/2' ft	Metal 1 cu	2,600	Labors 4 days	700	700
				Earth works 2 cu		Labors 2 days	350	350
				Concrete 1 cu	8,200	Skilled 1 days	275	
				Earth works 2 cu		Labors 8 days	1,400	1,400
47	Connected with map ref no. 46 - drainage canal to above pond	- do -	- do -	Metal 1 cu	2,600	Labors 4 days	700	700
				Earth works 2 cu		Labors 2 days	350	350
				Concrete 1 cu	8,200	Skilled 1 days	275	
				Earth works 2 cu		Labors 8 days	1,400	1,400
Sub-total					5,128,840		1,758,715	1,734,240
Grand-total					6,887,555			

CANALS
 MAIN/SECONDARY ROADS



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

Name of Scheme : Palukadawela

Name of FO, etc. : Tract 6

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	FC1 to FC2	Canal is silted because for a long time silt coming with water is deposited in the bottom of canal.	L 100m W 8' ft, Height 5' ft	Desilting 127 cu	50,800	Labors 282 days	49,350	49,350
2	Elu wewa Tank bund	At present tank bund is washed off and the bathing steps are washed out and broken. New bathing step should be built and to prevent bund washout should construct a rip-rap.	Rip-rap:100 long and 2m wide Bathing step : 3m long and 2m wide	Rip rap 21 cu	63,000	Labors 47 days	8,225	8,225
				Concrete 3 cu	24,600	Skilled 3 days	825	
				Earth works 15 cu		Labors 23 days	4,025	4,025
				Metal 1 cu	2,600	Labors 33 days	5,775	5,775
3	FC5 main road	Must construct a road section of 150m at the end of FC 5 main road	150 meters 12 ft. width	Earth works 143 cu	71,500	Labors 317 days	55,475	55,475
				Gravel 38 cu	76,000	Labors 84 days	14,700	14,700
4	FC5, 1/5 FC road	Must construct the total length of 100m of FC5:1/5 field canal road	100 meters 12 ft. width	Earth works 95 cu	47,500	Labors 211 days	36,925	36,925
				Gravel 25 cu	50,000	Labors 56 days	9,800	9,800
5	From field 111 to Paluwa road - up to field 98	The existing FC road is only up to field 111. From there up to Field 98 there is no road and should construct a new one	125 meters 12 ft. width	Earth works 119 cu	59,500	Labors 264 days	46,200	46,200
				Gravel 32 cu	64,000	Labors 71 days	12,425	12,425
6	FC2	In FC2 must construct anicuts to provide water to field Nos. 98, 97, 95 & 117 (field inlet)	width 4' ft, height 3' ft	HP dia. 6 inch 40 ft	8,400			
				Concrete 4 cu	32,800	Skilled 4 days	1,100	
						Labors 31 days	5,425	5,425
				Earth works 4 cu		Labors 9 days	1,575	1,575
	Sub-total				561,100		253,750	251,825
	Grand-total				814,850			

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

Name of Scheme : Palukadawela

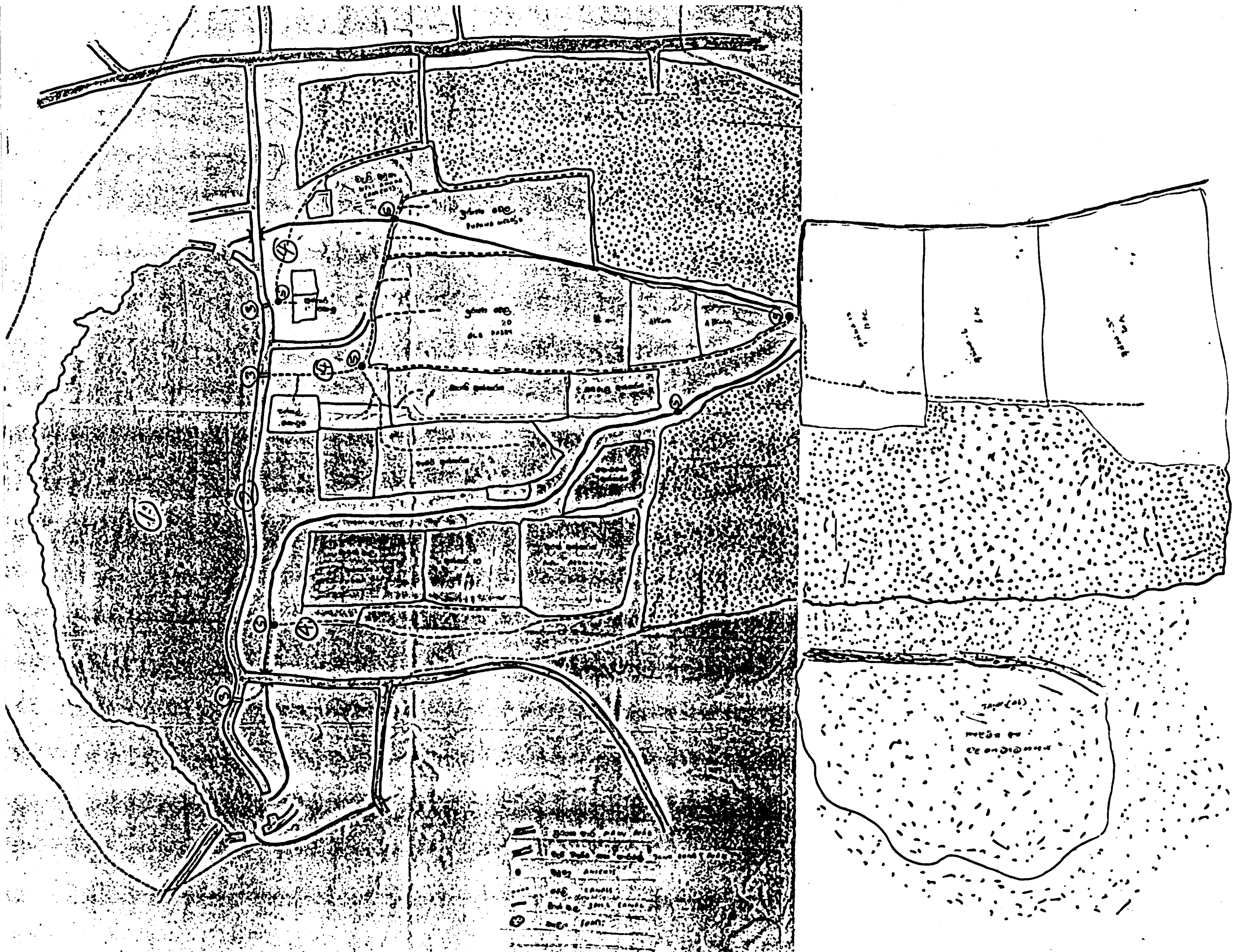
Name of FO, etc. : Puranagama FO

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	Ihalawewa Yaya	Construction of side walls of FC from anicut to paddy field	H 2ft L 50 m	RRM 7 cu Earth works 3 cu Metal 2 cu	22,400 5,200	Skilled 5 days Labors 35 days Labors 7 days Labors 4 days	1,375 6,125 1,225 700	6,125 1,225 700
2	Ihalawewa anicut	Fixing doors to 4 gates of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
3	Ihalagama Yaya spill canal	Filling the spill canal bund. Earth and gravel	L 50 m	Earth works 17 cu	4,250	Labors 38 days	6,650	6,650
4	Ihalawewa yaya	Construction of water blockings to field	L 50 m	Earth works 17 cu	4,250	Labors 38 days	6,650	6,650
5	Gedaragawela anicut	Fixing 4 gates of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
6	Near above anicut	Construction a 40 ft side wall from anicut to paddy area	H 2ft L 40 ft	RRM 2 cu Earth works 6 cu Metal 1 cu	6,400 2,600	Skilled 2 days Labors 10 days Labors 13 days Labors 2 days	550 1,750 2,275 350	1,750 2,275 350
7	Talakola yaya	Fixing 4 gates of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
8	Tibutugolla	Provide a 9" inch dia. Pipe to anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
9	Talakolayaya lower anicut	Re-construction of this anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
10	Alakela anicut	Fixing 2 gates to anicuts		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
11	Gedawagawela yaya	Construction of a causeway across sluice canal		Concrete 5 cu Reinforced bar 708 kg Earth works 30 cu Metal 2 cu	41,000 42,450 5,200	Skilled 5 days Labors 39 days Labors 67 days Labors 4 days	1,375 6,825 11,725 700	6,825 11,725 700
12	Weeradambana anicut	Fixing 5 gate doors of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
13	Weeradambana anicut	Lifting the spill openings		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
14	Weeradambana yaya	Provide water blocks for FC within yaya	L 50 m	Earth works 17 cu	4,250	Labors 38 days	6,650	6,650
15	Ihalawela yaya	Construction of a causeway across spill canal		Concrete 5 cu Reinforced bar 708 kg Earth works 30 cu Metal 2 cu	41,000 42,450 5,200	Skilled 5 days Labors 39 days Labors 67 days Labors 4 days	1,375 6,825 11,725 700	6,825 11,725 700
16	Medawela anicut	Fixing 4 anicut doors		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
17	Medawela yaya	Re-construction of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
18	Medawela yaya	Provision of water blocks to field canal	L 50 m	Included in rehabilitation plan of Irrigation Department of Anicut improvement				
19	Malgahakotuwa anicut	Fixing 2 gates to anicuts		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
20	Malgahakotuwa yaya	Construction of anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
21	Kotuwela anicut	Fixing 4 gates to anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
22	Halmillakotuwa	Fixing 2 gates to anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
23	Halmillakotuwa	Construction of earth bund of 5' ft for Halmiyakotuwa canal	L 50 m	Earth works 17 cu	4,250	Labors 38 days	6,650	6,650
24	Palugaha Kotuwa	Fixing 4 anicut gates						
25	Palugaha Kotuwa	Construction of side walls for canal from anicut length 400 meter	H 2ft L 400 m	RRM 59 cu Earth works 200 cu Metal 13 cu	188,800 33,800	Skilled 44 days Labors 295 days Labors 444 days Labors 29 days	12,100 51,625 77,700 5,075	51,625 77,700 5,075
26	Palugaha Kotuwa	Construction of a causeway below anicut		Concrete 5 cu Reinforced bar 708 kg Earth works 30 cu Metal 2 cu	41,000 42,450 5,200	Skilled 5 days Labors 39 days Labors 67 days Labors 4 days	1,375 6,825 11,725 700	6,825 11,725 700
27	Palugaha Kotuwa	Rehabilitation of drainage canal from Palugahakotuwa	L 200 m	Earth works 106 cu		Labors 235 days	41,125	41,125
28	Palaha Wela	Construction of Pahala Wela		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
29	Karuwalagaha anicut	Fixing 4 anicut gates		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
30	Suranwela anicut	Fixing 2 anicut gates		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
31	Suranwela anicut	Provide a spill towards weehana		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
32	New anicut	Fixing 2 anicut gates		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
33	New anicut	Provide a spill to anicut		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
34	Wagale Amuna (anicut)	Fixing 2 anicut gates		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
35	Weehana yaya	Bridge across canal		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
36	Weehena Anicut	Fixing 5 anicut gates		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
37	Hooniyan Pathkola yaya	Construction of a new anicut and a		Included in rehabilitation plan of Irrigation Department of Anicut improvement				
	Sub-total				542,150		290,450	272,300
	Grand-total				832,600			

Chapter 3

PERIYAKULAMA MEDIUM IRRIGATION SCHEME

- Rehabilitation and Improvement Plan by Farmers -



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 Ekamuthu Farmers' Organisation

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

Name of Scheme : Periyakulama

Name of FO, etc. : Ekamuthu FO

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	Periyakulama Tank	De-silting and remove soil since the tank is heavily silted	About 200 acres	Included in rehabilitation plan of Irrigation Department of Tank rehabilitation				
2	Tank bund	Augment the tank bund, widen the top width and constriction of a tarred road	Length of bund 1 mile	Included in rehabilitation plan of Irrigation Department of Tank rehabilitation				
3	3 sluice	Remove old sluices and replace with new hume pipes and doors	Widening the sluices as follows: Low level sluice - 12" East high level sluice - 9" West high level sluice - 6"	Included in rehabilitation plan of Irrigation Department of Tank rehabilitation				
4	Canal System	Rehabilitation of grown and silted canal system, construction of concrete lined canal system with necessary structures	Concrete lining 6 km of canal system with structures	Included in rehabilitation plan of Irrigation Department of M, D & F canal improvement				
5	Anicuts	Instead of old anicuts (earth) construction of new anicuts.	Construction of concrete walls for all 6 anicuts Total length 150' ft Width 2' ft Height 5' ft	Included in rehabilitation plan of Irrigation Department of M, D & F canal improvement				
Sub-total					0		0	0
Grand-total					0			

Chapter 4

MAHANANNERIYA MEDIUM IRRIGATION SCHEME

- Rehabilitation and Improvement Plan by Farmers -

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

Name of Scheme : Maha Nanneriya
Name of FO, etc. : Ekabadda FO

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	Tank Bund	Rip-rap rehabilitation of tank bund from slabbed section to sluice side Earth filling Gravel filling		Included in rehabilitation plan of Irrigation Department of tank improvement				
2	Tank Spill	Remove old rip-rap concrete slabs and earthfill gravel and concrete slabs		Included in rehabilitation plan of Irrigation Department of tank improvement				
3	Structure of back of sluice	Remove the old structure and construct a new one with a concrete foundation	L 10' ft x 2 sides L 20' ft W 10' ft x 2 sides - W 16' ft L of bottom 10' ft, W 4' ft	Included in rehabilitation plan of Irrigation Department of tank improvement				
3	Irrigation canal	De-silt totally	L 2 3/4 miles W 2 1/2' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
4	Weli amuna (Earth anicut)	Remove old anicut and re-construct with hume pipes	L 18' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
5.1	Earth anicut	Fixing doors to water control bund, fix adjustable doors with concrete posts	L 4' ft x L sections Height - 4' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
5.2	Earth anicut	Filling earth to anicut wall	L 100' ft, W 2 1/2' ft H 1' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
5.3	Main canal	Fixing a new control door. Adjustable with concrete post as in 5.1	L 4' ft, H 4' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
6	Main canal (1st field canal)	Fixing a new door with pipe retaining 2 nd door	L 12' ft, W 2' ft, H 4' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
7.1	Main canal 1-spill	Construction of a 3' ft concrete wall over existing spill and a concrete	L 20' ft, W 1' ft, H 3' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
7.2	Main canal 2,3,4,5 Spill drains & causeways	Raising spill drains by 3" inches and concreting causeways	L 20' ft, W 1' ft, H 3' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
7.3	Main canals	Construction of a new spill drain	L 15' ft, W 1' ft, H 2' ft	Included in rehabilitation plan of Irrigation Department of main canal improvement				
8	Main canal culvert No. 3	New construction with side walls	L 18' ft with 3' ft dia x s hume pipes, construct a new culvert	Included in rehabilitation plan of Irrigation Department of main canal improvement				
	Main canal gate No. 4	Construction of a concrete wall to fix a control gate		Included in rehabilitation plan of Irrigation Department of main canal improvement				
9	Between door 5 & 6	Construction of a new gate		Included in rehabilitation plan of Irrigation Department of main canal improvement				
10	Between door 6 & 7	Fixing a new door & hume pipes (Turnout with gates)		Included in rehabilitation plan of Irrigation Department of main canal improvement				
11	Gate No. 8	Fixing the door and construction of concrete post		Included in rehabilitation plan of Irrigation Department of main canal improvement				
	FC 10	Fixing a new gate to FC 10		Included in rehabilitation plan of Irrigation Department of field canal improvement				
	FC 11	Fixing a new gate to FC 11		Included in rehabilitation plan of Irrigation Department of field canal improvement				
	Sluice No. 5	Replacing sluice No. 5		Included in rehabilitation plan of Irrigation Department of field canal improvement				
	Sluice No. 6	Replacing sluice No. 6		Included in rehabilitation plan of Irrigation Department of field canal improvement				
	Sluice No. 8	Replacing sluice No. 8		Included in rehabilitation plan of Irrigation Department of field canal improvement				
	Ihalagama Road	Earth and gravel filling	L 200' ft, W 10' ft	Earth works 10 cu	5,000	Labors 22 days	3,850	3,850
				Gravel 6 cu	12,000	Labors 13 days	2,275	2,275
10.2	Culvert to Road	New construction	L 10' ft, W 4' ft, H 2' 10"	HP dia. 600mm 20 ft	14,000	Concrete 2 cu	16,400	
				Earth works 10 cu		Skilled 2 days	550	
				Metal 1 cu	2,600	Labors 16 days	2,800	2,800
						Labors 22 days	3,850	3,850
						Labors 2 days	350	350
10.3	Road construction	Earth and gravel filling with side drains	L 200' ft, W 10 ft	Earth works 10 cu	5,000	Labors 22 days	3,850	3,850
				Gravel 6 cu	12,000	Labors 13 days	2,275	2,275
			Drain L 200 ft	Earth works 30 cu		Labors 67 days	11,725	11,725

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.)
10.4	Road construction	Earth and gravel filling with side drains	L 500' ft, W 12 ft	Earth works 29 cu	14,500	Labors 64 days	11,200	11,200
			Drain L 500 ft	Gravel 19 cu	38,000	Labors 42 days	7,350	7,350
				Earth works 76 cu		Labors 169 days	29,575	29,575
10.5	Road construction	Earth and gravel filling with side drains	L 700' ft, W 18' ft	Earth works 61 cu	30,500	Labors 135 days	23,625	23,625
			Drain L 700 ft	Gravel 41 cu	82,000	Labors 91 days	15,925	15,925
				Earth works 107 cu		Labors 238 days	41,650	41,650
10.6	Road construction	Earth and gravel filling with side drains	L 200' ft, W 10 ft	Earth works 10 cu	5,000	Labors 22 days	3,850	3,850
			Drain L 200 ft	Gravel 6 cu	12,000	Labors 13 days	2,275	2,275
				Earth works 30 cu		Labors 67 days	11,725	11,725
10.7	Road construction	Earth and gravel filling with side drains	L 500' ft, W 10' ft	Earth works 24 cu	12,000	Labors 53 days	9,275	9,275
			Drain L 500 ft	Gravel 16 cu	32,000	Labors 36 days	6,300	6,300
				Earth works 76 cu		Labors 169 days	29,575	29,575
	Road to maha akkaraya from Wannu Amunukole Junction	Filling pot holes, construction of causeways with hume pipes, filling earth	Length 2 miles	Earth works 339 cu	169,500	Labors 753 days	131,775	131,775
				Gravel 170 cu	340,000	Labors 377 days	65,975	65,975
			Culvert	HP dia. 600mm 20 ft	14,000			
				Concrete 2 cu	16,400	Skilled 2 days	550	
				Earth works 10 cu		Labors 16 days	2,800	2,800
				Metal 1 cu	2,600	Labors 22 days	3,850	3,850
						Labors 2 days	350	350
	Pansal Amuna (Anicut)	Fixing hume pipes to provide water to Mahawela	3" inches dia. 2 pipes	Included in rehabilitation plan of Irrigation Department of anicut improvement				
12	Karandagaha Amuna (Anicut)	Construction of a spill	L 20' ft, W 2' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
13	Elakirihami's Amuna	Construction of a spill and a spill wall	L 30' ft, H 6' ft L 348' ft, W 4' ft, H 6" inches	Included in rehabilitation plan of Irrigation Department of anicut improvement				
14	Mahaakkarayaya Amuna	Filling holes with earth	L 69' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
		Construction of 3 turnouts						
		Construction of a new wall	L 20' ft, W 2' ft, H 3' ft					
15	Divul Akkarayaya Amuna (Anicut)	Construction of a spill flood water	L 20' ft, W 1 1/2' ft H 4' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
16	Bellanwala Amuna	Construction of a spill flood water	L 10' ft, W 1' ft, H 4' ft	Included in rehabilitation plan of Irrigation Department of anicut improvement				
17	Tank	De-silting the tank	Water spread area 14 sq. miles	Included in rehabilitation plan of Irrigation Department of tank improvement				
	Sub-total				835,500		429,150	428,050
	Grand-total				1,264,650			
	(US\$/ha)				113			