APPENDIX - T

Implementation Plan and Cost Estimate

APPENDIX - T IMPLEMENTATION PLAN AND COST ESTIMATE

Table of Contents

List of Tables

List of Figure

Page

List of Attachment

Page

APPENDIX - T IMPLEMENTATION PLAN AND COST ESTIMATE

Chapter 1 IMPLEMENTATION PLAN

1.1 Project Executing Agencies

The Irrigation Management Division (IMD) of the Ministry of Irrigation and Power (MIP) would be the executing agency of the development programmes. In connection with the project implementation, IMD would co-ordinate all activities of the relevant government agencies and regional organisations.

The Project consists of various programmes, and many government agencies at central and provincial levels will participate in the implementation of these programmes. These agencies concerned are shown below:

Implementing Agencies related to Development Programmes

Development Programmes		Implementing Agencies										
		PDOA/ IPEU	DOI	PED	IMD	DAS	PDAPH	NAQDA	NYSC	NAITA	DS	KARTI
Awareness Programme												●
Strengthening of FOs and community development	Major scheme				●							
	Medium & Minor schemes					●						
Agricultural development (stable crop production and crop diversification)		●										
Income generation	Home garden development	●										
	Livestock development						●					
	Fishery development							●				
	Vocational Training								●	●		
	Small enterprises and business development										●	
Improvement of marketing						●						
Improvement of credit						●						
Rehabilitation and improvement of irrigation facilities	Major & Medium Schemes		●									
	Minor Schemes			●								
Improvement of water management	Major Schemes				●							
	Medium Schemes		●									
	Minor Schemes					●						
Improvement of farm roads			●									
Strengthening of agricultural support services		●				●	●	●				
Research programme for cascade system						●						
Monitoring and evaluation					●							

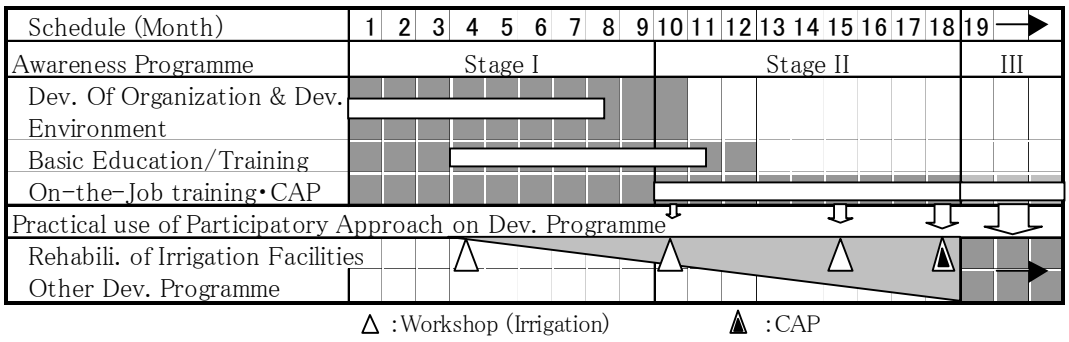
DOA : Department of Agriculture
PDOAs : Provincial Department of Agriculture
IPEU : Inter Provincial Extension Unit
DOI : Department of Irrigation
PED : Provincial Engineering Department
IMD : Irrigation Management Division
DAS : Department of Agrarian Services
PDAPH : Provincial Department of Animal Production & Health
NAQDA : National Aquaculture Development Authority
NYSC : National Youth Service Council
NAITA : National Apprentice & Industrial Training Authority
DS : Divisional Secretariat
KARTI : Kobbekaduwa Agrarian Research and Training Institute

In order to co-ordinate all these agencies at central and provincial levels, it is proposed to set up a Central Project Co-ordination Committee (CPCC) and Provincial Project Co-ordination Committee (PPCC) (Figure T.1.1). Under CPCC, the Project Management Unit (PMU) would be established at the project site, and would have direct responsibility for the implementation of the development programmes. In order to manage the implementation of the development programmes effectively, PMU would have the following 7 sub-units: i) administration, ii) agricultural supporting, iii) construction, iv) O&M of irrigation schemes, v) income generation, vi) farmers' supporting/credit, vii) monitoring and evaluation (Figure T.1.2).

1.2 Awareness Programme

The project is commenced with the awareness programme for both staff of the government agencies as well as the farmers. The programmes are followed by the rehabilitation and improvement and the farmers' supporting programme. The implementation schedule of the awareness programme is shown below. Further, it is proposed that an NGO, that has much experience in the grass-root level activities, will be involved in the awareness programmes.

Process of the Awareness Programme and Relations with Dev. Programme



1.3 Implementation Programme of Rehabilitation and Improvement Works for Irrigation Infrastructures

1.3.1 Basic Considerations

Mechanised construction methods will be introduced principally for earthworks and major concrete works. Adopting the beneficiaries' participatory approach, local farmers should be employed as much as possible for labour work, such as, small earthworks and concrete lining.

Consulting engineers should be employed to assist the PMU as well as other agencies concerned in the preparation of detailed design and tender documents, and in tendering and supervision of the construction works.

1.3.2 Construction plan

(1) Construction period

The schedule consists of the survey and design, tendering, and construction as follows:

Implementation Period of Irrigation Facilities Rehabilitation

Name of Scheme(s)	Survey, Investigation, Design and Tendering	Construction
Nachchaduwa	2 years	3 years
Palukadawela	2 years	2 years
Periyakulama	1 year	1 year
Maha Nanneriya	1 year	1 year
Maha Nanneriya Minor Schemes	1 year	1 year

(2) Construction plan

1) Tanks and main canals and related structures

Rehabilitation or improvement of the tanks will be carried out mainly during the dry season, when the tank water is the least. All major works will be completed by the end of the dry season.

Rehabilitation or improvement of canals, roads, and related facilities for all the schemes will be carried out mainly during the dry season. For all the schemes, the rehabilitation work should be carried out so as not to disturb the current irrigation water supply, as much as possible, or if the construction work has to disturb the current water supply, the disturbance period should be shortened as much as possible.

2) D- and F-canals

The government agencies, such as ID and PED, will make a contract with a FO for rehabilitation and improvement of D- and F-canals. The work will be carried out with the instructions of government agencies.

1.4 Procurement Plan

The PMU will be responsible for procurement of all goods and services under the Project.

The civil works under irrigation infrastructure and institutional support components are numerous, simple in nature, labour intensive and dispersed widely over the area. The civil works, thus, will be carried out by prequalified contractors selected under local competitive bidding (LCB) procedure. The contract award will be made by PMU or the government agencies, depending on the contract amounts.

In the PCM workshop sessions, it is observed that the farmers are anxious to rehabilitate the D and F canals by themselves. It is expected that the farmers' participation in the rehabilitation and improvement works of irrigation facilities could lead to enhance their ownership to the facilities. Therefore, evaluating the capacity of FOs based on the action plan prepared the farmers, the works are entrusted the farmers as much as possible.

Procurement for Rehabilitation of Irrigation Facilities

Name of Scheme(s)	Tank	Main Canal	D- & F-canals
Major Schemes	Contractor	Contractor	Farmers by contract
Medium Schemes	Contractor	Contractor	Farmers by contract
Minor Schemes	Contractor	Farmers by contract	Farmers by contract

A 10% of the total construction cost will be contributed by a Farmers' Organisation, as the system has been applied in the previous foreign-assisted projects In addition, to encourage maximum beneficiary participation, certain civil works, such as rehabilitation of D- and F-canals, will be contractually and directly assigned for execution by capable FOs provided that (i) the FO has the capability to carry out the works; (ii) the work is located in the scheme benefiting the FO; and (iii) the FO agrees to proceed the proposed rehabilitation plan and to contribute a 10% of total construction cost.

Each supply contract for equipment, vehicle and materials will be awarded on the basis of international competitive bidding (ICB), LCB, or direct purchasing, depending the procurement cost. The awareness and training programme will be entrusted to a government organisation concerned or external institutes.

1.5 Overall Implementation Plan

The Project consists of five major items: (i) mobilisation of PMU, (ii) awareness programme / training programme, (iii) implementation of development programmes, (iv) monitoring and evaluation, and (v) follow-up programme. The period required for implementation of these works is estimated as follows, based on their work volumes and referring to the relevant on-going projects.

Implementation Period for Development Components

Major Project Works			Period (Years)
1. Mobilization of PMU (including CPCC & PPCC)			3 (months)
2. Awareness Programme			1.5
3. Implementation of the Development Programmes			
	1) Strengthening of FO		3-5
	2) Rehabilitation and improvement of irrigation facilities and farm roads	One major scheme	
		- Survey, design & tendering	2
		- Construction and supervision	2-3
		One medium or minor scheme	
		- Survey, design & tendering	1
		- Construction and supervision	1
	3) Strengthening of agricultural support facilities (farmer centre, etc.)		1-2
	4) Improvement of water management and agricultural activities		2-5
4. Monitoring and Evaluation (including base line survey, bench mark survey, work-shop with farmers, PCM, monitoring of environment)			5-7
5. Follow-up Programme			0.5-1

Schemes	Duration (Year)
Nachchaduwa Major Scheme	7
Palukadawela Major Irrigation Scheme	6
Periyakulama Medium Irrigation Scheme	5
Mahananneriya Medium Scheme	5
Mahananneriya Minor Schemes (Cascade)	5

Chapter 2 COST ESTIMATE

2.1 Basic Consideration

The initial investment costs for the Project are estimated per each development programme as shown below. It is noted that costs for works to be covered by the normal activities of the government are excluded from the project costs.

Categories of Initial Investment Cost

Development Programme	Hardware		Software				Remarks
	Rehabilitation / improvement	Supporting facilities equipment	Awareness / training	PMU	Engineering	Loan funds	
I. Development Programme							
1. Strengthening farmers' organisation							
1) Awareness programme and training programme for FO leader	-	-	●	-	●	-	Awareness programme is carried out for both government staff and farmers
2) Establishment of multi function FO	-	-	-	-	-	-	Activities by FOs under regular guidance of ASC. The programme is achieved through the activities of items 3 4)
3) Implementation of income generation and social services	-	-	-	-	-	-	
4) Construction of farmer centre	-	●	-	-	●	-	
2. Supplying irrigation water							
1) Rehabilitation / improvement of irrigation facilities and farm roads	●	-	●	-	●	-	Training programme for both government staff and farmers
2) Improvement of water management	-	-	●	-	●	-	
3) Strengthening of O&M of irrigation facilities			●	-	●	-	
3. Improvement of agricultural activities							
1) Promotion of crop diversification and improvement of yield	-	-	-	-	-	-	Activities by FOs. The programme is achieved through the activities of items 3. 2), 3) and 4)
2) Strengthening of agricultural extension services	-	-	●	-	●	-	Establishment of demonstration farm and farmers' training, etc.
3) Improvement of marketing of farm input and output	-	-	-	-	-	-	Activities by FOs. The programme is achieved through the activities of items 1. 1)
4) Improvement of access to credit services	-	-	-	-	-	●	Activities by FOs. The programme is achieved through the activities of items 1. 1)
5) Forestation / wild elephant	-	-	-	-	-	-	Activities by FOs under regular guidance of ASC
4. Strengthening of farmer supporting system							
1) Strengthening of implementing agencies	-	●	●	-	●	-	Training programme for government staff.
2) Strengthening of supporting system for farmers and FOs	-	●	●	-	●	-	Rehabilitation / improvement of ASC, institutes for agricultural research and extension with provision of training equipment
3) Supporting programme for income generation	-	●	-	-	●	-	
II. Mobilisation of PMU and administration	-	●	-	●	-	-	Costs for administration , monitoring & evaluation, and environmental monitoring, etc.

Note: ● Investments for the Project

The basic condition of the cost estimates are as follows:

a) Exchange rates used for the estimate are US$ = 71Rs as of July 1999.
b) 12.5% of GST is considered.

2.2 Cost Estimate for Each Category

2.2.1 Rehabilitation and Improvement Costs of Irrigation Facilities and Farm Roads

The rehabilitation and improvement cost of irrigation facilities including farm roads for respective schemes is estimated on the basis of the following conditions, mainly for economic evaluation of each scheme.

a) Direct cost for civil works, such as tanks, main canals, and parts of D-canals in the major and medium schemes, are estimated by the staff of ID,
b) Direct cost for civil works are estimated by "Unit Rates for Construction works 1999 MIP" and "Rate Analysis for 1999 ID Kurunegala" (see Table T.2.1),
c) Overheads and profit factor is estimated at 26% of direct cost in major and minor schemes, and as 21% of direct cost in minor schemes, and
d) Physical contingencies for major, medium, and minor schemes are 15%, 10%, and 5%, respectively.

The rehabilitation and improvement costs for the respective schemes were estimated as follow, and details are shown in Table T.2.2.

Rehabilitation and Improvement Costs of Irrigation Facilities and Farm Roads
(Excluding Price Contingencies and G.S.T.)

Scheme	Area (ha)	Direct cost (Rs. 1,000)	Price Contingency (Rs. 1,000)	Total (Rs. 1,000)	Cost per ha (Rs. /ha)	Cost per ha (US$/ha)
Nachchaduwa major scheme	2,540	343,600	51,500	395,100	155,600	2,190
Palukadawela major schemes	956	51,000	7,700	58,700	61,400	860
Periyakulama medium scheme	91	16,200	1,600	17,800	195,600	2,750
Mahananneriya medium scheme	158	12,800	1,200	14,000	88,600	1,250
Mahananneriya minor schemes	117	14,500	700	15,200	129,900	1,830
Total	3,862	438,100	62,700	500,800	129,700	1,830

Remarks : Exchange rate : US$ 1.00 = Rs. 71, GST : Goods and Services Tax

The details of the cost for each scheme are shown in Tables T.2.3 to T.2.7 and Attachments.

2.2.2 Costs for Rehabilitation and Improvement of Supporting Facilities and Provision of Equipment

The Project would be commenced with establishment of the PMU. Further, the Project provides various buildings, vehicles and equipment for strengthening of agricultural support system including agricultural extension, income generation, etc. Their capital costs were estimated as follows, and details are shown in Table T.2.8.

Costs for rehabilitation and improvement of supporting facilities and provision of equipment (Excluding Price Contingencies and G.S.T.)

(Unit : Rs. 1,000)

Items	Amount	Description
1. Mobilisation of PMU	29,200	Vehicles and Office equipment
2. Construction of farmer Centre	35,640	27Nos., Floor space 140 m^2/no.
3. Strengthening of Agricultural Support Services		
1) Institutional Strengthening Programme		
- Logistic Support Strengthening Programme	700	Motor cycle x 3 and computer x 3 for IPEU, PODA/NCP & PODA/NWP
- Upgrading of ISTI, Maha Illuppallama	9,900	Video camera (VHS) x 1, Video deck (VCR) x 2, TV x 1, Overhead projector & screen x 2, Printing machine x 1, Copy machine x 1, Bus (60 seats) x 1.
2) Strengthening of Farmers / FOs Support Facilities		
- ASC Strengthening Programme	300	Motor cycle x 3、Renovation of building, Provision of Office / Training Equipment
- Strengthening of DAS	2,400	Vehicle : Anuradhapura DAS x 1、Kurunegala DAS x 1
3) Support programme for Income Generation		
- Upgrading of Seed Farm, Galgamuwa	11,150	Potting Shed x 2, Office x 1, Shade house x 2, Water storage tank x 1, Pumping station x 1, Irrigation System x 1, 4 t Truck x 1, Office / Training Equipment
- Upgrading of IFTC, Nikawerativa	11,610	Training building(120 m^2) x 1, Hostel x 1, Manager quarter x 1, Dairy shed x 1, Dairy laboratory x 1, Mini bus x 1
- Strengthening of PDAPH	200	Provision of motor cycles
- Strengthening of Aqua-culture Extension Centre	3,250	Extension centre building x 1, Training equipment, Facilities for extension centre, office equipment.
4) Strengthening of RPM Office	200	Provision of motor cycles
4. Physical Contingency (5%)	5,230	
Total	109,780	

2.2.3 Costs for Awareness and Training Programme

Costs for awareness and training programme for both the government staff and farmers are presented in the following table (see TableT.2.9 in details).

Costs for awareness and training programme (Excluding Price Contingency and G.S.T.)

(Unit : Rs. 1,000)

Item	Amount	Description
1. Strengthening of Farmers' Organisations		
1) Awareness programme	16,000	Costs for both government staff and farmers
2) Training of FO's leaders	2,880	448M/M for facilitators, vehicle rental costs
2. Supplying irrigation water in accordance with schedule		
1) Training for construction supervision	870	Costs for both government staff and farmers
2) Training for water management	700	Costs for both government staff and farmers
3) Training for operation and maintenance	700	Costs for both government staff and farmers
3. Improvement of agricultural activities		
1) Strengthening of agricultural extension services		
- Field programme	11,430	Inputs (50% of necessary quantity), texts, and transportation costs for farmers
- Farmer training programme	1,650	Texts, and transportation costs for farmers
- Seed production programme	1,300	140 ha for paddy and 45 ha for OFC.
4. Strengthening of agricultural support programme		
1) Institutional strengtening programme for agricultural extension		
- Staff training programme	460	Participants: 25persons/course, 11 courses
- Institutional strengthening	7,600	Strengthening of co-ordination between farmers, extension staff, and researching staff
2) Strengthening of farmers / FOs support institutes		
- Induction & refresher training of DO/ASC	460	Participants: 25persons/course, 11 courses
- Induction & refresher training of animator	460	Participants: 25persons/course, 11 courses
5. Follow-up programme	1,950	10% of items 1. 2)、2., and 3.
6. Physical contingency(5%)	2,320	
Total	48,780	

2.2.4 Costs for Administration of PMU, Engineering and Capital of Loan

Costs for administration of PMU, capital of loan are estimated as follows: (see Table T.2.10 for details)

Costs for administration of PMU, capital of loan (Excluding Price Contingency and G.S.T.)

(Unit : Rs. 1000)

Item	Amount	Description
1. Administration Cost of PMU	56,280	Personnel cost, consumables, monitoring and survey cost
2. Capital of Loan	20,000	Capital for revolving loan
3. Contingencies (5%)	3,810	
Total	80,090	

The estimated administration costs of PMU are Rs. 56.3 million for 7 years. In connection with the improvement of access to credit, the group loan, and revolving loan, and mutual aid credit would be proposed. The loan capital will be arranged as described below. The capital of the revolving loan would be arranged by the Project.

	Arrangement of Capital of Loan
Group loan (Cultivation loan)	Finance from banks. The loan arrangement will be carried out by PMU.
Revolving loan (mid-term loan)	The capital of the loan is arranged by farmers themselves. PMU arrange the loan capital and give farmers credit if the farmers have insufficient capital.
Mutual aid credit system	Finance from Women Bank

The engineering works including survey, planning, detailed design, etc. were estimated at 10% of rehabilitation and improvement, capital for project management and strengthening of support system, and awareness and training programmes.

2.3 Summary of Costs

2.3.1 Total Project Cost

The total project costs including all irrigation schemes were estimated to be Rs.805 million, excluding price escalation. The costs per hectare was estimated at Rs.208,400 (US$ 2,950), and the rehabilitation and improvement costs of irrigation facilities and farm roads account for 62% of total costs.

Total Project Costs (Excluding Price Contingency and G.S.T.)

(Unit : Rs. Million)

		Commanding Area (ha)	Rehabilitation Cost*1	Capital for Support Facilities *1	Awareness and Training Pro-grammes *1	PMU Admini-stration and Loan*1	Engi-neering Cost*1	Total
Nachchaduwa major scheme		2,540	395.1	67.0	27.5	51.4	49.1	590.1
Palukadawela major schemes		956	58.7	27.6	12.2	19.9	9.8	128.2
Periyakulama medium scheme		91	17.9	1.7	1.6	1.9	2.1	25.2
Mahananneriya medium scheme		158	14.0	4.4	2.3	4.0	2.0	26.7
Mahananneriya minor schemes		117	15.2	9.1	5.2	2.9	2.8	35.2
Total		3,862	500.9	109.8	48.8	80.1	65.8	805.4
Proportional Extent			62%	14%	6%	10%	8%	100%
Cost per Hectare	(Rs./ha)		129,700	28,400	12,600	20,700	17,000	208,400
	(US$/ha)		1,830	400	180	300	240	2,950

Remarks : *1 Including physical contingency Exchange Rate : US$1.0 = Rs. 71

2.3.2 Project Costs per Implementing Agency

Many government agencies at central and provincial levels will participate in the implementation of the Project. The project costs per implementing agency are as follows.

Project Costs per Implementing Agency (Excluding Price Contingency and G.S.T.)

(Unit : Rs. Million)

Implementing Agency	Rehabilitation Cost	Capital for Support Facilities	Awareness and Training Programmes	PMU Administration and Loan	Engineer-ing Cost	Total	%
IPEU	-	0.3	14.2	-	-	14.5	1.8%
PDOA / NCP	-	0.1	0.9	-	-	1.0	0.1%
PDOA / NWP	-	22.4	8.0	-	-	30.4	3.8%
DOI	485.7	-	2.3	-	-	488.0	60.6%
PED / NCP	-	-	-	-	-	0.0	0.0%
PED / NWP	15.2	-	0.1	-	-	15.3	1.9%
IMD	-	68.3	4.8	80.1	65.9	219.1	27.2%
DAS	-	5.4	1.7	-	-	7.1	0.9%
PDAPH / NCP	-	0.1	-	-	-	0.1	0.0%
PDAPH / NWP	-	9.8	-	-	-	9.8	1.2%
NAQDA	-	3.4	-	-	-	3.4	0.4%
KARTI	-	-	16.7	-	-	16.7	2.1%
Total	500.9	109.8	48.7	80.1	65.9	805.4	100.0%

DOA : Department of Agriculture
PDOAs : Provincial Department of Agriculture
IPEU : Inter Provincial Extension Unit
DOI : Department of Irrigation
PED : Provincial Engineering Department
IMD : Irrigation Management Division
DAS : Department of Agrarian Services
PDAPH : Provincial Department of Animal Production & Health
NAQDA : National Aquaculture Development Authority
NYSC : National Youth Service Council
NAITA : National Apprentice & Industrial Training Authority
DS : Divisional Secretariat
KARTI : Kobbekaduwa Agrarian Research and Training Institute

Note : * The costs for works to be covered by the normal activities of the government are excluded from the project costs.

2.3.3 Annual Disbursement Costs

The annual disbursement programme of the Project costs is presented below. The detail of the cost per each irrigation scheme is shown in Table T.3.1.

Annual Disbursement Costs

(Unit : Rs. Million)

	Year							Total
	2002	2003	2004	2005	2006	2007	2008	
Rehabilitation Cost	-	-	224.5	185.5	90.9	-	-	500.9
Capital for Support Facilities	41.3	31.1	27.7	9.7	-	-	-	109.8
Awareness and Training Programmes	12.8	10.5	7.7	6.8	6.2	3.4	1.3	48.7
PMU Administration and Loan	8.4	8.4	14.8	14.2	14.2	11.6	8.5	80.1
Engineering Cost *	13.2	13.2	13.2	6.6	6.6	6.6	6.5	65.9
Total	75.7	63.2	287.9	222.8	117.9	21.6	16.3	805.4
Price contingency	15.9	20.9	133.6	136.0	91.0	20.5	18.7	436.6
GST (12.5%)	11.4	10.5	52.7	44.9	26.1	5.3	4.4	155.3
Grand Total	103.0	94.6	474.2	403.7	235.0	47.4	39.4	1,397.3

Remarks : GST : Goods and Services Tax

The price contingency of the Project is set at 10% per year based on the average of the escalation rate of the retail price in Colombo in last 5 years (1994 – 1998).1.

2.4 O&M and Replacement Cost

Annual Operation and maintenance costs for irrigation schemes are estimated as follows:

Annual O&M Costs

(Unit : Rs.)

	Total	Government	Farmers
Major schemes	2,000	1,000	1,000
Medium schemes	1,500	-	1,500
Minor schemes	1,500	-	1,500

Among the costs shared by the farmers, the amount of Rs. 500 is allocated to an allowance for gate operators, named by salaris. The remaining costs are used for the maintenance of irrigation facilities. The maintenance costs are composed of material and labour costs. They are in the ratio of 3 : 7. The estimated O&M costs of supporting facilities and equipment are 1 % of the investment costs.

The replacement cost are estimated, assuming that the steel gate of irrigation facilities, O&M equipment, vehicle, and equipment for extension and training are replaced in every 10 years, and buildings in every 25 years.

1 Annual Report 1996 and 1998, Central Bank of Sri Lanka.

TABLES

Table T 2.1 Unit Cost Used for Rehabilitation Works

Item	Description	unit	Cost (Rs.)	Source
1. Materials				
1) Cement		bag	295.00	1
2) Sand		cu.	550.00	1
3) Metal	1 1/2"	cu.	2,600.00	1
4) Rubble	6" - 9"	cu.	1,000.00	1
5) Plank	1"	sq.	1,800.00	1
6) Steel T/S		Lb.	17.25	1
7) RCC Pipes	12" dia.	ft	350.00	2, (23.3)
	15" dia.	ft	410.00	2, (23.4)
	18" dia.	ft	550.00	2, (23.5)
	24" dia.	ft	700.00	2, (23.6)
8) Cast Iron Gate	12" dia.	each	11,500.00	2, (21.2)
	18" dia.	each	30,000.00	2, (21.4)
	24" dia.	each	40,000.00	2, (21.5)
	30" dia.	each	60,000.00	2, (21.6)
2. Labor				
1) Unskilled		day	175.00	1
2) Skilled		day	275.00	1
3. Civil Works				
1) Concrete Works (1:3:6)				
Materials	cement, sand, metal, water, form		8,200.00	
Labour	@7.75 unskilled, @1.00 skilled		1,631.25	
Total		cu.	9,831.25	1, (18)
2) Rubble Masonry				
Materials	cement, sand, rubble		3,200.00	
Labour	@5.00 unskilled, @0.75 skilled		1,081.25	
Total		cu.	4,281.25	1, (24)
3) Plastering (1/2" thickness, 1:3)				
Materials	cement, sand		350.00	
Labour	@1.00 unskilled, @1.00 skilled		450.00	
Total		cu.	800.00	1, (25)
4) Earth Works (Excavation & compaction)				
Labour	@2.22 unskilled	cu.	388.50	1, (11)
5) Desilting		cu.	400.00	2, (25.1)
6) Weeding		sq.	7.27	2, (25.2)

bag : 50 kg
cu. : 100 cubic feet
sq. : 100 square feet
ft. : 1 feet
Lb. : 1 pound
Source 1 : Unit rates for Construction Works, 1999, Kurunegala, Irrigation Departm
Source 2 : Unit rates for construction works, 1999, Rates Committee, MIP, Colombo

Table T 2.2 Reabilitation and Improvement Cost for Irrigation Facilities and Farm Roads

Major and Medium Schemes (Unit : Rs. 1000)

	Major Schemes		Medium Schemes	
	Nachchaduwa	Palukadawela	Periyakulama	Mahananneriya
Tank	10,750	2,118	9,484	2,180
Feeder Canal	16,200	825	-	-
Main canals	72,038	9,416	4,726	3,503
D-canals	91,867	5,173	2,574	-
F-canals	81,808	17,627	2,216	-
Anicuts	-	5,350	-	3,600
Roads	-	-	-	1,264
Sub-total	272,663	40,509	19,000	10,547
Overhead & Profit	70,892	10,532	3,990	2,215
Sub-total	343,555	51,041	22,990	12,762
Physical Contingency	34,356	5,104	2,299	1,276
Total	377,911	56,145	25,289	14,038

Minor Schemes (Unit : Rs. 1000)

	Minor Schemes						
	Kallan-chiya	Arthi-kulama	Palumai-lewa	Ihalagama	Tambare	Ihala-nanneriya	Total
Tank	1,586	1,506	1,495		2,663	1,663	8,913
Canal system	989	227	495		293	243	2,247
Feeder Canal	96	-	-		-	-	96
Roads	-	-	946		-	-	946
Sub-total	2,671	1,733	2,936	4,002	2,956	1,906	16,204
Overhead & Profit	454	294	499	680	502	324	2,753
Sub-total	3,125	2,027	3,435	4,682	3,458	2,230	18,957
Physical Contingency	313	203	344	468	346	223	1,896
Total	3,438	2,230	3,779	5,150	3,804	2,453	20,853

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (1/9)

Classification	Item	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
1) Civil Work					
	a) Tank		1 L.S.	10,750,000	
	b) Kalawewa-Tissawewa-Yoda Ela (Feeder Canal)		1 L.S.	16,200,000	
	c) High Level Main Canal		1 L.S.	47,128,000	
	d) High Level Distributary Canal (managed by ID)		1 L.S.	57,256,000	
	e) High Level Distributary/Field Canal (managed by FO)		1 L.S.	38,864,000	
	f) Low Level Main Canal		1 L.S.	24,910,000	
	g) Low Level Distributary Canal (managed by ID)		1 L.S.	34,611,000	
	h) Low Level Distributary/Field Canal (managed by FO)		1 L.S.	42,944,000	
	j) Total Cost of Civil Work			272,663,000	
		Pro-rate		1,512	US$/ha
2) Overhead & Profit				70,892,000	26% of 1)
3) GST				42,944,000	12.5% of 1) and 2)
4) Total of Basic Cost				386,499,000	1) +2) + 3)

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (2/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Tank	Bund	Earth works in tank bund where necessary	1	L.S.	200,000	
		Strip turfing to newly filled earth	1	L.S.	50,000	
		Gravelling along tank bund	1	L.S.	300,000	
		Providing new rip rap	1	L.S.	500,000	
		Construction of toe filler	280	m	1,500,000	
	Sluice	Repair to existing sluice	1	L.S.	300,000	
		Providing gabion walls in down stream of sluice	1	L.S.	1,000,000	
	Spillway	Repair to spillway	1	L.S.	500,000	
	Others	Improvements to tank bund access road	1	L.S.	1,000,000	
		Construction of retaining wall in bund road	1	L.S.	300,000	
		Improvement to foot bridge	1	L.S.	100,000	
	Service tanks	Improvement of service tank of 11 nos.	11	nos.	5,000,000	
Tank Total					10,750,000	
Feeder canal	Structure	Retaining wall	1	L.S.	9,200,000	
		Measuring device & regulator	3	nos.	450,000	
		Culvert, bridge & crossing	4	nos.	1,800,000	
		Other structure	1	L.S.	550,000	
	Earth works	Desilting, etc.	10,500	m	4,200,000	
Feeder canal Total					16,200,000	
High Level Main	Structure	Masonry wall (canal lining)	3,976	m	17,732,000	
		Bathing step	16	nos.	440,000	
		Bridge	23	nos.	7,360,000	
		Water control device	31	nos.	15,095,000	
		Other facilities	3	nos.	185,000	
		Sub-total			40,812,000	
	Earth works	Back fill, desilting, etc.	4,476	m	3,936,000	
	Road	Graveling of canal road	15,256	m	2,380,000	
	Total				47,128,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (3/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Low Level Main	Structure	Masonry wall and other lining	3,197	m	7,969,000	
		Bathing step	4	nos.	180,000	
		Bridge	80	nos.	10,834,000	
		Water control device	21	nos.	1,192,000	
		Crossing culvert	8	nos.	145,000	
		Other facilities	1	nos.	90,000	
		Sub-total			20,410,000	
	Earth works	Desilting, etc.	10,500	m	4,000,000	
	Road	Graveling of canal road	10,500	m	500,000	
	Total				24,910,000	
High Level D4-canal	Structure	Concrete lining	519	m	2,461,185	
	Earth works	Earth works for canal bund forming	795	m	246,159	
	Road	Gravelling	795	m	40,330	
High Level D5-canal	Structure	Concrete lining	83	m	344,450	
	Earth works	Earth filling	83	m	10,000	
High Level D7-canal	Structure	Concrete lining	1,481	m	7,628,695	
	Earth works	Earth works for canal bund forming	267	m	104,490	
	Road	Gravelling	376	m	25,345	
High Level D11-canal	Structure	Concrete lining	90	m	370,800	
	Earth works	Earth works for canal bund forming	154	m	10,500	
High Level D12-canal	Structure	Concrete lining	323	m	1,328,700	
	Earth works	Earth works for canal bund forming	176	m	25,500	
High Level D15-canal	Structure	Masonry wall for canal lining	27	m	81,000	
		Turnout	2	nos.	30,000	
	Earth works	Earth works for masonry wall	27	m	14,000	
High Level D17-canal	Structure	Masonry wall for canal lining	21	m	20,000	
		Turnout	2	nos.	30,000	
	Earth works	Earth works for masonry wall	21	m	7,000	
High Level D19-canal	Structure	Masonry wall for canal lining	260	m	700,000	
		Drop structure	4	nos.	27,000	
		Turnout structure	3	nos.	80,000	
		Other facilities	1	L.S.	18,000	
	Earth works	Earth works for masonry wall	260	m	75,000	
	Road	Gravelling	825	m	150,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (4/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
High Level D21-canal	Structure	Masonry wall for canal lining	700	m	2,110,000	
		Drop structure	6	nos.	54,000	
		Turnout structure	5	nos.	130,000	
		Culvert	1	no.	6,000	
	Earth works	Earth works for masonry wall	700	m	85,000	
	Road	Gravelling	700	m	125,000	
High Level D26-canal	Structure	Masonry wall for canal lining	2,025	m	8,814,000	
		Drop structure	17	nos.	128,000	
		Turnout structure	10	nos.	218,000	
		Culvert	2	no.	20,000	
		Other facilities	1	L.S.	70,000	
	Earth works	Earth works for masonry wall	2,025	m	450,000	
	Road	Gravelling	2,025	m	350,000	
High Level D27-canal	Structure	Masonry wall for canal lining	1,961	m	8,512,500	
		Drop structure	8	nos.	35,000	
		Turnout (including pipe outlet & regulator)	13	nos.	162,500	
		Culvert	1	no.	15,000	
	Earth works	Earth works for masonry wall	1,961	m	148,000	
	Road	Gravelling	1,961	m	325,000	
High Level D35-canal	Structure	Masonry wall for canal lining	2,698	m	10,800,000	
		Drop structure	16	nos.	145,000	
		Turnout	4	nos.	65,000	
		Culvert, crossing & bridge	6	no.	65,000	
		Other facilities	1	L.S.	25,000	
	Earth works	Earth works for masonry wall	2,698	m	320,000	
	Road	Gravelling & filling pot	2,422	m	500,000	
High Level D36-canal	Structure	Masonry wall for canal lining	1,661	m	5,700,000	
		Drop structure	5	nos.	42,000	
		Turnout & pipe outlet	14	nos.	85,000	
		Culvert, crossing & bridge	2	no.	13,000	
		Other facilities	1	L.S.	10,000	
	Earth works	Earth works for masonry wall	1,661	m	325,000	
	Road	Gravelling & filling pot	1,661	m	175,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (5/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
High Level D36A-canal	Structure	Masonry wall for canal lining	631	m	3,118,000	
		Drop structure	3	nos.	13,000	
		Turnout & pipe outlet	7	nos.	50,000	
		Culvert, crossing & bridge	1	no.	4,000	
		Other facilities	1	L.S.	15,000	
	Earth works	Earth works for masonry wall	631	m	100,000	
	Road	Gravelling & filling pot	631	m	100,000	
High Level D-canal Total					57,256,000	
Low Level D1-canal	Structure	Rectangular canal section	820	m	2,916,000	
		Turnout & pipe outlet	7	nos.	38,000	
	Earth works	Earth works for rectangular canal section	820	m	84,000	
	Road	Gravelling	810	m	90,000	
Low Level D1A-canal	Structure	Rectangular canal section	537	m	1,933,200	
		Drop structure	1	nos.	9,500	
		Turnout & pipe outlet	1	nos.	2,000	
		Culvert & crossing	2	nos.	42,000	
	Earth works	Earth works for rectangular canal section	537	m	140,000	
	Road	Gravelling	537	m	57,938	
Low Level D2canal	Structure	Trapezoidal canal section	465	m	1,674,000	
		Turnout, pipe outlet & regulator	5	nos.	48,500	
		Culvert & crossing (tractor crossing)	1	nos.	40,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
	Road	Gravelling	475	m	40,050	
Low Level D3A-canal	Structure	Trapezoidal canal section	13	m	46,800	
		Turnout & pipe outlet	1	nos.	2,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
	Road	Gravelling	15	m	1,350	
Low Level D4-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	1,235	m	4,463,560	
		Drop structure	1	nos.	20,000	
		Turnout, pipe outlet & regulator	9	nos.	150,000	
		Culvert & crossing	1	nos.	10,000	
	Earth works	Earth works for trapezoidal canal section	170	m	35,000	
	Road	Gravelling	1,245	m	180,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (6/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Low Level D5-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	18	m	64,800	
		Turnout, pipe outlet & regulator	2	nos.	25,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
Low Level D6-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	1,325	m	4,741,400	
		Drop structure	6	nos.	144,500	
		Turnout, pipe outlet & regulator	7	nos.	68,000	
		Culvert, crossing & bridge	2	nos.	1,041,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
	Road	Gravelling	1,350	m	170,000	
Low Level D7-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	170	m	612,000	
		Turnout, pipe outlet & regulator	3	nos.	22,000	
		Culvert, crossing & bridge	1	nos.	3,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
	Road	Gravelling	0	m	0	
Low Level D8-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	340	m	1,260,000	
		Turnout, pipe outlet & regulator	7	nos.	55,000	
		Culvert, crossing & bridge	1	nos.	20,000	
	Earth works	Earth works for trapezoidal canal section	0	m	0	
	Road	Gravelling	350	m	50,000	
Low Level D9-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	2,000	m	7,220,000	
		Drop structure	3	nos.	53,000	
		Turnout, pipe outlet & regulator	14	nos.	211,000	
		Culvert, crossing & bridge	1	no.	35,000	
	Earth works	Desilting the canal bed	3,000	m	75,000	
Low Level D10-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	190	m	1,120,000	
		Turnout, pipe outlet & regulator	2	nos.	31,000	
		Culvert, crossing & bridge	1	no.	2,000	
	Earth works	Desilting the canal bed	0	m	0	
	Road	Gravelling	355	m	40,000	
Low Level D11-canal	Structure	Trapezoidal canal section (masonry wall + plaster)	726	m	2,748,600	
		Turnout, pipe outlet & regulator	4	nos.	137,000	
		Drop structure	5	nos.	191,000	
	Earth works	Desilting the canal bed	0	m	0	
	Road	Gravelling	748	m	100,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (7/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Low Level Nelubewa center	Structure	Trapezoidal canal section (masonry wall + plaster)	578	m	2,148,800	
		Turnout, pipe outlet & regulator	9	nos.	86,000	
		Culvert, crossing & bridge	2	nos.	38,000	
	Earth works	Desilting the canal bed	0	m	0	
	Road	Gravelling	588	m	75,000	
Low Level D-canal Total					34,611,000	
High Level Sena Samagi FO-1	Structure	Canal lining (masonry or concrete)	335	m	347,200	
		Regulator	1	no.	36,675	
		Culvert	1	no.	26,350	
	Earth works	Earth works for canal bund filling	61	m	18,725	
		Earth excavation for drainage canal	75	m	11,200	
	Road	Earth filling & gravelling	4,000	m	1,365,850	
	Total of FO-1				1,806,000	
High Level Mahasen FO-2	Structure	Canal lining (masonry or concrete)	1,488	m	1,625,950	
		Water tank	2	nos.	25,400	
		Regulator	2	nos.	209,850	
		Spill canal improvement	1	no.	56,000	
		Culvert	2	nos.	21,000	
	Earth works	Earth works for canal bund filling	152	m	19,300	
		Earth woks for gravelling & others	1	L.S.	401,600	
	Total of FO-2				2,359,000	
High Level Parakrama FO-3	Structure	Canal lining (masonry or concrete)	3,848	m	7,681,175	
		Regulator & turnout	5	nos.	58,925	
		Culvert	24	nos.	791,600	
		Construction of threshing yard	3	nos.	106,725	
		Improvement of anicut	1	no.	186,150	
	Earth works	Earth works for canal bund filling	207	m	45,825	
	Road	Earth filling & gravelling	4,000	m	2,062,800	
	Total of FO-3				10,933,000	
High Level Samagi FO-4	Structure	Canal lining (masonry or concrete)	1,610	m	2,172,450	
		Turnout	4	nos.	114,900	
		Culvert	1	no.	37,400	
	Earth works	Earth work for canal desilting	3	nos.	89,425	
	Total of FO-4				2,414,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (8/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
High Level Ranketa FO-5	Structure	Canal lining (masonry or concrete)	6,089	m	7,757,200	
		Sluice gate	1	nos.	199,900	
		Culvert	2	no.	98,200	
	Earth works	Earth work for drainage canal	500	m	97,125	
		Earth work for canal bund filling	10	m	1,925	
	Road	Earth filling & gravelling	5,476	m	2,197,150	
	Total of FO-5				10,351,000	
High Level 26/27 D-canal FO-6	Structure	Canal lining (masonry or concrete)	2,389	m	1,982,450	
		Turnout	13	nos.	265,150	
		Culvert	3	no.	79,050	
	Earth works	Earth work for canal bund filling	1	no.	3,850	
	Road	Earth filling & gravelling	6,468	m	1,444,725	
	Total of FO-6				3,775,000	
High Level Ruwanmweli FO-7	Structure	Canal lining (masonry or concrete)	1,470	m	2,818,125	
		Regulator & turnout	3	nos.	103,900	
		Culvert	1	no.	79,125	
	Earth works	Improvement of spill tail canal	1,500	m	582,750	
		Earth work for drainage canal excavation	500	m	194,250	
	Road	Earth filling & gravelling	5,950	m	2,515,850	
	Total of FO-7				6,294,000	
High Level Tissa FO-8	Structure	Canal lining (concrete)	550	m	932,025	
	Total of FO-8				932,000	
High Level D & F-canal Total					38,864,000	
Low Level Al-Aksa FO-9	Structure	Canal lining (masonry)	5,400	m	4,257,375	
		Turnout	16	nos.	160,500	
	Total of FO-9				4,417,000	
Low Level Ekasth FO-10	Structure	Canal lining (masonry or concrete)	3,105	m	6,511,075	
		Regulator & turnout	5	nos.	143,625	
		Causeway	1	no.	26,350	
	Earth works	Earth work for canal bund filling	3,947	m	389,425	
	Road	Earth filling & gravelling	2,840	m	2,002,825	
	Total of FO-10				9,073,000	

Table T 2.3 Cost Estimation for Rehabilitation Works of Nachchaduwa Scheme (9/9)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Low Level Isuru FO-11	Structure	Canal lining (masonry or concrete)	1,631	m	2,273,200	
		Turnout	12	nos.	223,500	
		Culvert	1	no.	26,350	
		Tractor entrance	1	no.	7,150	
	Earth works	Earth work for canal bed desilting	200	m	16,850	
	Road	Earth filling & gravelling	3,236	m	1,582,575	
	Total of FO-11				4,129,000	
Low Level Rana Mayura FO-12	Structure	Canal lining (masonry or concrete)	3,060	m	3,281,875	
		Turnout & sluice gate	5	nos.	162,725	
		Culvert	3	nos.	58,050	
		Others	1	L.S.	110,000	
	Earth works	Earth work for canal bed desilting	122	m	5,125	
		Earth work for canal bund filling	550	m	75,225	
	Road	Earth filling & gravelling	4,720	m	2,310,675	
	Total of FO-12				6,003,000	
Low Level Gemunu FO-13	Structure	Canal lining (masonry or concrete)	4,900	m	6,546,725	
		Culvert	4	nos.	105,400	
	Earth works	Earth work for canal bund filling	5,200	m	351,775	
	Road	Earth filling & gravelling	6,200	m	3,292,050	
	Total of FO-13				10,295,000	
Low Level Wiyaya FO-14	Structure	Canal lining (masonry or concrete)	2,500	m	4,544,075	
		Culvert	8	nos.	210,750	
	Earth works	Earth work for canal bund filling	4,150	m	1,451,900	
		Earth work fir drainage excavation	4,000		777,000	
	Road	Earth filling & gravelling	2,100	m	2,043,850	
	Total of FO-14				9,027,000	
Low Level D & F-canal Total					42,944,000	

Table T 2.4 Cost Estimation for Rehabilitation Works of Palukadawela Scheme (1/5)

Classification	Item	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
1) Civil Work					
	a) Tank		1 L.S.	2,118,000	
	b) Feeder Canal		1 L.S.	825,000	
	c) Anicut		1 L.S.	5,350,000	
	d) RB Main Canal		1 L.S.	9,416,000	
	e) Distributary Canal (managed by ID)		1 L.S.	5,173,000	
	d) Field Canal & small tank (managed by FO)			17,627,000	
	f) Total Cost of Civil Work			40,509,000	
		Pro-rate		597	US$/ha
2) Overhead & Profit				10,532,000	26% of 1)
3) GST				6,380,000	12.5% of 1) and 2)
4) Total of Basic Cost				57,421,000	1) +2) + 3)

Table T 2.4 Cost Estimation for Rehabilitation Works of Palukadawela Scheme (2/5)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Tank	Bund	Earth works in forming bund at low sections	1	L.S.	150,000	
		Improvement to rip rap protection	1	L.S.	5,000	
		Improvement to bathing spots	1	L.S.	50,000	
		Construction of new bathing spots	1	L.S.	75,000	
		Gravelling tank bund road	1	L.S.	150,000	
		Provision of toe filter	1	L.S.	3,000	
	Sluice	Improvement to down stream structure of LB & RB sluices	1	L.S.	150,000	
		Improvement to upstream wall of RB sluice & fixing gate posts	1	L.S.	125,000	
		Provision of trash rack	1	L.S.	30,000	
		Provision of hand rails to head sluice	1	L.S.	30,000	
	Spillway	Providing reinforced concrete skin cover	1	L.S.	150,000	
		Construction of bridge over spill way	1	L.S.	500,000	
	Others	Construction of new bridges	2	nos.	400,000	
		Construction of new causeway	4	nos.	150,000	
		Construction of retaining wall	60	m	150,000	
Tank Total					2,118,000	
Feeder Canal	Structure	Regulator	1	no.	60,000	
		Measuring device	1	no.	455,000	
	Earth works	Earth filling & desilting	472	m	235,000	
	Road	Leveling	472	m	75,000	
Feeder Canal Total					825,000	

Table T.2.4 Cost Estimation for Rehabilitation Works of Palukadawela Scheme (3/5)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Anicut		Improvement to Dangahakotuwa amuna	1	L.S.	350,000	
		Improvement to Alakola amuna	1	L.S.	250,000	
		Improvement to Kota Ela	1	L.S.	250,000	
		Improvement to Weeradadana amuna (No.1)	1	L.S.	350,000	
		Improvement to Weli amuna	1	L.S.	250,000	
		Improvement to Malgaha Kotuwa	1	L.S.	250,000	
		Improvement to Weehena amuna	1	L.S.	400,000	
		Improvement to Thalakola amuna	1	L.S.	300,000	
		Improvement to Thibbatuhena amuna	1	L.S.	300,000	
		Improvement to Weeradadana amuna (No.2)	1	L.S.	350,000	
		Improvement to Kotuwela amuna	1	L.S.	350,000	
		Improvement to Halmilla Kotuwa amuna	1	L.S.	250,000	
		Improvement to Pahgaha Kotuwa amuna	1	L.S.	350,000	
		Improvement to Karuwala Gaha Kotuwa amuna	1	L.S.	350,000	
		Improvement to Puranwela amuna	1	L.S.	250,000	
		Improvement to Nawa amuna	1	L.S.	250,000	
		Construction of new anicut between Thalakola & Thibbatuhena amuna	1	L.S.	500,000	
Anicut Total					5,350,000	
RB Main Canal	Structure	Retaining wall (masonry)	16	nos.	535,000	
		Turnout, regulator & measuring devices	31	nos.	1,955,000	
		Bridge, culvert & crossing	28	nos.	1,361,000	
		Spill causeway	10	nos.	110,000	
		Bathing spots	9	nos.	140,000	
		Improvement of tunnel section	260	m	1,000,000	
		Others	1	L.S.	100,000	
	Earth works	Earth filling, desilting & gravelling road	16,260	m	4,215,000	
RB Main Canal Total					9,416,000	
Tract 1 D6-canal	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	948	m	450,000	
Tract 1 D10-canal	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	1,950	m	650,000	

Table T.2.4 Cost Estimation for Rehabilitation Works of Palukadawela Scheme (4/5)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
	Structure	Retaining wall for canal lining (masonry)	2	no.	50,000	
		Turnout & regulator	12	nos.	103,000	
Tract 2		Drop structure	5	nos.	20,000	
D10-canal		Culvert	2	no.	16,000	
		Others	1	L.S.	10,000	
	Earth works		0	m	0	
	Structure	Retaining wall for canal lining (masonry)	2	no.	70,000	
		Turnout & pipe outlet	8	nos.	64,000	
Tract 2		Drop structure	12	nos.	68,000	
D10/4-canal		Pipe culvert	7	no.	56,000	
		Others	1	L.S.	4,000	
	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	1,920	m	750,000	
Tract 4	Structure				0	
D10canal	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	720	m	300,000	
	Structure	Pipe outlet	5	nos.	55,000	
Tract 5		Pipe culvert	2	no.	38,000	
D1-canal		Others	1	L.S.	8,000	
	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	1,712	m	600,000	
	Structure	Pipe outlet	12	nos.	98,000	
Tract 5		Culvert	1	no.	35,000	
D2-canal		Causeway	1	no.	50,000	
	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	2,038	m	600,000	
	Structure	Retaining wall for canal lining (masonry)	1	no.	60,000	
		Pipe outlet	14	nos.	163,000	
Tract 6		Drop structure	12	nos.	52,000	
D1-canal		Culvert	2	nos.	38,000	
		Bathing spots	1	no.	15,000	
	Earth works	Earth works for canal bund forming, turfing & gravelling for bund road	1,920	m	750,000	
D-Canal Total					5,173,000	
Tract 1	Structure	Turnout	23	nos.	895,675	
F-canal	Earth works				0	

Table T.2.4 Cost Estimation for Rehabilitation Works of Palukadawela Scheme (5/5)

Item to be rehabilitated		Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
	Structure	Canal lining (masonry or concrete)	82	m	83,519	
		Farm turnout	31	nos.	543,205	
		Culvert	1	no.	39,600	
Tract 2		Drain canal anicut	1	no.	345,075	
F-canal		Others	1	L.S.	28,100	
	Earth works	Earth works for canal bund forming	150	m	35,325	
		Desilting from tank bed	1	L.S.	1,630,200	
	Road	Earth filling & gravelling	10,020	m	4,474,925	
	Structure	Canal lining (masonry or concrete)	400	m	521,375	
		Farm turnout	5	nos.	240,875	
Tract 3		Culvert	1	no.	47,550	
F-canal		Bathing step	3	nos.	129,200	
	Earth works	Earth filling for canal & road	1	L.S.	77,700	
Tract 4	Structure				0	
F-canal	Earth works				0	
	Structure	Canal lining (masonry or concrete)	304	m	501,875	
		Sluice	1	L.S.	99,940	
		Farm turnout	4	nos.	101,020	
Tract 5		Culvert	12	nos.	360,045	
F-canal		Bathing step	3	nos.	40,575	
		Others	1	L.S.	67,625	
	Earth works	Earth works for canal bund forming	206	m	101,525	
	Road	Earth filling & gravelling	9,582	m	5,614,950	
	Structure	Tank rip rap protection	1	L.S.	71,225	
		Bathing step	1	no.	38,175	
Tract 6		Farm turnout	4	nos.	61,275	
F-canal	Earth works	Earth work for canal bed desilting	1	L.S.	100,150	
	Road	Earth filling & gravelling	375	m	544,025	
	Structure	Canal lining (masonry or concrete)	462	m	420,050	
Puranagama		Causeway	3	nos.	327,825	
F-canal	Earth works	Earth work for canal bund filling	200	m	43,600	
	Road	Earth works for drainage canal excavation	200	m	41,125	
F-Canal Total					17,627,000	

Table T 2.5 Cost Estimation for Rehabilitation Works of Periyakulama Scheme (1/2)

Classification	Item	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
1) Civil Work					
	a) Tank		1 L.S.	6,362,000	
	b) Main Canal (Centre Low Level)		1 L.S.	3,856,000	
	c) D-Canal (Centre Low Level)		1 L.S.	997,000	
	d) F-Canal (RB High Level)		1 L.S.	745,000	
	e) F-Canal (LB High Level)		1 L.S.	1,450,000	
	f) Total Cost of Civil Work		1 L.S.	13,410,000	
		Pro-rate		2,076	US$/ha
2) Overhead & Profit				2,816,000	21% of 1)
3) GST				2,028,000	12.5% of 1) and 2)
4) Total of Basic Cost				18,254,000	1) +2) + 3)

Table T 2.5 Cost Estimation for Rehabilitation Works of Periyakulama Scheme (2/2)

Item to be rehabilitated		Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
Tank	Bund	Earth and gravel filling & slope protection	1 L.S.	1,562,000	
	Sluice	Reconstruction	3 nos.	600,000	
	Spillway	Spill tail canal improvement	1 L.S.	2,000,000	
	Others		1 L.S.	2,200,000	
	Total			6,362,000	
Main Canal (Low level, center)	Structure	Turnout & Regulator	9 nos.	154,000	
		Culvert	1 nos.	50,000	
		Rubble masonry wall	430 m	2,286,000	
		Sub-total		2,490,000	
	Earth works	Earth works & turfing	1,310 m	655,000	
		Drainage Canal Improvement	930 m	255,000	
		Sub-total		910,000	
	Maintenance road	Earth filling & graveling	430 m	456,000	
	Total			3,856,000	
D-Canal 1 (Low level, center)	Structure	Turnout	7 nos.	42,000	
		Culvert	2 nos.	100,000	
		Sub-total		142,000	
	Earth works	Earth works	1,710 m	855,000	
		Sub-total		855,000	
	Total			997,000	
F-canal (High level, RB)	Structure	Turnout	3 nos.	18,000	
		Culvert	2 nos.	100,000	
		Sub-total		118,000	
	Earth works	Earth works	1,110 m	555,000	
		Drainage Canal Improvement	100 m	72,000	
		Sub-total		627,000	
	Total			745,000	
F-canal (High level, LB)	Structure	Turnout	8 nos.	48,000	
		Culvert	2 nos.	100,000	
		Sub-total		148,000	
	Earth works	Earth works (field canal improvement)	2,100 m	1,050,000	
		Drainage Canal Improvement	920 m	252,000	
		Sub-total		1,302,000	
	Total			1,450,000	
Total				13,410,000	

Table T 2.6 Cost Estimation for Rehabilitation Works of Mahannaneriya Scheme (1/2)

Classification	Item	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
1) Civil Work					
	a) Tank		1 L.S.	2,180,000	
	b) Anicut		1 L.S.	3,600,000	
	c) RB Main Canal		1 L.S.		
		Earth Works	1 L.S.	1,050,000	
		Structures	1 L.S.	2,453,000	
	d) F-Canal		1 L.S.		
		Earth Works	1 L.S.	0	
		Structures	1 L.S.	0	
	e) Road (FO's request)		1 L.S.	1,264,000	
	f) Total Cost of Civil Work			10,547,000	
		Pro-rate		940	US$/ha
2) Overhead & Profit				2,214,000	21% of 1)
3) GST				1,595,000	12.5% of 1) and 2)
4) Total of Basic Cost				14,356,000	1) +2) + 3)

Table T 2.6 Cost Estimation for Rehabilitation Works of Mahananneriya Scheme (2/2)

Item to be rehabilitated		Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
Tank	Bund	Earth works in forming bund at low sections	1 L.S.	150,000	
		Gravelling tank bund road	1 L.S.	80,000	
		Improvement of rip rap protection	1 L.S.	750,000	
		Improvement of concrete slap protection	1 L.S.	250,000	
		Provision of toe-filter	1 L.S.	200,000	
	Sluice	Improvement to tower and approach of sluice & fixing gauge	1 L.S.	200,000	
		Improvement of down stream transition structure	1 L.S.	75,000	
		Provision of measuring device	1 L.S.	50,000	
	Spillway	Provision of upstream cut-off wall	1 L.S.	100,000	
		Improvement of downstream water cushion	1 L.S.	250,000	
		Improvement of abutments	1 L.S.	75,000	
	Others	Improvement of anicut	7 nos.	3,600,000	
	Total			5,780,000	
Main Canal (RB)	Structure	Rubble masonry wall for canal lining	88 m	370,000	
		Turnout & regulator	29 nos.	1,108,000	
		Culvert	12 nos.	365,000	
		Drainage inlet structure	6 nos.	55,000	
		Drop structure	7 nos.	130,000	
		Canal spill structure	6 nos.	300,000	
		Others	1 no.	125,000	
		Sub-total		2,453,000	
	Earth works	Desilting, Earth work in forming canal bund & turfing	3,550 m	1,050,000	
		Sub-total		1,050,000	
F-Canal	Structure				
	Earth works				
Road		Earth filling & graveling	2,310 m	1,183,000	
		Culvert	2 nos.	81,000	
		Sub-total		1,264,000	
Total				10,547,000	

Table T.2.7 Cost Estimation for Rehabilitation Works of Minor Schemes (Cascade) (1/4)

Name of Scheme	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
Kallanchiya	1) Civil Work			
	a) Tank	1 L.S.	668,000	
	b) Canal system	1 L.S.	989,000	
	c) Feeder Canal	1 L.S.	96,000	
	d) Road	1 L.S.	0	
	g) Total Cost of Civil Work		1,753,000	
	Pro-rate		3,048.00	US$/ha
	2) Overhead & Profit		298,000	17% of 1)
	3) GST		256,000	12.5% of 1) and 2)
	4) Total of Basic Cost		2,307,000	1) +2) + 3)
Artikulama	1) Civil Work			
	a) Tank	1 L.S.	719,000	
	b) Canal system	1 L.S.	227,000	
	c) Feeder Canal	1 L.S.		
	d) Road	1 L.S.	0	
	g) Total Cost of Civil Work		946,000	
	Pro-rate		1,101.00	US$/ha
	2) Overhead & Profit		160,000	17% of 1)
	3) GST		138,000	12.5% of 1) and 2)
	4) Total of Basic Cost		1,244,000	1) +2) + 3)
Mailewa	1) Civil Work			
	a) Tank	1 L.S.	1,161,000	
	b) Canal system	1 L.S.	495,000	
	c) Feeder Canal	1 L.S.	0	
	d) Road	1 L.S.	946,000	
	g) Total Cost of Civil Work		2,602,000	
	Pro-rate		1,666.00	US$/ha
	2) Overhead & Profit		442,000	17% of 1)
	3) GST		380,000	12.5% of 1) and 2)
	4) Total of Basic Cost		3,424,000	1) +2) + 3)

Table T 2.7 Cost Estimation for Rehabilitation Works of Minor Schemes (Cascade) (2/4)

Name of Scheme	Description	Quantities	Rehabilitation Cost (Rs.)	Remarks
Ihalagama	1) Civil Work			
	a) Tank			
	b) Canal system			
	c) Feeder Canal			
	d) Road			
	g) Total Cost of Civil Work		2,890,000	
	Pro-rate		1,404.00	US$/ha
	2) Overhead & Profit		491,000	17% of 1)
	3) GST		422,000	12.5% of 1) and 2)
	4) Total of Basic Cost		3,803,000	1) +2) + 3)
Tambare	1) Civil Work			
	a) Tank		1,480,000	
	b) Canal system		293,000	
	c) Feeder Canal		0	
	d) Road		0	
	g) Total Cost of Civil Work		1,773,000	
	Pro-rate		1,236.00	US$/ha
	2) Overhead & Profit		301,000	17% of 1)
	3) GST		259,000	12.5% of 1) and 2)
	4) Total of Basic Cost		2,333,000	1) +2) + 3)
Ihara Nanneriya	1) Civil Work			
	a) Tank		1,492,000	
	b) Canal system		243,000	
	c) Feeder Canal		0	
	d) Road		0	
	g) Total Cost of Civil Work		1,735,000	
	Pro-rate		940.00	US$/ha
	2) Overhead & Profit		294,000	17% of 1)
	3) GST		253,000	12.5% of 1) and 2)
	4) Total of Basic Cost		2,282,000	1) +2) + 3)

Table T 2.7 Cost Estimation for Rehabilitation Works of Minor Schemes (Cascade) (3/4)

Name of Scheme			Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Kallanchiya	Tank	Bund	Bund earth work & slope protection	1	L.S.	294,775	
		Spill	Construction of spill & causeway	1	L.S.	204,575	
		Sluice	Reconstruction	1	no.	169,170	
		Sub-total				668,000	
	Canal system	F-canal	Rubble masonry wall	1,000	m	696,100	
		Structure	Farm turnout	20	nos.	293,425	
		Sub-total				989,000	
	Feeder canal	Earth Excavation		1,500	m	96,200	
		Sub-total				96,000	
	Total					1,753,000	
Artikulama	Tank	Bund	Bund earth work & slope protection	1	L.S.	195,525	
		Sluice	Reconstruction	2	nos.	323,240	
		Bathing step	New construction	2	nos.	116,025	
		Spill	Rehabilitation	1	L.S.	84,900	
		Sub-total				719,000	
	Canal system	Structure	Farm turnout	10	nos.	146,800	
		Causeway	New construction	2	nos.	80,925	
		Sub-total				227,000	
	Total					946,000	
Mailewa	Tank	Bund	Bund earth work & slope protection	1	L.S.	330,100	
		Sluice	Reconstruction	1	no.	155,545	
		Spill tail canal	Earth excavation	3,000	m	676,000	
		Sub-total				1,161,000	
	Canal system	Canal	Earth filling & turfing, L=1.5 km	1,500	m	495,700	
		Sub-total				495,000	
	Road	Agricultural Road	Earth & gravel filling	2,000	m	946,100	
		Sub-total				946,000	
	Total					2,602,000	

Table T 2.7 Cost Estimation for Rehabilitation Works of Minor Schemes (Cascade) (4/4)

Name of Scheme			Description	Quantities		Rehabilitation Cost (Rs.)	Remarks
Tambare	Tank	Desilting		1	L.S.	106,000	
		Bund	Bund earth work & slope protection	1	L.S.	418,725	
		Spill	Rehabilitation	1	L.S.	644,740	
		Sluice	Reconstruction	2	nos.	311,090	
		Sub-total				1,480,000	
	Canal system	Structure	Farm turnout, 20 nos	20	nos.	293,425	
		Sub-total				293,000	
	Total					1,773,000	
Ihara Nanneriya	Tank	Bund	Bund earth work & slope protection	1	L.S.	539,175	
		Bathing step		3	nos.	191,460	
		Desilting		1	L.S.	400,000	
		Sluice	Reconstruction	1	no.	155,545	
		Spill	Rehabilitation	1	L.S.	206,085	
		Sub-total				1,492,000	
	Canal system	Canal	Earth filling	800	m	173,100	
		Canal	Rehabilitation of pipeline	30	m	70,000	
		Sub-total				243,000	
	Total					1,735,000	
Total						8,809,000	
Rs./ha						1,404	

Table T 2.8 Costs for Rehabilitation and Improvement of Supporting Facilities and Provision of Equipment (Priority Irrigation Schemes)

Items	Quantity	Unit	Price (Rs.1,000)	Amount (Rs.1,000)	Remarks
1. Mobilization of PMU				29,200	
1) Vehicles and Equipment					
- Vehicles *1	19	No.	1,200	22,800	
- Motor Cycles *2	4	No.	100	400	
2) Office Equipment					
- Computer set	10	No.	200	2,000	
- Copy machine	5	L.S.	300	1,500	
- Other equipment	1	L.S.		1,000	
3) Others		L.S.		1,500	
2. Construction of Farmer Centre	27	No.	1,320	35,640	Floor space 140 m2/no.
3. Strengthening of Agricultural Support Services				39,710	
1) Institutional Strengthening Program for Agricultural Extension					
- Logistic Support Strengthening Program					
Provision of Motor Cycles	3	No.	100	300	IPEU, PODA/NCP & PODA/NWP
Provision of Computer Set	2	Set	200	400	IPEU & PODA/NWP
- Upgrading of ISTI, Maha Illuppallama					
Audio visual equipment	1	Set	900	900	Video camera (VHS) x 1, Video deck (VCR) x 2, TV x 1, Overhead projector & screen x 2, Printing machine x 1, Copy machine x 1
Bus	1	No.	9000	9,000	
2) Strengthening of Farmers/FOs Support Facilities					
- ASC Strengthening Program					
Provision of Motor Cycles for ASC	3	No.	100	300	ASC Nachchaduwa (Anuradhapura), ASC Galugamuwa (Kurunegala), ASC Mahananneriya (Kurunegala)
Renovation of Building, Office/Training Equipment	4	L.S.	600	2,400	ASC Nachchaduwa (Anuradhapura), ASC Tirappane (Anuradhapura), ASC Galugamuwa (Kurunegala), ASC Mahananneriya (Kurunegala)
- Strengthening of DAS					
Provision of Vehicle/DAS Office	2	No.	1200	2,400	DAS offices of Anuradhapura & Kurunegala
3) Support Programs for Income Generation					
- Upgrading of Seed Farm, Galgamuwa					
Potting Shed	2	No.	6.2/m2	2,480	200 m2
Shade House	2	No.	5.0/m2	4,000	400 m2
Office Quarter	1	No.	12.2/m2	1,220	100 m2
Irrigation facilities				140	Water pump & pumping station, water storage tank, irrigation system (1 ha)
Garage	1	No.	4.1/m2	210	50 m2
Training Equipment	1	Set	600	600	
Office Facilities	1	Set	500	500	
Vehicle (4 t truck)	1	No.	2,000	2,000	
- Upgrading of IFTC, Nikaweratiya					
Training building	1	No.	12.2/m2	1,460	120m2
Hostel	1	No.	13.5/m2	2,700	5 rooms x 40m2/room
Manager quarter	1	No.	13.5/m2	1,350	100 m2
Dairy shed	1	No.	300	300	To house 20 cows
Minisize dairy laboratory	1	No.	500	500	
Vehicle	1	No.	2,900	2,900	Micro-bus: 25 seats
- Strengthening of PDAPHs' Extension Activities					
Provision of Motor Cycles	2	No.	100	200	Anuradhapura and Kurunegara Offices
- Strengthening of Aqua-culture Extension Center					
1. Extension center building	1	No.	12.2/m2	2,400	200 m2
2. Training equipment	1	No.	270	270	
3. Facilitates of extension center	1	Set	380	380	Tables, chairs, board, cabinet, etc.
4. Provision of Motor Cycles for Aquaculture Extension Officers	2		100	200	
4) Strengthening of RPM Offices					
- Provision of Motor Cycles	2		100	200	
4. Physical Contingency (5%)				5,230	
Total				109,780	

*1 Number of Vehicles in PMU Office

Project Director	1	Agri. Supporting	1
Deputy Project Director	1	Income Generation	2
Construction (1)	4	M&E	2
O&M	1	Administration (2)	3
Farmer Supporting/Credit	2	IMD Head Office	2
Total			19

(1) 2 nos. for PEDs in NWP and NCP

(2) 2 nos. for mobilising resources persons and training equipment for institutional development.

*2 Technical officers of PED in NWP & NCP

Table T 2.9 Costs for Awareness and Training Programmes

Items	Quantity	Unit	Price (Rs.1,000)	Amount (Rs.1,000)	Remarks
1. Strengthening of Farmers' Organizations (FOs)					
1) Awareness Programme				16,000	*(rounded)*
- Employment of expert for participatory approach	125	M/D	10	1,250	NHDA/KARTI/NGO
- Facilitator	248	M/D	5	1,240	NHDA/KARTI/NGO
- Assistant to the facilitator	196	M/D	3	588	DAS/IMD/KARTI
- Instructor/Expert (Gender, PCM/LFA, Community Dev.)	76	M/D	5	380	NHDA/KARTI/NGO
- Instructor - ASC DO	60	M/D	0.5	30	DAS
- Other Resource Persons	32	M/D	3	96	NGO, Volunteer
- Other Resource Persons assisting in CAP	588	M/D	2	1,176	NGO, Volunteer
- Printing & binding the Syllabus, Guidelines, Manual,etc.	18,000	#	0.15-0.5	3,000	
- Printing & binding of Action Planning Report	28	FOs	3	84	
- Teaching Materials (Text, Report, Video tape etc.)	9,877	#		1,410	
- Hand-out on Participatory Development	310	#	0.05	16	
- Stationery	1,015	Persons	0.5 - 1.0	580	
- Stationery	224	FOs	0.5-2.0	150	
- Rental fees for lecture rooms & Equipment	212	Days	6.5-15.0	330	
- Accommodation for Instructors and Residential Training	532	Persons	2.5-5.0	1,450	
- Meals (Lunch & tea x 2)	1,060	Persons	0.35-0.5	420	
- Miscellaneous	5,252	Persons/FOs	0.5-2.0	1,800	
- Vehicles	26.7	Month	75	2,003	Rental base
2) Training of FOs' Leaders				2,880	*(rounded)*
- Facilitator	112	M/D	5	560	(2day x 2 x 28 FOs)
- Assistant for the facilitator	112	M/D	3	336	DAS/IMD/KARTI
- Accommodation for Facilitator and other	224	Persons	2.5	560	
- Instructor	140	M/D	3	420	DAS/IMD/KARTI
- Instructor	84	M/D	3	252	KARTI
- Vehicles	10	Month	75	750	Rental base
2. Supplying irrigation water in accordance with schedule.					
1) Training for construction and supervision				870	
2) Training for water management				700	
3) Training for operation and management of irrigation facilites				700	
3. Improving agricultural activities.					
1) Strengthen agricultural extension services					
- Field programs				11,430	*(rounded)*
Adaptive Trials, Paddy, OFC & Vegetables	28	Unit	30	840	
Demonstration Plots, Paddy	57	Unit	16	912	
Demonstration Plots, OFC & Vegetables	71	Unit	10	710	
Cropping Pattern Demonstration	18	Unit	64	1,152	
Demonstration Block, Paddy	23	Unit	130	2,990	
Demonstration Farm, Paddy	11	Unit	40	440	
Demonstration Farm, OFC	17	Unit	30	510	
Paddy Productivity Increase Program	39	Unit	20	780	
IPM, Paddy & OFC	31	Unit	100	3,100	
- Farmer training programmes				1,650	*(rounded)*
Induction Farmer Training	7	Unit	28	196	
Induction Farmer Guidance	38	Unit	8	304	
Farmer Training	21	Unit	30	630	
Workshop/Mass Guidance	33	Unit	5	165	
Seed Campaign	19	Unit	10	190	
Study Tour	13	Unit	13	169	
- Seed production programme				1,300	*(rounded)*
Paddy Seed Production Program	140	ha	7	980	
OFC Seed Production Program	45	ha	7	315	
4. Strengthening Agricultural Support Programs					
1) Institutional Strengthening Program for Agricultural Extension					
- Staff Training Program				460	*(rounded)*
Induction Staff Training	1	Unit	42	42	IPEU, PDOA (NCP & NWP)
Refresher/In-service Training	10	Unit	42	420	IPEU, PDOA (NCP & NWP)
- Institutional Strengthening				7,600	*(rounded)*
Strengthening of Guidance/Supervision/Coordination		L.S.		5,000	IPEU, PDOA (NCP & NWP)
Strengthening of Research-Extension-Farmer Linkage		L.S.		2,600	IPEU, PDOA (NCP & NWP)
2) Strengthening of Farmers/FOs Support Institutions					
- Induction & Refresher Training of DO/ASC	11	Unit	42	460	*(rounded)*
- Induction & Refresher Training of Farmer Animators	11	Unit	42	460	*(rounded)*
5. Follow-up programme		L.S.		1,950	10% of 1.-2), 2. & 3.
6. Physical Contingency (5%)				2,320	
Total				48,780	

Table T 2.10 Costs for Administration of PMU and Capital of Loan

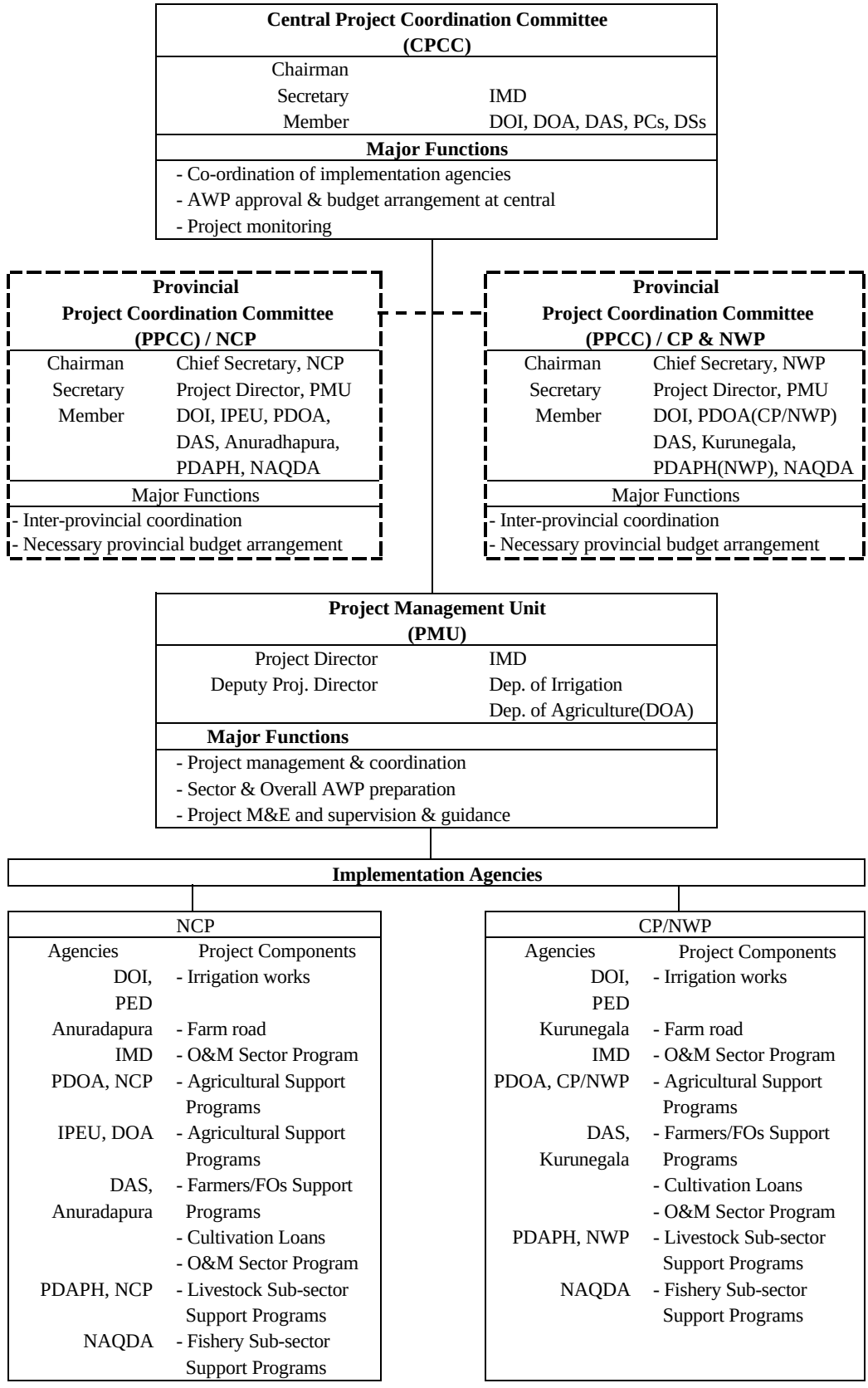
Items	Quantity	Unit	Price (Rs.1,000)	Amount (Rs.1,000)	Remarks
1. Administration Cost of PMU				56,280	
1) Personnel Cost - Officers	2,100	M/M	10	21,000	25 officers x 12 months x 7 years
- Supporting staff	2,520	M/M	6	15,120	30 staff x 12 months x 7 years
2) Monitoring and survey		L.S.		1,400	Rs.200,000 x 7 years
3) Consumables and others		L.S.		18,760	50% of 1) and 2)
2. Capital of Loan	40	Unit	500	20,000	
3. Physical Contingency (5%)				3,810	
Total				80,090	

Table T 3.1 Annual Disbursement Schedule of Project Costs

(Unit: Rs.1,000)

Items	Total	2002	2003	2004	2005	2006	2007	2008
I. Rehabilitation and Improvement of Irrigation Facilities and Farm Road (including physical contingency)								
1. Nachchaduwa Major Scheme	395,090	-	-	142,230	161,990	90,870	-	-
2. Palukadawela Major Scheme	58,700	-	-	35,220	23,480	-	-	-
3. Periyakulama Medium Scheme	17,850	-	-	17,850	-	-	-	-
4. Mahananneriya Medium Scheme	14,040	-	-	14,040	-	-	-	-
5. Mahananneriya Minor Schemes (Cascade)	15,170	-	-	15,170	-	-	-	-
Sub-total	500,850	-	-	224,510	185,470	90,870	-	-
II. Rehabilitation and Improvement of Supporting Facilities and Provision of Equipment								
1. Mobilization of PMU	29,200	29,200						
2. Construction of Farmer Centre	35,640	-	-	26,400	9,240	-	-	-
3. Strengthening of Agricultural Support Services	39,710	10,100	29,610	-	-	-	-	-
1) Institutional Strengthening Program for Agricultural Extension								
- Logistic Support Strengthening Program	700	-	700	-	-	-	-	-
- Upgrading of ISTI, Maha Illuppallama	9,900	9,900	-	-	-	-	-	-
2) Strengthening of Farmers/FOs Support Facilities								
- ASC Strengthening Program	5,100	-	5,100	-	-	-	-	-
3) Support Programs for Income Generation								
- Upgrading of Seed Farm, Galgamuwa	11,150	-	11,150	-	-	-	-	-
- Upgrading of IFTC, Nikaweratiya	9,210	-	9,210	-	-	-	-	-
- Strengthening of PDAPHs'								
Extension Activities	200	-	200	-	-	-	-	-
- Strengthening of Aqua-culture								
Extension Center	3,250	-	3,250	-	-	-	-	-
4) Strengthening of RPM Offices								
- Provision of Motor Cycles	200	200	-	-	-	-	-	-
4. Physical Contingency (5%)	5,230	1,970	1,480	1,320	460	-	-	-
Sub-total	109,780	41,270	31,090	27,720	9,700	-	-	-
III. Awareness and Training Programmes								
1. Strengthening of Farmers' Organizations (FOs)								
1) Awareness Programme	16,000	11,210	4,790	-	-	-	-	-
2) Training of FOs' Leaders	2,880	-	1,000	1,340	540	-	-	-
2. Training for construction,								
water management and O&M	2,270	360	560	150	280	340	420	160
3. Improving agricultural activities.								
1) Strengthen agricultural extension services								
- Field programs	11,430	-	1,300	3,160	3,030	2,680	1,260	-
- Farmer training programmes	1,650	-	560	430	350	190	120	-
- Seed production programme	1,300	-	-	210	350	490	250	-
4. Strengthening Agricultural Support Programs								
1) Institutional Strengthening Program								
for Agricultural Extension	8,060	540	1,580	1,890	1,780	1,690	580	-
2) Strengthening of Farmers/FOs								
Support Institutions	920	80	170	170	170	170	160	-
5. Follow-up Programme (10% of 1.-2), 2. & 3.)	1,950	-	-	-	-	360	490	1,100
6. Physical Contingency (5%)	2,320	610	500	370	320	300	160	60
Sub-total	48,780	12,800	10,460	7,720	6,820	6,220	3,440	1,320
IV. Administration Cost of PMU and Capital of Loan								
1. Administration Cost of PMU	56,280	8,040	8,040	8,040	8,040	8,040	8,040	8,040
2. Capital of Loan	20,000	-	-	6,000	5,500	5,500	3,000	-
3. Physical Contingency (5%)	3,810	400	400	700	680	680	550	400
Sub-total	80,090	8,440	8,440	14,740	14,220	14,220	11,590	8,440
V. Engineering Services (10% of I to III)	65,940	13,188	13,188	13,188	6,594	6,594	6,594	6,594
Total	805,440	75,698	63,178	287,878	222,804	117,904	21,624	16,354
VI. Price Contingency	436,624	15,897	20,912	133,604	136,024	90,970	20,515	18,702
Grand Total	1,242,064	91,595	84,090	421,482	358,828	208,874	42,139	35,056
VII. GST (12.5%)	155,257	11,449	10,511	52,685	44,854	26,109	5,267	4,382
Grand Total with Tax	1,397,321	103,044	94,601	474,167	403,682	234,983	47,406	39,438

FIGURES



The Study for the Potential Realization of Irrigated Agriculture in the Dry and Intermediate Zones of Sri Lanka

Japan International Cooperation Agency

Figure T 1.1

Proposed Institutional Set-up for Project Implementation and Management

The Study for the Potential Realization of Irrigated Agriculture in the Dry and Intermediate Zones of Sri Lanka

Japan International Cooperation Agency

Figure T 1.2

Proposed Organisational Structure of Project Management Unit

ATTACHMENTS

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (1/59)

Name of Scheme : Nachchaduwa

Place : Tank

Portion	Description of Rehabilitation and Improvement Plan	Estimated cost required (Rs.)	Remarks
Tank Bund	Earth work in tank bund where necessary	200,000.00	
	Strip turfing to newly filled earth	50,000.00	
	Gravelling along tank bund	300,000.00	
	Removing of existing damaged Rip-Rap section and re-packing, providing new Rip-Rap	500,000.00	
	Construction of toe filter from 1000m to1280m	1,500,000.00	
Sluice	Repairs to existing Sluice	300,000.00	
	Providing Gabion walls in down stream of sluice	1,000,000.00	
Spillway	Repairs to spill way	500,000.00	
Others	Improvement to tank bund access road (Metaling sand taring)	1,000,000.00	
	Construction of retaining walls in bund road near sluice	300,000.00	
	Improvement to foot bridge	100,000.00	
Grand Total		5,750,000.00	

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (2/59)

Name of Scheme : Nachchaduwa

Name of Canal : Yoda Ela (Feeder Canal), Eartworks

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0.0km	10.0km	10000	9.19	20'-0	12'-0	verticle	Desilting along the chl	2,500,000.00
2	7.08km	7.58km	500	9.19	20'-0	12'-0	verticle	Straiten the canal	700,000.00
3								Farth work where necessary	1,000,000.00
									4,200,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (3/59)

Name of Scheme : Nachchaduwa

Place : Yoda Ela (Feeder Canal), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	0.020km	Measuring device (N)		x							To measure water from System H	200,000.00
2	2.10km	Bathing steps (N)		x								50,000.00
3	2.60km	Retaining wall (N)		x								400,000.00
4	8.60km	Retaining wall (N)		x								800,000.00
5	3.83km	Bridge										
6	4.68km	Cross Regulator									To be demolish	50,000.00
7	5.07km	Retaining wall (N)		x								500,000.00
8	5.87km	Retaining wall (N)		x								500,000.00
9	6.62km	Cause way Cum]									along the chl. Road	
10		Dr.under crossing								x		400,000.00
11	6.80km	Cause way		x						x	along the chl. Road	500,000.00
12	7.011km	Retaining wall (N)		x								400,000.00
13	7.083km	Retaining wall (N)		x								500,000.00
14	7.173km	Box culveit(18'.0×12'.0)		x						x		200,000.00
15	7.29km	Retaining wall (N)		x								500,000.00
16	7.38km	Retaining wall (N)		x								800,000.00
17	7.461km	Retaining wall (N)		x								400,000.00
18	7.542km	Retaining wall (N)		x								500,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (4/59)

Name of Scheme : Nachchaduwa

Place : Yoda Ela (Feeder Canal), Structure

19	8.01km	Retaining wall (N)		x								500,000.00
20	8.181km	Box culveit(12'.0×12'.0)		x						x	Along the chl. Road	200,000.00
21	8.81km	Retaining wall (N)		x								400,000.00
22	8.325km	Retaining wall (N)		x								400,000.00
23	8.415km	Bridge(39'.-6"×9'-6")		x						x		1,000,000.00
24	8.505km	Retaining wall (N)		x								400,000.00
25	8.613km	Retaining wall (N)		x								600,000.00
26	9.0km	Retaining wall (N)		x								1,000,000.00
27	9.0km	Bridge										
28	9.45km	Retaining wall (N)		x								600,000.00
29	9.81km	Measuring device (N)		x								200,000.00
	Total											12,000,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (5/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan if any	Estimated cost required (Rs.)
1	100.8	351.0	250		6.15			Beck fill for R/wall-LB side	32,500.00
2	400.0	670.0	270					Beck fill for R/wall-LB side	35,100.00
3	600.0	650.0	50					Beck fill for R/wall-RB side	6,500.00
4	717.0	110.0	383					Beck fill for R/wall-LB side	49,790.00
5	900.0	110.0	200					Beck fill for R/wall-RB side	26,000.00
6	1115.0	1362.0	247					Beck fill for R/wall-LB & RB side	32,110.00
7	1444.0	1499.0	55					Beck fill for R/wall-LB & RB side	7,150.00
8	2600.0	2800.0	200					Beck fill for R/wall-LB side	26,000.00
9	3886.4	41114.0	225					Beck fill for R/wall-LB & RB side	29,250.00
10	4580.0	4765.0	185					Beck fill for R/wall-LB & RB side	24,050.00
11	5750.0	5900.0	150					Beck fill for R/wall-LB & RB side	19,500.00
12	6625.0	6700.0	75					Beck fill for R/wall-LB & RB side	9,750.00
13	6745.0	7100.0	355					Beck fill for R/wall-LB & RB side	46,150.00
14	7550.0	7700.0	150					Beck fill for R/wall-LB & RB side	19,500.00
15	7275.0	7305.0	30					Beck fill for R/wall-LB & RB side	3,900.00
16	7833.8	7988.8	55					Beck fill for R/wall-LB & RB side	7,150.00
17	7890.0	7920.0	30					Beck fill for R/wall-LB & RB side	3,900.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (6/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan if any	Estimated cost required (Rs.)
18	8000.0	8160.0	160		6.15			Beck fill for R/wall-RB side	20,800.00
19	8140.0	8200.0	60					Beck fill for R/wall-LB side	7,860.00
20	8210.0	8225.0	15					Beck fill for R/wall-LB & RB side	1,950.00
21	10110.0	10140.0	30					Beck fill for R/wall-LB & RB side	3,900.00
22	11100.0	11275.0	175					Beck fill for R/wall-LB & RB side	22,750.00
23	11899.4	12049.4	150					Beck fill for R/wall-RB side	19,500.00
24	12200.0	12280.0	80					Beck fill for R/wall-RB side	10,400.00
25	12285.0	12315.0	30					Beck fill for R/wall-LB & RB side	3,900.00
26	12724.0	12809.0	85					Beck fill for R/wall-RB side	11,050.00
27	12832.5	13052.5	220					Beck fill for R/wall-RB side	28,600.00
28	14504.5	14565.5	61					Beck fill for R/wall-LB & RB side	7,930.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (7/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan if any	Estimated cost required (Rs.)
1	14.97km.	15.00km.	30m	9.1975	6.0m	1.25m			100,000.00
2	16.494km.	16.514km.	50m	9.1975	9.50m	2.20m			300,000.00
3	17.559km.	17.609km.	50m	9.1975	10m	3.45m			300,000.00
4	18.654km.	18.699km.	45m	9.1975	9.75m	3.85m			300,000.00
5	19.523km.	19.583km.	60m	9.1975	11.00m	3.35m			400,000.00
6	20.448km.	20.508km.	60m	9.1975	10.35m	3.30m			400,000.00
7	21.960km.	22.010km.	50m	9.1975	10.20m	3.10m			300,000.00
8	22.996km.	23.026km.	30m	9.1975	9.80m	3.45m			200,000.00
9	23.697km.	23.732km.	35m	9.1975	9.77m	3.65m			200,000.00
10	25.542km.	25.572km.	30m	9.1975	10.02m	3.70m			200,000.00
11	27.125km.	27.165km.	40m	9.1975	10.06m	3.70m			260,000.00
12	27.745km.	27.785km.	40m	9.1975	9.38m	3.62m			260,000.00
13	29.026km.	29.056km.	30m	9.1975	9.60m	3.70m			200,000.00
14	14.97km.	30.226km.	1.526km	9.1975	9.50m	3.60m		Gravelling of chl . bund road	2,380,000.00
			3,976						6,316,940.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (8/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	100.8	Prop. Retaining wall	250lm	Yes							Prop New R/wall	687,500.00
2	225.0	Prop. Bathing spot	0.1No.	Yes								30,000.00
3	375.0	Prop. Bathing spot	0.1No.	Yes								30,000.00
4	406.0	Prop. New Bridge		Yes								700,000.00
5	400.0	Prop. N. Retaining wall	2.70lm	Yes							Prop New R/wall L.B	742,500.00
6	425.0	Prop. Bathing spot	0.1No.	Yes							New Bathing spot	25,000.00
7	500.0	Prop. Bathing spot	0.1No.	Yes							New Bathing spot	25,000.00
8	550.0	Prop. Bathing spot	0.1No.	Yes							New Bathing spot	25,000.00
9	600.0	Prop. Bathing spot	0.1No.	Yes							New Bathing spot	25,000.00
10	420.0	Prop. Bridge	0.1No.	Yes								700,000.00
11	600.0	Prop. Retaining wall	50lm	Yes							New R/wall -RB	137,500.00
12	600.0	Prop. Bridge	0.1No.	Yes							New Bridge	70,000.00
13	717.0	Prop. Retaining wall	383lm	Yes							New R/wall -RB	1,053,250.00
14	725.0	Prop. Bathing spot	0.1No.	Yes							New Bathing spot	30,000.00
15	900.0	Prop. Retaining wall	200lm	Yes							New R/wall -RB	550,000.00
16	870.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00
17	925.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (9/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
18	1115.0	Prop. Retaining wall	247lm	Yes							New R/wall -LB & RB	2,717,000.00
19	1444.0	Prop. Retaining wall	55lm	Yes							New R/wall -LB & RB	605,000.00
20	1620.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00
21	1670.0	Prop. Bathing spot		Yes							-do-	25,000.00
22	1725.0	Prop. Bathing spot		Yes							-do-	25,000.00
23	2600.0	Prop. Retaining wall	200lm	Yes							New R/wall -LB	550,000.00
24	2720.0	Prop. Bridge		Yes							New Bridge	700,000.00
25	3886.4	Prop. Retaining wall	225lm	Yes							New R/wall -LB&RB	1,237,500.00
26	4580.0	Prop. Retaining wall	185lm	Yes							New R/wall -LB&RB	1,017,500.00
27	4590.0	Prop. Bridge		Yes							New Bridge	700,000.00
28	5750.0	Prop. Retaining wall	150lm	Yes							New R/wall -LB&RB	825,000.00
29	5875.0	Prop. Bridge		Yes							New Bridge	700,000.00
30	6150.0	Prop. Bridge		Yes							New Bridge	700,000.00
31	6625.0	Prop. Retaining wall	75lm	Yes							New R/wall- LB&RB	412,500.00
32	6745.0	Prop. Retaining wall	355lm	Yes							New R/wall -LB&RB	1,952,500.00
33	6750.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00
34	6800.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (10/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
35	6900.0	Prop. Bathing spot		Yes							New Bathing spot	25,000.00
36	7275.0	Prop. Bridge		Yes							New Bridge	700,000.00
37	7275.0	Prop. R/wall U/S & D/S	30lm	Yes							New R/wall -LB&RB	165,000.00
38	7550.0	Prop. Retaining wall	150lm	Yes							New R/wall -LB&RB	825,000.00
39	7853.8	Prop. Bridge		Yes							New Bridge	700,000.00
40	7833.8	Prop. R/wall U/S & D/S	55lm								New R/wall -LB&RB	302,500.00
41	7890.0	Prop. Retaining wall	30lm								New R/wall -LB&RB	165,000.00
42	8000.0	Prop. Retaining wall	160lm								New R/wall -RB	440,000.00
43	8140.0	Prop. Retaining wall	60lm								New R/wall -LB	165,000.00
44	8210.0	Prop. Retaining wall	15lm								New R/wall -LB&RB	82,500.00
45	8215.0	Prop. Bathing spot	2Nos.								New Bathing spot LB&RB	50,000.00
46	9540.0	Prop. Bridge									New Bridge	70,000.00
47	10110.0	Prop. Bridge									New Bridge	700,000.00
48	10110.0	Prop. R/wall U/S & D/S	30lm								New R/wall -LB&RB	165,000.00
49	11100.0	Prop. Retaining wall	175lm								New R/wall -LB&RB	962,500.00
50	11899.4	Prop. Retaining wall	150lm								New R/wall -RB	412,500.00
51	12.2	Prop. Retaining wall	80lm								New R/wall -RB	220,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (11/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
52	12.3	Prop. Bridge									New Bridge	700,000.00
53	12285.0	Prop. Retaining wall	30lm								New R/wall -LB&RB	165,000.00
54	12724.0	Prop. Retaining wall	85lm								New R/wall -RB	233,750.00
55	12832.5	Prop. Retaining wall	220lm								New R/wall -RB	605,000.00
56	14504.5	Prop. Retaining wall	61lm								New R/wall -LB&RB	335,500.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (12/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	14.90km.	Bridge(10mx3m)		Yes							Hand raits	10,000.00
2	14.95km.	Measuring device (new)		Yes								500,000.00
3	14.97km.	R/wall (12m-L)		No								
4	15.00km.	Bolders packing (new)		Yes								100,000.00
5	15.70km.	Gated Tumout	01 18'dia	Yes			x		x			25,000.00
6	15.71km.	Bridge(11.10mx3.0m)		No	x							
7	16.410km.	Gated Tumout	01 18'dia	Yes			x		x			15,000.00
8		Cum Bridge		Yes					x			5,000.00
9	16.499km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,100,000.00
10	16.550km.	Gated Tumout	01 12" dia	Yes	x				x			15,000.00
11	17.533km.	Gated Tumout	01 18'dia	Yes			x		x			30,000.00
12	17.559km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,100,000.00
13	17.676km.	Cross Regulator(old)		No								
14	17.888km.	Bridge Tumout		Yes					x			20,000.00
15	18.641km.	Gated Tumout	01 18'dia	Yes			x		x			30,000.00
16	18.650km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,200,000.00
17	18.850km.	Chl. Spill		Yes			x		x			55,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (13/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
18		Cum Bridge		Yes					x			15,000.00
19	18.936km.	Chl. Spill		Yes			x		x			30,000.00
20	19.200km.	Gated Tumout	01 24"dia	Yes			x		x			25,000.00
21	19.212km.	Bridge (7.55mx3.30m)		Yes					x			20,000.00
22	19.503km.	Gated Tumout	01 24"dia	Yes					x			40,000.00
23	19.523km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,500,000.00
24	20.245km.	Gated Tumout	01 12" dia	Yes			x		x			25,000.00
25	20.448km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,200,000.00
26	20.967km.	Gated Tumout	01 24"dia	Yes			x		x			25,000.00
27		Cum Bridge		Yes					x			20,000.00
28	21.909km.	Gated Tumout	01 12"dia	Yes			x			x		200,000.00
29	21.960km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,300,000.00
30	22.00km.	Bridge (10.55mx3.0m)		Yes					x			10,000.00
31	22.900km.	Gated Tumout	01 12"dia	Yes			x			x		200,000.00
32	22.946km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,200,000.00
33	23.557km.	Gated Tumout	01 9"dia	Yes			x		x			20,000.00
34	23.622km.	Gated Tumout	01 12"dia	Yes			x		x			25,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (14/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
35		Cum Bridge		Yes					x			10,000.00
36	23.622km.	Bridge-Railway Track		No								
37	23.697km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,100,000.00
38	23.841km.	Bridge-main road	(20.80mx7.60m)	Yes					x			50,000.00
39	24.100km.	Gated Tumout	01 12"dia	Yes			x		x			20,000.00
40	24.573km.	Foot Beidge (4mx29.60m)		Yes					x			10,000.00
41	25.527km.	Gated Tumout	01 18"dia	Yes			x		x			25,000.00
42	25.542km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,100,000.00
43	26.669km.	Bridge(17.30mx3.95m)		No								
44	26.730km.	Bridge		No								
45	27.079km.	Gated Tumout	01 30" dia	No								
46	27.083km.	Bridge(19.10mx4.60m)		No								
47	27.125km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,000,000.00
48	27.455km.	Gated Tumout	12" dai	Yes			x		x			30,000.00
49		Cum Bridge chl .spill		Yes			x		x			50,000.00
50	27.722km.	Gated Tumout	01 18" dia	Yes			x		x			40,000.00
51	27.745km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			985,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (15/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
52	29.017km.	Gated Tumout	01 24" dia	Yes			x		x			20,000.00
53	29.026km.	Cross Regulator	04 (5'-0x3'-0)	Yes			x		x			1,000,000.00
54	29.035km.	old Reguletor		No								
55	29.226km.	Bridge(13.60mx4.80m)		No								
56	30.226km.	Culvert across the		No								
57		Main road		No								
												40,812,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (16/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0.000	10.500	10.500					Desilting the main Canal	1,000,000.00
2	0.000	10.500	10.500					Gravelling the main Canal bund road where necessary	500,000.00
3	2+0.340							Removing the impurities on the water spread area at Madawalagama Tank	1,000,000.00
4	End of							ditto, Kaluwila wewa	1,000,000.00
5	main chl.							ditto, Nalubewa Tank	1,000,000.00
									4,500,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (17/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	0.000	L.L. Main Sluice		No								
2	0.007	RB R/W	23m length	Yes					x		To be raised by 0.5m (L=23m)	20,000.00
3	0.157	Regulator	4'x4' doors, 4nos.	Yes			x				Replace with steel gates	60,000.00
4	0.161	RB R/W	13m length	Yes						x	Demolish and re-construct	50,000.00
5	0.173	Foot Bridge	1m width	Yes					x			10,000.00
6	0.173~0.222	Canal Section	L=49m x B=3.3m	Yes					x		Sill to be provided	110,000.00
7	0.222	Bridge		Yes					x			5,000.00
8	0.224	RB R/W	8.55m length	Yes					x		To be replastered 8.55m length, 0.75m Av. height	100,000.00
9	0.359	LLD-1 Sluice	2 nos./ 0.45m dia.	Yes					x			4,000.00
10	0.775	LLD-1A Sluice	0.38m dia.	Yes					x			4,000.00
11	0.781	Bridge	2/1.85x1.3m, opening	Yes					x			10,000.00
12	0.961	R/W	125m length, 1.5m Av. Height	Yes							New construction	350,000.00
13	1+0.096	LLD-2	0.457m dia.	No								
14	1+0.096~0.140	R/W	Av. 0.5m to be plastered	Yes					x		Plastering	10,000.00
15	1+0.139	Regulator	1.1mx1.1m, opening 3nos	Yes			x		x		Gates to be replaced with steel, D/S stilling	100,000.00
16	1+0.200	Foot Bridge	13m length	Yes						x	Replacement	100,000.00
17	1+0.747	R/W	24m length	Yes					x		To be plastered	4,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (18/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
18	1+0.791	Bridge		Yes					x			13,000.00
19	2+0.140	Regulator	8m width	Yes							New regulator to be provided	300,000.00
20	2+0.312	Bridge		Yes					x		Abutment 1 no 3.2m slab to be re-provided	50,000.00
21	2+0.340	Madawalagama Tank Spill		No								
22	2+0.527	Sluice-do-		Yes					x			2,000.00
23	2+0.340~0.930	Rip rap to be increased (height)	590m length	Yes							Rip rap height to be increased	2,000,000.00
24	2+0.998	Regulator	1.1mx1.1m, opening 2nos	Yes			x				Replace of gates, rubble pitching	50,000.00
25		Providing Bathing spot-2Nos.									New	80,000.00
26	3+0.100	Providing R/W	17m.long								New(17m length)	65,000.00
27	3+0.123	Bridge	5.2m.x2m	No								
28	3+0.717	LLD-4	0.457dia	No								
29	3+0.797	Common bridge Temporary	10m.long	Yes						x		80,000.00
30	3+0.9735	Bridge								x		4,000.00
31		Providing B/Spots									New	30,000.00
32	4+0.7151	LLD-5	0.38 dia	Yes						x		2,000.00
33	4+0.8238	Regulator	1.1x1.1m	Yes						x		20,000.00
34	4+0.845	Proposed R/W	30m.long								New in RB side (30m)	110,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (19/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
35	4+0.896	LLD-6	2/0.457 dia	No								
36	5+0.050	RNV(30m)tobe provided	30m.long								No	110,000.00
37	5+0.078	LLD-6A	0.3m.dia	No								
38	5+0.090	Regulator	1.1x1.1-3Nos								Gales to be replaced with steel gates -D/S Pitching-Providing	160,000.00
39	5+000	15m R/W to be provided	15m. long								New	55,000.00
40	5+0.310	-do (RB side)									New	55,000.00
41	5+0.325	Course way									Concrete lining to be done	90,000.00
42	5+0.4872	Bridge							x			2,000.00
43	5+0.500	Kaluwila wewa										
44	6+0.0369	LLD-6B	0.3 dia									
45	6+0.184	Regulator	1.1x1.1m	Yes							D/S, R/W to be reconstructed	150,000.00
46	5+0.500 to 6+0.1800	Rip-rap		Yes					x		Te be increased the rip-rap height	2,000,000.00
47	6+0.200to 6+0.350	Gabion wall to be Provided in RB	150m.length									300,000.00
48	6+0.600	LLD-6C	0.3dia	Yes								3,000.00
49	7+0.3892	LLD-8	0.45dia	No								
50	7+0.350	R.pitching to be done in RB									New	70,000.00
51	7+0.4165	Regulator	1.1x1.1m.	Yes							Gates to be replaced with steel. U/S ,D/S R-pitching to be	100,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (20/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
52	7+0.7815	LLD-8A	0.3dia	Yes		x					Door to be replaced	10,000.00
53	7+0.7815	Level crossing to be provided	8m. Width								New	75,000.00
54	7+950	Bridge		No								
55	7+950	Bathing spot to be provided										40,000.00
56	8+2391	LLD-8B	0.3dia	No								
57	8+2695	Regulator		Yes					x		Rubble pitching	50,000.00
58	8+0.282	Gabion wall to be Provided in RB									New	60,000.00
59	8+0.454	Bridge		No								
60	8+0.270	Bathing spot to be provided									New	30,000.00
61	8+0.773	LLD-8C				x					Door to be provided	10,000.00
62	8+0.8714	F/Bridge		Yes								
63	9+0.0224	LLD-8E	0.3dia								Level crossing to be provided (Regulator)	60,000.00
64	9+0.178	F/Bridge		No								
65	9+0.411	LLD-9	2/0.45dia						x		R/W in both side to be provided	50,000.00
66	9+0.463	R/W to be provided	50m.long								50m long R/W to be demolish & reconstruction both side	200,000.00
67	9+0.512	Regulator							x		R.pitching to be re-bone	25,000.00
68	9+0.8786	LLD-9A	0.3dia	No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (21/59)

Name of Scheme : Nachchaduwa

Name of Canal : Low Level Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
69	10+0.0176	Bridge		Yes					x		D/S R/W to be constructed	60,000.00
70	10+0.0884	LLD-10	0.457dia	No								
71	10+0.122	LLD-10A	0.3dia	No								
72	10+0.214	LLD-10B	0.3dia	No								
73	10+0.215	Regulator	1.1x1.1m-2Nos.	Yes					x		R.pitching to be done	30,000.00
74	10+0.3727	LLD-10C	0.3dia	No								
75		LLD-10D	0.3dia	No								
76	10+0.484	LLD-10E	0.3dia	No								
77	10+0.5823	LLD-11	0.45dia	No								
78	10+0.598	LLD-11A	0.3dia	No								
79	10+0.6116	Regulator							x			2,000.00
80	10+611 to 11+0.60	R/W in both side reconstruction	450m.lemgth	Yes							450m length (both side)	2,300,000.00
81											7Nos. Crossing to be provided	70,000.00
82		70 nos. foot bridge to be provided										10,500,000.00
												20,410,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (22/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	HLD4								286,489.00
	HLD5								10,000.00
	HLD7								129,835.00
	HLD11								10,500.00
	HLD12								25,500.00
	HLD15								14,000.00
	HLD17								7,000.00
	HLD19								225,000.00
	HLD21								210,000.00
	HLD26								800,000.00
	HLD27								473,000.00
	HLD35								820,000.00
	HLD36								500,000.00
	HLD36A								200,000.00
									3,711,324.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (23/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	HLD4								
1	0.000	795.000	795.000	0.07	0.8	Varing	Varing	Earth work for chl bund & road	246,159.00
2	0.000	795.000						Gravelling a1long chl road	40,330.00
									286,489.00
	HLD5								
1	61.000	144.000	83.000	0.06	1	Varing	Varing	Earth work for chl bund filling	10,000.00
									10,000.00
	HLD7								
1	1500.000	1767	267.000	0.12	1	Varing	Varing	Chl. road - Earth work	104,490.00
2	1500.000	1876	376.000					Chl. road - Gravalling	25,345.00
									129,835.00
	HLD11								
1	70.000	224	154.000	0.05	1	Varing	Varing	Gravelling along D/chl. road	10,500.00
									10,500.00
	HLD12								
1	374.300	550.3	176.000	0.07	1	Varing	Varing	Eaeth work - chl bund foming	25,500.00
									25,500.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (24/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	HLD15								
1	0.000	65	65.000						
2	65.000	92	27.000					Eaeth work - chl bund foming	14,000.00
									14,000.00
	HLD17								
1	0.000	21	21.000		0.8	0.6	Verticle	Back fillong - Earth work	7,000.00
									7,000.00
	HLD19								
1	0.0km.	0.095km.	95.000	0.105	0.9	0.43	Verticle		25,000.00
2	0.095km.	0.160km.	65.000	0.0566	1	0.48	Verticle		20,000.00
3	0.160km.	0.260km.	100.000	0.0368	0.5	0.53	Verticle		30,000.00
4	0.0km.	0.825km.	8.250					Filling pot hples & gravelling along the chl. road	150,000.00
									225,000.00
	HLD21								
1	0.0km.	0.515m.	515.000	0.0849	0.8	0.41	Verticle		60,000.00
2	0.515km.	0.70km.	185.000	0.0566	0.9	0.4	Verticle		25,000.00
3	0.00km.	0.70km.	700.000					Filling pot hples & gravelling along the chl. bund road	125,000.00
									210,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (25/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	HLD26								
1	0.0km.	0.675km.	675.000	0.1785	1.15	0.6	Verticle		100,000.00
2	0.675km.	0.850km.	175.000	0.1644	1.1	0.6	Verticle		40,000.00
3	0.850km.	1.360km.	510.000	0.1301	0.85	0.5	Verticle		190,000.00
4	1.360km.	1.760km.	400.000	0.1301	0.76	0.8	Verticle	Formed chl section	95,000.00
5	1.760km.	0.025kn.	265.000	0.0987	0.76	0.5	Verticle		25,000.00
6	0.0km.	2.025km.	205.000					Filling pot hples & gravelling along the chl. road	350,000.00
									800,000.00
	HLD27								
1	0.0km.	1.275km.	1275.000	0.1944	1.05	0.65	Verticle		100,000.00
2	1.275km.	1.410km.	125.000	0.1814	1.05	0.6	Verticle		10,000.00
3	1.410km.	1.680km.	270.000	0.1406	0.85	0.5	Verticle		18,000.00
4	1.680km.	1.825km.	145.000	0.0857	0.70	0.46	Verticle		10,000.00
5	1.825km.	1.961km.	136.000	0.0566	0.52	0.4	Verticle		10,000.00
6	0.0km.	1.961km.	1961.000					Filling pot hples & gravelling along the chl. road	325,000.00
									473,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (26/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	HLD35								
1	0.725km.	1.725km.	1000.000	0.0766	0.8	1.6	Verticle		115,000.00
2	1.752km.	1.970km.	910.000	0.0766	0.8	1.5	Verticle		110,000.00
3	1.910km.	2.555km.	645.000	0.0396	0.9	1.43	Verticle		75,000.00
4	2.555km.	2.698km.	143.000	0.0198	0.9	1.5	Verticle		20,000.00
5	0.276km.	2.698km.	2422.000					Filling pot hples & gravelling on chl. road	500,000.00
									820,000.00
	HLD36								
1	0.0km.	0.046km.	46.000	0.2566	0.91	698		R/Wall section	60,000.00
2	0.046km.	0.186km.	140.000	0.2385	1	0.65	Verticle		25,000.00
3	0.186km.	0.40km.	214.000	0.1049	0.8	0.5	Verticle		50,000.00
4	0.40km.	1.661km.	661.000	0.0481	0.457	0.43	Verticle	Formed chl. section	190,000.00
5	0.0km.	1.061km.	1,061.000					Filling pot hples & gravelling on chl. road	175,000.00
									500,000.00
	HLD36A								
1	0.0km.	0.255km.	255.000	0.1132	0.9	0.5	Verticle		55,000.00
2	0.255km.	0.63km.	376.000	0.0707	0.762	0.457	Verticle		45,000.00
3	0.0km.	0.631km.	631.000					Filling pot hples & gravelling along the chl. road	100,000.00
									200,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (27/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	HLD4											2,461,185.00
	HLD5											344,450.00
	HLD7											7,628,695.00
	HLD11											370,800.00
	HLD12											1,328,700.00
	HLD15											111,000.00
	HLD17											50,000.00
	HLD19											825,000.00
	HLD21											2,300,000.00
	HLD26											9,250,000.00
	HLD27											8,725,000.00
	HLD35											11,100,000.00
	HLD36											5,850,000.00
	HLD36A											3,200,000.00
												53,544,830.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (28/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	HLD4											
1	32.900	Concrete lining	269.9lm	Yes							Prop. cement conc. lining	1,389,985.00
2	528.400	Concrete lining	44lm	Yes							Prop. cement conc. lining	226,600.00
3	577.400	Concrete lining	115lm	Yes							Prop. cement conc. lining	473,800.00
4	695.000	Concrete lining	19lm	Yes							Prop. cement conc. lining	78,280.00
5	717.000	Concrete lining	65lm	Yes							Prop. cement conc. lining	267,800.00
6	785.000	Concrete lining	6lm	Yes							Prop. cement conc. lining	24,720.00
			Σ L＝519m									2,461,185.00
	HLD5											
1	61.000	Concrete lining	83lm	Yes							Prop. cement conc. lining	344,450.00
												344,450.00
	HLD7											
1	65.900	Concrete lining	204.1lm	Yes							Prop. cement conc. lining	1,051,115.00
2	282.000	Concrete lining	181lm	Yes							Prop. cement conc. lining	982,665.00
3	484.000	Concrete lining	80.8lm	Yes							Prop. cement conc. lining	416,120.00
4	574.800	Concrete lining	252.2lm	Yes							Prop. cement conc. lining	1,298,830.00
5	840.000	Concrete lining	606.2lm	Yes							Prop. cement conc. lining	3,121,930.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (29/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
6	1500.700	Concrete lining	29.3lm	Yes							Prop. cement conc. lining	150,895.00
7	1563.400	Concrete lining	39.9lm	Yes							Prop. cement conc. lining	205,485.00
8	1633.300	Concrete lining	46.7lm	Yes							Prop. cement conc. lining	240,505.00
9	1761.000	Concrete lining	6lm	Yes							Prop. cement conc. lining	30,900.00
10	1816.000	Concrete lining	35lm	Yes							Prop. cement conc. lining	130,250.00
												7,628,695.00
	HLD11											
1	134.700	Concrete lining	90lm	Yes							Prop. cement conc. lining	370,800.00
												370,800.00
	HLD12											
1	25.500	Concrete lining	68.5lm	Yes							Prop. cement conc. lining	282,220.00
2	97.500	Concrete lining	73.5lm	Yes							Prop. cement conc. lining	302,820.00
3	189.000	Concrete lining	45lm	Yes							Prop. cement conc. lining	185,400.00
4	249.000	Concrete lining	50lm	Yes							Prop. cement conc. lining	206,000.00
5	316.000	Concrete lining	52lm	Yes							Prop. cement conc. lining	214,240.00
6	414.800	Concrete lining	33.5lm	Yes							Prop. cement conc. lining	138,020.00
												1,328,700.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (30/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	HLD15											
1	0.000	T/O-D/S structure										
2	86.000	T/O structure	0.1No. 0.3m dia				x		x		Chl. gate with other parts	15,000.00
3	92.000	T/O structure	0.1No. 0.3m dia				x		x		-do-	15,000.00
4	65.000	Proposed R/Wall	2lmx2								New R/Wall	81,000.00
												111,000.00
	HLD17											
1	0.000	R/Wall	211m						x		1:3:6 ct. cone. chl. bed & replasteting	20,000.00
2	2.100	T/O structure	01No. 0.3m dia				x		x		Chl. gates with all other parts	15,000.00
3		T/O structure	01No. 0.3m dia				x		x		-do-	15,000.00
												50,000.00
	HLD19											
1	0.045km.	Drop structure (0.350m)							x			5,000.00
2	0.457km.	Road Crossing	0.65m dia x 7.4m	Yes							Main Road	
3	0.462km.	Retaining wall		No					x			13,000.00
4	0.096km.	Gated Turnout	01 12"	Yes		x			x			20,000.00
5	0.123km.	Drop structure (0.6m)		Yes					x			6,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (31/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
6	0.160km.	Gated Turnout	01 12"	Yes			x		x			35,000.00
7	0.175km.	Drop structure(0.905m)		Yes					x			8,000.00
8	0.25km.	R/Wall L- 6.10m		Yes					x			5,000.00
9	0.253km.	Gated Turnout	01 12"	Yes			x		x			25,000.00
10	0.260km.	Drop structure(0.90m)		Yes					x			8,000.00
11	0.0km- 0.095km.	Chl lining (new)		Yes							0.015m3/s	175,000.00
12	0.095km- 0.160km.	Chl lining (new)		Yes							0.0566m3/s	225,000.00
13	0.166km- 0.260km.	Chl lining (new)		Yes							0.0368m3/s	300,000.00
												825,000.00
	HLD21											
1	0.0km.	Gated Turnout	01 24" dia	Yes		x			x			15,000.00
2	0.025km.	Drop structure(0.20m)		Yes					x			8,000.00
3	0.20km.	Drop structure(0.305m)		Yes					x			8,000.00
4	0.22km.	Gated Turnout	01 9" dia	Yes			x		x			30,000.00
5	0.40km.	Drop structure(0.305m)		Yes					x			8,000.00
6	0.487km.	H.P.Culvert(600mdia x 7.4)		Yes					x			6,000.00
7	0.508km.	Gated Turnout	01 9" dia	Yes		x			x			15,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (32/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
8	0.515km.	Drop structure(0.305m)		Yes					x			10,000.00
9	0.60km.	Drop structure(0.305m)		Yes					x			12,000.00
10	0.627km.	Gated Turnout	01 12"	Yes			x		x			35,000.00
11	0.650km.	Drop structure(0.610m)		Yes					x			8,000.00
12	0.70km.	Gated Turnout	01 12"	Yes			x		x			35,000.00
13	0.0km-0.515km.	Chl. Lining (new)		Yes							0.0849m3/s	1,460,000.00
14	0.515km-0.70km.	Chl. Lining (new)		Yes							0.0566m3/s	650,000.00
												2,300,000.00
	HLD26											
1	0.425km.	Drop structure(0.305m)		Yes				x				6,000.00
2	0.610km.	R/Wall 40m L		Yes				x				10,000.00
3	0.656km.	Road crossing 6.10m x 0.95m		Yes				x				10,000.00
4	0.675km.	Gated Turnout	01 12" dia	Yes		x		x				12,000.00
5	0.725km.	Drop structure(0.305m)		Yes				x				5,000.00
6	0.796km.	Gated Turnout	01 12" dia	Yes		x		x				10,000.00
7	0.847km.	Gated Turnout	01 12" dia	Yes			x	x				35,000.00
8	0.842km.	Concrete lining 20.0m		Yes				x				20,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (33/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
9	0.890km.	Road crossing 1.20m x 9.20m		Yes				x				10,000.00
10	0.90km.	Drop structure(1.279m)		Yes				x				15,000.00
11	0.948km.	R/Wall (L-124m)		Yes				x				10,000.00
12	1.0km.	Drop structure (0.61m)		Yes				x				8,000.00
13	1.005km.	Gated Turnout	01 12" dia	Yes			x	x				35,000.00
14	1.050km.	Drop structure (0.305m)		Yes				x				8,000.00
15	1.150km.	Drop structure (0.305m)		Yes				x				6,000.00
16	1.158km.	Gated Turnout	01 12" dia	Yes		x		x				12,000.00
17	1.225km.	Drop structure (0.305m)		Yes				x				6,000.00
18	1.283km.	Drop structure (0.61m)		Yes		x		x				8,000.00
19	1.295km.	Gated Turnout	01 12" dia	Yes				x				15,000.00
20	1.325km.	Drop structure (0.305m)		Yes				x				6,000.00
21	1.360km.	Gated Turnout	01 12" dia	Yes			x	x				20,000.00
22	1.372km.	R/Wall (20m x L)		Yes					x			15,000.00
23	1.375km.	Gated Turnout	01 12" dia	Yes		x			x			22,000.00
24	1.375km.	Drop structure (0.914m)		Yes					x			8,000.00
25	1.450km.	Drop structure (0.61m)		Yes					x			6,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (34/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
26	1.497km.	Drop structure (1.219m)		Yes					x			12,000.00
27	1.550km.	Drop structure (0.914m)		Yes					x			8,000.00
28	1.650km.	Drop structure (0.61m)		Yes					x			6,000.00
29	1.722km.	Gated Turnout	01 12" dia	Yes		x			x			12,000.00
30	1.750km.	Drop structure (0.305m)		Yes					x			6,000.00
31	1.7829km.	Gated Turnout	01 12" dia	Yes			x		x			30,000.00
32	1.825km.	Drop structure (0.305m)		Yes					x			6,000.00
33	1.956km.	Gated Turnout	01 12" dia	Yes			x		x			30,000.00
34	2.025km.	Drop structure		Yes					x			8,000.00
35	1.360km. to 176km.	Formed canal		Yes							Formed chl sec.	800,000.00
36	0.0km. to 0.85km.	Chl. Lining (new)		Yes							0.1785m3/s	3,700,000.00
37	0.85km. to 1.76km.	Chl. Lining (new)		Yes							0.1301m3/s	3,300,000.00
38	1.76km. to 2.025km.	Chl. Lining (new)		Yes							0.0987m3/s	1,014,000.00
												9,250,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (35/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	HLD27											
1	0.0137km.	Gated Turnout	01 9" dia	Yes		x			x			15,000.00
2	0.025km.	Drop structure (0.305m)		Yes					x			6,000.00
3	0.0288km.	Cross Regulator	01 bay	Yes					x			3,000.00
4	0.218km.	Pipe out let	01 10cm	Yes					x			1,500.00
5	0.225km.	Cross Regulator	01 bay	Yes					x			3,000.00
6	0.375km.	Drop structure (0.305m)		Yes					x			5,000.00
7	0.375km.	Pipe out let	01 10cm	Yes					x			1,500.00
8	0.550km.	Drop structure (0.305m)		Yes					x			5,000.00
9	0.555km.	Pipe out let	01 20cm	Yes					x			2,000.00
10	0.782km.	Gated Turnout	01 9" dia	Yes			x		x			35,000.00
11	0.850km.	Drop structure (0.305m)		Yes					x			5,000.00
12	1.2275km.	Drop structure (0.305m)		Yes					x			5,000.00
13	1.276km.	Gated Turnout	01 9" dia	Yes		x			x			20,000.00
14	1.370km.	Box culvert(6m x 0.80m)		Yes					x			15,000.00
15	1.412km.	Gated Turnout	01 18" dia	Yes		x			x			15,000.00
16	1.50km.	Drop structure (0.305m)		Yes					x			3,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (36/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
17	1.57km.	Pipe out let	01 4" dia	Yes					x			1,500.00
18	1.684km.	Gated Turnout	01 20" dia	Yes		x			x			15,000.00
19	1.80km.	Drop structure		Yes					x			3,000.00
20	1.875km.	Gated Turnout	01 9" dia	Yes		x			x			15,000.00
21	1.825km.	Drop structure (0.305m)		Yes					x			3,000.00
22	1.961km.	Gated Turnout	01 9" dia	Yes			x		x			35,000.00
23	0.0km - 1.410km	Chl. Lining (new)		Yes							0.1944m3/s	6,200,000.00
24	1.410km - 1.680km	Chl. Lining (new)		Yes							0.1406km3/s	1,200,000.00
25	1.680km - 1.825km	Chl. Lining (new)		Yes							0.0857m3/s	600,000.00
26	1.825km - 1.961km	Chl. Lining (new)		Yes							0.0566m3/s	512,500.00
												8,725,000.00
	HLD35											
1	0.0km.	Gated Turnout	01 12" dia	Yes	x				x			15,000.00
2	0.037km.	Bridge across the rd.	8.20m x 0.80m dia	No								
3	0.070km.	Railways Crossing		No								
4	0.10km.	0.305m drop structure		Yes					x			10,000.00
5	0.131km.	Bridge (9m x 1.6m)		Yes					x			15,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (37/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
6	0.178km.	Box culvert		Yes					x			15,000.00
7	0.276km.	Road Crossing		Yes					x			5,000.00
8		Cum drop(0.305m)		Yes					x			16,000.00
9	0.392km.	Road Crossing(1.80m x 2.3m)		Yes					x			5,000.00
10	0.575km.	Drop structure(0.305m)		Yes					x			10,000.00
11	0.641km.	Gated Tumout(02)	02 24" dia	Yes	x				x			10,000.00
12	0.650km.	Drop structure(0.305m)		Yes					x			8,000.00
13	0.657km.	Culvert 3"-Odia. x 12'-02		Yes					x			5,000.00
14	0.70km.	Drop structure(0.305m)		Yes					x			10,000.00
15	0.725km.	Drop structure(0.305m)		Yes					x			6,000.00
16	0.800km.	Drop structure(0.610m)		Yes					x			6,000.00
17	0.825km.	Drop structure(0.914m)		Yes					x			5,000.00
18	0.925km.	Drop structure(0.914m)		Yes					x			16,000.00
19	1.025km.	Drop structure(0.305m)		Yes					x			5,000.00
20	1.225km.	Drop structure(0.305m)		Yes					x			6,000.00
21	1.375km.	Drop structure(0.305m)		Yes					x			10,000.00
22	1.850km.	Drop structure(0.610m)		Yes					x			6,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (38/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
23	1.934km.	Gated Turnout	01 12" dia	Yes		x			x			15,000.00
24	1.950km	Drop structure(0.305m)		Yes					x			10,000.00
25	2.166km.	Bridge Cum chl spill		Yes					x			20,000.00
26	2.230km.	Gated Turnout	01 12" dia	Yes			x		x			25,000.00
27	2.475km.	Drop structure		Yes					x			10,000.00
28	2.558km.	Gated Turnout	01 12" dia	No					x			
29	2.675km.	Drop structure		Yes					x			11,000.00
30	2.675km.	R/wall (183m)		Yes					x			25,000.00
31	0.0km - 0.064km	Chl. Lining (new)		Yes							0.0849m3/s	5,000,000.00
32	0.064km - 1.970km	Chl. Lining (new)		Yes							0.0766m3/s	4,500,000.00
33	1.970km - 2.698km	Chl. Lining (new)		Yes							0.0396m3/s	1,300,000.00
												11,100,000.00
	HLD36											
1	0.0km.	Gated Turnout	01 24" dia	Yes		x			x			15,000.00
2	0.002km.	Drop structure(0.83m)		Yes					x			5,000.00
3	0.046km.	Gated Turnout	01 12" dia	Yes		x			x			12,000.00
4	0.048km.	H.P.Culvert(0.95mdiax10cm)		Yes					x			5,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (39/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
5	0.148km.	R/Wall (10ml)		Yes					x			10,000.00
6	0.150km.	Gated Turnout	01 12" dia	Yes		x			x			10,000.00
7	0.1659km.	Drop structure(0.914m)		Yes					x			5,000.00
8	0.1868km.	Gated Turnout (HLD36)	01 12" dia	Yes		x			x			8,000.00
9	0.395km.	H.P.Culvert(0.6mdia.x4.8cm)		Yes					x			8,000.00
10	0.400km.	Gated Turnout	01 12" dia	Yes		x			x			8,000.00
11	0.405km.	Gated Turnout	01 12" dia	Yes		x			x			8,000.00
12	0.410km.	Pipe outlet	01 6" dia	Yes					x			5,000.00
13	0.5122km.	Pipe outlet	01 6" dia	Yes					x			3,000.00
14	0.5222km.	Pipe outlet	01 6" dia	Yes					x			3,000.00
15	0.770km.	Pipe outlet	01 6" dia	Yes					x			3,000.00
16	0.785km.	Pipe outlet	01 6" dia	Yes					x			3,000.00
17	0.750km.	Drop structure		Yes					x			5,000.00
18	0.7719km.	Pipe outlet	01 6" dia	Yes					x			2,000.00
19	0.8688km.	Pipe outlet	01 6" dia	Yes					x			2,000.00
20	0.929km.	Pipe outlet	01 6" dia	Yes					x			3,000.00
21	1.025km.	Drop structure(0.305m)		Yes					x			15,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (40/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
22	1.061km.	Drop structure(0.485m)		Yes					x			12,000.00
23	0.0km.- 0.186km	Chl. Lining (new)		Yes					x		0.0256m3/s	1,100,000.00
24	0.186km.- 0.40km	Chl. Lining (new)		Yes							0.1049m3/s	1,000,000.00
25	0.40km.- 1.66km	Chl. Lining (new)		Yes							0.0481m3/s	3,600,000.00
												5,850,000.00
	HLD36A											
1	0.065km.	Drop structure(0.914m)		Yes								5,000.00
2	0.017km.	Drop structure(0.61m)		Yes								5,000.00
3	0.1965km.	Railways Bridge		Yes								
4	0.2155km.	Box culvert(0.9m x 0.9m)		Yes								4,000.00
5	0.252km.	Gated Turnout	01 9" dia	Yes								10,000.00
6	0.288km.	Plank Regulator	01 bay	Yes								30,000.00
7	0.355km.	Ripe outlet	6"	Yes								2,000.00
8	0.400km.	Drop sturcture(0.305m)	4"	Yes								3,000.00
9	0.404km.	Pipe outlet	4"	Yes								2,000.00
10	0.479km.	Pipe outlet		Yes								2,000.00
11	0.556km.	Pipe outlet	01 4"	Yes								2,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (41/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
12	0.620km.	R/Wall 20ml		Yes								15,000.00
13	0.631km.	Ripe outlet	01 4"	Yes								2,000.00
14	0.0km- 0.225km.	Chl. Lining (new)		Yes							0.1132m3/s	1,318,000.00
15	0.225km- 0.631km.	Chl. Lining (new)		Yes							0.0707m3/s	1,800,000.00
												3,200,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (42/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	LLD1								174,000.00
	LLD1A								197,937.50
	LLD2								40,050.00
	LLD3A								1,350.00
	LLD4								215,000.00
	LLD6								170,000.00
	LLD8								50,000.00
	LLD9								75,000.00
	LLD10								40,000.00
	LLD11								100,000.00
	Nalubewa Centre Canal								75,000.00
									1,138,337.50

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (43/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	LLD1								
1	10.000	820	810.000	0.212	0.8	0.95	Varing	Earth work to be done edge or road & road surface	84,000.00
2	10.000	820	810.000					Gravelling the D-chl. road	90,000.00
									174,000.00
	LLD1A								
1	0.000	537.000	537.000	0.057	0.46	0.45	Varing	Right side to be filled	140,000.00
2			537.000					E/work in rosd surface	15,750.00
3			537.000					Gravelling the D-chl. raod	42,187.50
									197,937.50
	LLD2								
1	0.000	475	475.000	0.142	0.762			Gravelling to be done in D-chl. road	40,050.00
									40,050.00
	LLD3A								
1				0.051	0.45				
2									
3	0.000	15	Only gavelling to be done						1,350.00
									1,350.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (44/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	LLD4								
1	500.000	550	50.000	0.142	0.76			E/filling in large washed area	5,000.00
2	630.000	750	120.000	0.142	0.76			E/filling in LB bund	30,000.00
3	0.000	1245	1245.000	0.142	0.76			Gravelling the D-chl. bund road	180,000.00
									215,000.00
	LLD6								
1	0.000	1350	1,350.000	0.184	0.91	0.75		Granelling in D-chl. bund road	170,000.00
									170,000.00
	LLD8								
1	0.000	350	350.000	0.226	0.61	0.65		Granelling in D-chl. bund road	50,000.00
									50,000.00
	LLD9								
1	0.000	3000	3000.000	0.241 dia	1.06			De-silting the chl. bed	75,000.00
									75,000.00
	LLD10								
1	0.000	335	335.000	0.1425	0.762			Gravelling the D-chl. bund road	40,000.00
									40,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (45/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	LLD11								
1	0.000	748	748.000	0.113	0.76	0.5		Gravelling the D-chl. bund road	100,000.00
									100,000.00
	Nalubewa Centre Canal								
1	0.000	588	588.000	0.155	0.76			Gravelling the D-chl. road	75,000.00
									75,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (46/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	LLD1											2,954,000.00
	LLD1A											1,986,700.00
	LLD2											1,762,500.00
	LLD3A											48,800.00
	LLD4											4,643,560.00
	LLD5											89,800.00
	LLD6											5,994,900.00
	LLD7											637,000.00
	LLD8											1,335,000.00
	LLD9											7,519,000.00
	LLD10											1,153,000.00
	LLD11											3,076,600.00
	Nalubewa Centre Canal											2,272,800.00
												33,473,660.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (47/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	LLD1											
1		sluice Rectangular chl	2 No./0.45 dia. 0.8m x 0.95m.	Yes						x	Trapezoid chl (proposed)	2,916,000.00
2	13.200	C.P.O	0.3 dia	No	x			x				
3	300.000	C.P.O	0.3 dia	Yes		x			x			8,000.00
4	320.000	C.P.O	0.3 dia	Yes					x			1,000.00
5	331.000	C.P.O	0.3 dia	Yes					x			1,000.00
6	400.000	C.P.O	0.3 dia	Yes					x			1,000.00
7	650.000	C.P.O	0.3 dia	Yes		x			x			9,000.00
8	696.000	C.P.O	0.3 dia	Yes		x			x			9,000.00
9	781.000	C.P.O	0.3 dia	Yes		x			x			9,000.00
												2,954,000.00
	LLD1A											
1	0.000	C.P.O	1	No								
2	5.000	C.P.O to FC1	1" dia	No								
3		Drop		Yes					x		Minor repair - 2000 R/W section - 7500	9,500.00
4												

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (48/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
5	0-573m	Rectangular chl. section	0.5 x 0.45m						x		Trapezoid chl. Section (proposed)	1,933,200.00
6	263.700	Under crossing		Yes					x			2,000.00
7		Farm culvert to be provided (proposed)	1.2 x 0.6m	Yes								40,000.00
8	505.000	C.P.O	0.3 dia	Yes					x		Rod to be provided	2,000.00
9	537.000	C.P.O	0.3 dia	No								
												1,986,700.00
	LLD2											
1	0.000	sluice	0.46 dia	No								
2	5.000	C.P.O to FC1	0.3 dia	Yes		x			x			2,500.00
3		C.P.O to FC2	0.3 dia	Yes		x			x			11,000.00
4	11.000	Drop	0.9 dia	No								
5												
6												
7	182.000	Rectangular chl. sec	0.75 x 0.5m	Yes							To be demolish	10,000.00
8												
9	188.800	C.P.O LB	0.3 dia	No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (49/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
10		C.P.O RB	0.3 dia	No								
11	391.500	C.P.O	0.3 dia	Yes		x			x		Door to be provided	13,000.00
12	475.000	C.P.O	0.3 dia	Yes		x			x		- do -	12,000.00
13	10 to 475	Trapezoid chl. (prop.)										1,674,000.00
14		Tractor crossing to be provided	1.2m x 0.6m									40,000.00
												1,762,500.00
	LLD3A											
1	0.000	Sluice	0.38 dia	Yes					x			2,000.00
2	15.000	C.P.O	0.3 dia									
3												
4	0 to 13	Trapezium chl.										46,800.00
	section to be provided											48,800.00
	LLD4											
1	0.000	Sluice	0.457 dia	No								
2	18.000	C.P.O	0.3 dia	Yes			x				Gate to be provided	10,000.00
3	23.000	C.P.O	0.3 dia	Yes			x				Gate to be provided	10,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (50/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
4	30.000	Regulator	1.95 x 0.7m.	Yes			x					20,000.00
5				Yes								
6	18.000	C.P.O	0.3 dia	Yes			x				Gate to be provided	10,000.00
7	248.000	Drop	0.8m.	Yes							E/W to be provided in D/S of drop	20,000.00
8	260.000	Drop	0.336m.	No								
9	264.000	Tractor crossing							x		slab to be provided	10,000.00
10	507.000	Over crossing										
11	507-507	Re-plastering the inner surface of R/W chl sec	0.9 x 0.4m.									7,560.00
12	570.000	Tractor crossing		No								
13	630.000	C.P.O 2Nos.	0.3 dia				x				Gates (1' dia)to be provided 2 Nos.	20,000.00
14	707.000	C.P.O	0.3 dia				x				- do - 1No	10,000.00
15	715.000	Regulator (proposed)	0.6m. Width								New regulator proposed	40,000.00
16	960.000	Tractor crossing		No								
17	1156.000	C.P.O	0.3 dia				x				Gate to be provided	10,000.00
18	1135-1245	R/W	0.9 x 0.4m.								to be removed	10,000.00
19	10-1245	Trapezoid chl. Section to be									plastered	4,446,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (51/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
20	1245.000	2No.gates (0.3 dia to be provided)										20,000.00
												4,643,560.00
	LLD5											
1	0.000	Sluice	0.38 dia	Yes								5,000.00
2		Trapezoid chl. section to be provided										64,800.00
3		FC1 & FC2	0.3 dia - 2Nos.	Yes			x				Gates to be provided	20,000.00
												89,800.00
	LLD6											
1	0.000	Sluice	2/0.46 dia	Yes					x			2,000.00
2	18.500	C.P.O	0.3 dia						x		D/S rubble pitching to be done	24,000.00
3	25-262	RB side of bund to be repaired	237m. long	Yes							E/W & rubble pitching to be done	563,250.00
4	25.000	Drop									D/S to be improved	5,000.00
5	284.000	R/W		No								
6	264-284	R/W to be provided in RB side	0.75m. height									27,000.00
7	228.000	C.P.O LB	0.3 dia	No								
8	228.000	C.P.O RB	0.3 dia	No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (52/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
9	235.000	Tractor crossing		No								
10	242.000	Drop		Yes					x		Rubble pitching	86,500.00
11	305.000	Drop		Yes					x		R/W section	25,000.00
12	338.000	Drop		Yes					x			3,000.00
13	400.000	Drop		Yes					x			5,000.00
14	535.000	Over crossing-Drop	0.45m	No								
15	530-622	R/W	0.6 x 0.75m									77,500.00
16	622.000	C.P.O.	0.3 dia	Yes			x					10,000.00
17	650.000	Farm crossing	1.2 x 0.6m.						x			1,000.00
18	735.000	C.P.O.	0.3 dia						x		Rod to be provided	2,000.00
19	622-735	Chi. section	to be provided									126,700.00
20	735.000	Tractor crossing	to be provided									40,000.00
21	741.000	Drop							x		Rubble pitching to be done	20,000.00
22	900.000	C.P.O	0.3 dia			x					door to be provided	10,000.00
23	941-1056.5	R/W								x	To be demolish	15,000.00
24	1050.000	C.P.O	0.3 dia				x				door to be provided	10,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (53/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
25	1056-1259	conc. chl.									inner surface to be plastered	15,150.00
26	262m 1350m	Trapezoid chl. to be provided										3,916,800.00
27	1258.000	25m long bridge to be provided										1,000,000.00
28	1350.000	C.P.O.	0.3 dia								Door to be provided	10,000.00
												5,994,900.00
	LLD7											
1	0.000	sluice	0.38 dia	Yes					x			2,000.00
2	53.000	C.P.O.	0.3 dia	Yes		x					Gate to be provided	10,000.00
3	180.000	Drainage crossing	0.6 dia	Yes					x			3,000.00
4		C.P.O. (FC2)	0.3 dia	No								
5		C.P.O. (FC3)	0.3 dia	Yes		x					Gate to be provided	10,000.00
6	10 to 180	Trapezoid chl. to be provided										612,000.00
												637,000.00
	LLD8											
1	0.000	Sluice	0.457 dia	Yes					x			5,000.00
2	11.500	C.P.O.	0.3 dia	No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (54/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
3	28.400	C.P.O. LB	0.3 dia	Yes	x				x			1,000.00
4		C.P.O. RB	0.3 dia	Yes	x				x			1,000.00
5	95.000	Tractor crossing									R/W in D/S to be provided both side	20,000.00
6	170.000	C.P.O.(FC3)	0.3 dia	Yes	x				x		Door sash & culvert wall to be extend	8,000.00
7	344.000	C.P.O.	0.3 dia	No								
8	350.000	C.P.O. FC4	0.3 dia	Yes	x						Gate to be provided	10,000.00
9		C.P.O. FC5	0.3 dia	Yes	x							10,000.00
10		1.8m width regulator to be provided	1.8m. Width									20,000.00
11	10-350	Trapezoid chl. section to be provide										1,260,000.00
												1,335,000.00
	LLD9											
1	0.000	Sluice	02Nos 0.457 dia	Yes					x		4m long R/W to be provided to D/S	15,000.00
2	8.500	C.P.O.	0.3 dia	Yes		x					2Nos gate to be provided	20,000.00
3		Drop		Yes							Conc. cut off wall & back filling to be	15,000.00
4	67.700	Drop		Yes								10,000.00
5	140.000	Farm crossing		No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (55/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
6	157.200	C.P.O.	0.3 dia	Yes					x		Gate to be provided	10,000.00
7		C.P.O.	0.3 dia	Yes					x		- do -	10,000.00
8		Drop		Yes					x		10m R/W to be provided back filling	28,000.00
9	250-650	R/W	0.75height								To be removed	20,000.00
10	436.000	C.P.O.	0.3 dia	Yes		x					Gates to be provided	10,000.00
11		C.P.O.	0.3 dia	Yes		x					-do-	10,000.00
12	448.000	Bridge		No								
13		C.P.O.	0.3 dia	Yes		x			x		Chl. sec. to be repaired)	30,000.00
14											15m conc. wall to be provided LB	
15	629.000	C.P.O. to be demolish & re-construction	0.3 dia	Yes			x					40,000.00
16	670.000	Regulator							x			3,000.00
17	693.000	C.P.O.	0.3 dia	No								
18	1078.000	Regulated checked	0.3 dia	Yes								3,000.00
19	1298.000	C.P.O.		Yes					x		Door to be provided	10,000.00
20		2' dia. culvert		Yes								35,000.00
21	1475.000	C.P.O.		No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (56/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
22	1587.000	C.P.O.	1.8m width								Gated regulator	30,000.00
23	1625.000	Drop		No								
24	2125.000	Drop		No								
25	2332.000	C.P.O.	0.3 dia	No					x			
26	2497.000	C.P.O.	0.3 dia	No								
27	2581.000	C.P.O.	0.3 dia	Yes		x					Gated regulator	10,000.00
28		C.P.O.	0.3 dia	Yes		x					- do -	10,000.00
29	2600.000	Drop		No								
30	2797.000	C.P.O.		No								
31	2800.000	Drop		No								
32		2000m length Trapezoid chl section to										7,200,000.00
												7,519,000.00
	LLD10											
1	0.000	Sluice	0.45 dia	Yes		x						1,000.00
2	17.000	Under crossing	2' dia	Yes		x						2,000.00
3	42.000	C.P.O.	0.3 dia	Yes		x			x		R/W(6m long) to be constructed in both	30,000.00
4	163.000	C.P.O.	0.3 dia	No								

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (57/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
5												
6	210.000	C.P.O. to Hindogama Tank	0.3dia									
7	335.000	R/W to be provided in LB	0.6 x 0.75m.								65m length. 25m height	400,000.00
8	10 to 200	Trapezoid chl. section to be provide										720,000.00
												1,153,000.00
	LLD11											
1	0.000	Sluice	0.45 dia	Yes					x			2,000.00
2												
3	11.700	Drop		No								
4	75.000	C.P.O.	0.3 dia	No								
5	83.500	Drop		Yes					x		D/S rubble pitching to be done E/filling	6,000.00
6	125.000	Drop		Yes							D/S R/W to be provided done 10m	35,000.00
7	225.000	Turn out 2Nos.	0.3 dia	Yes					x		5m long R/W in bath side (D/S to be	25,000.00
8	350.000	Drop		Yes					x		15m long R/W in RB of D/S to be provided	40,000.00
9	539.000	Drop									30m long - do	60,000.00
10	560.000	New drop to be provided									After designs chl	50,000.00
11	560.000	Extra FC to be provided with C.P.O.	0.3 dia								According to the framers' claiming	100,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (58/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
12	725.000	R/W to be provided in RB 775m long)	0.75 height 75m long									135,000.00
13	736.000	C.P.O.	0.3 dia						x		Door to be provided	10,000.00
14	10 to 736	Trapezoid chl. section to be provide										2,613,600.00
												3,076,600.00
	Nalubewa Centre Canal											
1	0.000	Sluice	0.6 dia	Yes					x			1,000.00
2	30.000	Over crossing	0.6 dia	No								
3	45.000	C.P.O.	0.3 dia	Yes		x					Rod to be provided	2,000.00
4	116.500	C.P.O.	0.3 dia	Yes		x			x		Door to be provided	10,000.00
5		Regulator	1.3m width	Yes					x		R. pitching to be done R/W to be re-	23,000.00
6	185.5-235	R/W		Yes					x		Plastering	3,000.00
7	267.500	C.P.O.	0.3 dia	Yes		x					Door to be provided	10,000.00
8		LB R/W		Yes					x			60,000.00
9	366.000	Culvert		Yes					x			3,000.00
10	372.000	C.P.O.	0.3 dia	Yes		x					Door to be provided	10,000.00
11	381.000	C.P.O.	0.3 dia	No								
12	385.000	C.P.O.	0.3 dia	Yes		x					-do-	10,000.00

Table TA-1 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Irrigation Department (59/59)

Name of Scheme : Nachchaduwa

Name of Canal : High Level D-Canal (managed by ID), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
13	450.000	Chl. Crossing to be provided										35,000.00
14	470.000	C.P.O.	0.3 dia	Yes		x					Door to be provided	10,000.00
15		C.P.O.	0.3 dia	Yes		x					-do-	10,000.00
16												
17	510.000	C.P.O.		No								
18	588.000	C.P.O.	0.3 dia	No								
19		D/S Structure	0.3 dia						x			5,000.00
20	10 to 588	Trapezoid chl. section to be provide										2,080,800.00
												2,272,800.00

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (1/48)

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.)
1	HLD 01	Two concrete walls (RC Canal)	L 10 ft W 6 inches H 2 ft	Concrete - 1 cube	8,200	Skilled - 1 days	275	
						Labour - 8 days	1,400	1,400
				Earth works 2 cu		Labors 4 days	700	700
2	HLD 02	Rubble masonry wall	L 250m W 1 ft H 2 ft	RRM 37 cu	118,400	Skilled 28 days	7,700	
						Labors 185 days	32,375	32,375
				Earth works 125 cu		Labors 278 days	48,650	48,650
				Metal 8 cu	20,800	Labors 18 days	3,150	3,150
3	HLD 02 canal road	Earth filling 1 km HLD canal road from HLMC to LLMC	L 1 km W 3m	Earth - 159 cu	79,500	Labors 353 days	61,775	61,775
				Gravel - 88 cu	176,000	Labors 195 days	34,125	34,125
4	HLD 03	Side wall on both sides	L 20 ft W 1 ft H 2 ft	RRM 1 cu	6,400	Skilled 1 days	275	
						Labors 5 days	875	875
				Earth works 3 cu		Labors 7 days	1,225	1,225
				Metal 1 cu	2,600	Labors 1 days	175	175
5	HLD 03 Canal road	Earth work (Filling)	L 1 km W 3m	Earth - 159 cu	39,750	Labors 353 days	61,775	61,775
				Gravel - 88 cu	176,000	Labors 195 days	34,125	34,125
6	HLD 03	Construction of a culvert	Repair the road replacing 2 inch dia. Hume pipes 2 Nos.	2 ft dia. HP - 20ft	14,000			
				RRM 2 cu	6,400	Skilled 2 days	550	
						Labors 10 days	1,750	1,750
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	350
7	HLD 04	Construction side walls (both sides)	L 50 ft W 1 ft H 2 ft x 2 walls	Included in rehabilitation plan of Irrigation Department of HLD4				
8	HLD 04	Construction of a culvert	2 ft dia. X 8 hume pipes across the main road	Included in rehabilitation plan of Irrigation Department of HLD4				
9	HLD 04	Construction side walls (both sides)	L 100ft W 2 ft H 2 ft rubble masonry	Included in rehabilitation plan of Irrigation Department of HLD4				
10	HLD 04 Canal Road Separating the reservations	Earth filling - Rehabilitation Survey and demarcation of reservations on all canals Earth filling 1 km on HLD 04 canal road from HLMC to LLMC	L 1 km W 3m	Included in rehabilitation plan of Irrigation Department of HLD4				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (2/48)

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.)
11	HLD 04A at the main canal	Construction of a water control tower with planks	Construction of 3 concrete post to control water with 3 ft high planks	Concrete - 3 cube	24,600	Skilled - 3 days	825	
						Labour - 23 days	4,025	4,025
				Earth works 3 cu		Labors 7 days	1,225	1,225
				Others	6,000			
12	HLD 04A	Construction of side walls (both sides) Construction of 40 ft long 2 ft wide 2 ft high side walls on both sides of canal	L 40 ft W 2 ft H 2 ft	RRM 2 cu	6,400	Skilled 1 days	275	
						Labors 5 days	875	875
				Earth works 6 cu		Labors 13 days	1,225	1,225
				Metal 1 cu	2,600	Labors 1 days	175	175
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	3,200	Skilled 1 days	275	
						Labors 5 days	875	875
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	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	8,200	Skilled - 1 days	275	
						Labour - 8 days	1,400	1,400
				Earth works 2 cu		Labors 4 days	700	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	79,500	Labors 353 days	61,775	61,775
				Gravel - 88 cu	176,000	Labors 195 days	34,125	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	3,200	Skilled 1 days	275	
						Labors 5 days	875	875
				Earth works 2 cu		Labors 2 days	350	350
				Metal 1 cu	2,600	Labors 2 days	350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (3/48)

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.)
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			

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (4/48)

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	86,400	Skilled 20 days	5,500	
						Labors 135 days	23,625	23,625
				Earth works 50 cu		Labors 111 days	19,425	19,425
				Metal 3 cu	7,800	Labors 7 days	1,225	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	12,800	Skilled 3 days	825	
						Labors 20 days	3,500	3,500
				Earth works 10 cu		Labors 22 days	3,850	3,850
				Metal 1 cu	2,600	Labors 2 days	350	350
3	FC 02	Must construct a ruble wall	L 200m W 2' H 2 1/2' - both sides	RRM 36 cu	115,200	Skilled 27 days	7,425	
						Labors 180 days	31,500	31,500
				Earth works 100 cu		Labors 222 days	38,850	38,850
				Metal 6 cu	15,600	Labors 13 days	2,275	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	86,400	Skilled 20 days	5,500	
						Labors 135 days	23,625	23,625
				Earth works 50 cu		Labors 111 days	19,425	19,425
				Metal 3 cu	7,800	Labors 7 days	1,225	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	179,200	Skilled 42 days	11,550	
						Labors 280 days	49,000	49,000
				Earth works 155 cu		Labors 344 days	60,200	60,200
				Metal 10 cu	26,000	Labors 22 days	3,850	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 work	RRM 78 cu	249,600	Skilled 59 days	16,225	
						Labors 390 days	68,250	68,250
				Earth works 216 cu		Labors 480 days	84,000	84,000
				Metal 14 cu	36,400	Labors 31 days	5,425	5,425

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (5/48)

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.)
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	19,200	Skilled 5 days	1,375	
						Labors 30 days	5,250	5,250
				Earth works 17 cu		Labors 38 days	6,650	6,650
				Metal 1 cu	2,600	Labors 2 days	350	350
				HP dia 300mm - 30 ft.	10,500			
10	Fc 09 End drain	Earth filling 40 (10' x 10' x 1)		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	41,600	Skilled 10 days	2,750	
						Labors 65 days	13,650	13,650
				Earth works 72 cu		Labors 160 days	20,650	20,650
				Metal 2 cu	5,200	Labors 4 days	700	700
12	Hidogama spill canal	Construction of a side wall		Concrete 5 cu	41,000	Skilled 5 days	1,375	
						Labors 39 days	6,825	6,825
				Earth works 10 cu		Labors 22 days	3,850	3,850
				Metal 1 cu	2,600	Labors 2 days	350	350
13	HLD 8 FC02	FC Rubble masonry wall	L 60' W 1 1/2 H 2'	RRM 3 cu	9,600	Skilled 2 days	550	
						Labors 15 days	2,625	2,625
				Earth works 9 cu		Labors 20 days	3,500	3,500
				Metal 1 cu	2,600	Labors 2 days	350	350
		Construction of a water tank	For water distribution	Earth works 20 cu		Labors 44 days	7,700	7,700
				Others	5,000			
		Construction of regulator	Construction of regulator	Slide gate W1.00xH0.50	150,000			
				Slide dia. 300 gate	11,500			
				Concrete 1 cu	16,400	Skilled 1 days	275	
						Labors 8 days	1,400	1,400
				Earth works 1 cu		Labors 2 days	350	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

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (6/48)

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.)
14	HLD 8 FC 1	Construction of water tank	Repairs of FC 1 canal	Earth works 20 cu		Labors 44 days	7,700	7,700
				Others	5,000			
		Construction of side wall	Repairs of FC 1 canal L 30 m	Concrete 5 cu	41,000	Skilled 5 days	1,375	
						Labors 39 days	6,825	6,825
				Earth works 10 cu		Labors 22 days	3,850	3,850
				Metal 1 cu	2,600	Labors 2 days	350	350
		Construction of regulator	Repairs of FC 1 canal	Slide dia. 300 gate	11,500			
				Concrete 1 cu	16,400	Skilled 1 days	275	
						Labors 8 days	1,400	1,400
				Earth works 1 cu		Labors 2 days	350	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	64,000	Skilled 15 days	4,125	
						Labors 100 days	17,500	17,500
				Earth works 50 cu	50	Labors 133 days	23,275	23,275
				Metal 3 cu	7,800	Labors 9 days	1,575	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		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			

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (7/48)

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	
						Labors 31 days	5,425	5,425
				Metal 1cu	2,600	Labors 2 days	350	350
				Earth works 10 cu		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	
						Labors 5 days	875	875
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	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	
						Labors 5 days	875	875
				Earth works 2 cu		Labors 4 days	700	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	
						Labors 5 days	875	875
				Earth works 2 cu		Labors 4 days	700	700
5	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1' ft	Earth works 1 cu	250	Labors 2 days	350	350
6	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1' ft	Earth works 1 cu	250	Labors 2 days	350	350
7	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1' ft	Earth works 1 cu	250	Labors 2 days	350	350
8	HLD 12 / FC2	Earth filing	L 6' ft, W 3' ft, H 1' ft	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	
						Labors 8 days	1,400	1,400
				HP dia. 600mm	14,000			
				Slide gate dia. 300	11,500			
				Earth works 1 cu		Labors 2 days	350	350
				Others	2,000			
10	HLD 12 / FC2	Construction of side walls of culvert and fixing door		Concrete 1 cu	8,200	Skilled 1 days	275	
						Labors 8 days	1,400	1,400
				HP dia. 600mm	14,000			
				Slide gate dia. 300	11,500			
				Earth works 1 cu		Labors 2 days	350	350
				Others	2,000			

Table Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (8/48)

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.)
11	HLD 12 / FC2	Construction of farm gate		Concrete 1 cu	8,200	Skilled 1 days	275	
						Labors 8 days	1,400	1,400
				HP dia.6"	2,100			
				Earth works 1 cu		Labors 2 days	350	350
				Others	2,000			
12	HLD 11 /FC2	Construction of a new road Earth filing and surface gavel	L 500m Width 12' ft	Earth - 901 cubes	225,250	Labors 2000 days	350,000	350,000
				Gravel - 106 cubes	212,000	Labors 235 days	41,125	41,125
13	HLD 11 /FC2	Construction of canal with the road Earth work	L 500m, W 3' ft H 2 1/2' ft	Earth 200 cubes	100,000	Labors 444 days	77,700	77,700
14	HLD 11 /FC2	Side wall of additional canal Rubble masonry wall	L 150m W 9"inches H 2 1/2'	RRM 27 cu	86,400	Skilled 20 days	5,500	
						Labors 135 days	23,625	23,625
				Earth works 75 cu		Labors 167 days	29,225	29,225
				Metal 5 cu	13,000	Labors 11 days	1,925	1,925
15	HLD 11 /FC2	2 small culverts	4 hume pipes for each culvert	RRM 4 cu	12,800	Skilled 3 days	825	
						Labors 20 days	3,500	3,500
				HP 24" - 40 ft	28,000			
				Earth works 4 cu		Labors 9 days	1,575	1,575
				Metal 2 cu	5,200	Labors 4 days	700	700
16	HLD 11 /FC2	Side wall of additional canal Rubble masonry wall	L 100m W 9"inches H 2 1/2'	RRM 18 cu	57,600	Skilled 14 days	3,850	
						Labors 90 days	15,750	15,750
				Earth works 50 cu		Labors 111 days	19,425	19,425
				Metal 3 cu	7,800	Labors 7 days	1,225	1,225
17	HLD 11 /FC2	Two culverts for access of tractors Each needs 2 ft dia 2 hume pipes of 8' ft		RRM 4 cu	12,800	Skilled 3 days	825	
						Labors 20 days	3,500	3,500
				HP 24" - 40 ft	28,000			
				Earth works 4 cu		Labors 9 days	1,575	1,575
				Metal 2 cu	5,200	Labors 4 days	700	700

Table Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (9/48)

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.)
18	HLD 11 /FC3 upper section	D-Canal Side wall	L 150m W 2m H 1m	RRM 34 cu	108,800	Skilled 26 days	7,150	
						Labors 170 days	29,750	29,750
				Earth works 75 cu		Labors 167 days	29,225	29,225
				Metal 5 cu	13,000	Labors 11 days	1,925	1,925
19	HLD 11 /FC3 upper section	FC3 Field canal Concreting side walls and bottom	L 350m W 1m H 1m	Concrete 78 cu	639,600	Skilled 78 days	21,450	
						Labors 605 days	105,875	105,875
				Earth works 175 cu		Labors 389 days	68,075	68,075
				Metal 26 cu	67,600	Labors 58 days	10,150	10,150
20	HLD 11 /FC3	FC 3 lower section Field canal should be re-constructed with concrete	L 500 m, W 1m H 2 1/2 ft	Concrete 93 cu	762,600	Skilled 93 days	25,575	
						Labors 721 days	126,175	126,175
				Earth works 250 cu		Labors 555 days	97,125	97,125
				Metal 37 cu	96,200	Labors 82 days	14,350	14,350
21	HLD 11 /FC3	FC3 additional field canal Earth bund	L 200m, W 3' ft H 2 ft	Earth - 68 cubes	17,000	Labors 151 days	26,425	26,425
22	HLD 11 /FC3	Field canal road Filling Earth (gravel)	Length 1 km W 3 m	Earth - 159 cu	79,500	Labors 353 days	61,775	61,775
				Gravel - 88 cu	176,000	Labors 195 days	34,125	34,125
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	410,000	Skilled 50 days	13,750	
						Labors 388 days	67,900	67,900
				Earth works 183 cu		Labors 406 days	71,050	71,050
				Metal 25 cu	65,000	Labors 56 days	9,800	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	6,400	Skilled 2 days	550	
						Labors 10 days	1,750	1,750
				HP 24" - 20 ft	14,000			
				Earth works 2 cu		Labors 4 days	700	700
				Metal 1 cu	2,600	Labors 2 days	350	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	877,400	Skilled 107 days	29,425	
						Labors 829 days	145,075	145,075
				Earth works 250 cu		Labors 505 days	88,375	88,375
				Metal 34 cu	88,400	Labors 75 days	13,125	13,125

Table Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (10/48)

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.)
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	877,400	Skilled 107 days	29,425	
						Labors 829 days	145,075	145,075
				Earth works 250 cu		Labors 505 days	88,375	88,375
				Metal 34 cu	88,400	Labors 75 days	13,125	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	441,600	Skilled 104 days	28,600	
						Labors 690 days	120,750	120,750
				Earth works 250 cu		Labors 555 days	97,125	97,125
				Metal 16 cu	41,600	Labors 36 days	6,300	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	606,800	Skilled 74 days	20,350	
						Labors 574 days	100,450	100,450
				Metal - 24 cube	62,400	Labors 53 days	9,275	9,275
				Earth works 200 cu		Labors 444 days	77,700	77,700
29	HLD 12 FC 4 & 5	Threshing yard Repair the threshing yard with earth filling	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	159,000	Labors 706 days	123,550	123,550
				Gravel - 177 cu	354,000	Labors 393 days	68,775	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.	10,800			
				HP dia 600mm - 20 ft.	14,000			
				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
				Metal 2 cu	5,200	Labors 2 days	350	350
32	HLD 12 FC 4 & 5	Field canal road 10 culverts for field canal road	Length 16' ft	HP 450mm - 200 ft.	108,000			
				Concrete 20 cu	164,000	Skilled 20 days	5,500	
						Labors 155 days	27,125	27,125
				Earth works 20 cu		Labors 44 days	7,700	7,700
				Metal 10 cu	26,000	Labors 22 days	3,850	3,850
33	HLD 12 / FC6	Replacement of sluice door of field canal		Slide gate dia. 300 - 2	23,000			

Table Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (11/48)

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.)
34	HLD 12 / FC6	Side walls of FC2 6" x 9" rubble masonry wall	Length 500' ft H 3 1/2' ft	RRM 37 cu	118,400	Skilled 28 days	7,700	
						Labors 185 days	32,375	32,375
				Earth works 76 cu		Labors 169 days	29,575	29,575
				Metal 5 cu	13,000	Labors 11 days	1,925	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	139,400	Skilled 17 days	4,675	
						Labors 132 days	23,100	23,100
				Metal - 4 cu	10,400	Labors 9 days	1,575	1,575
				Earth works 18 cu		Labors 40 days	7,000	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	28,800	Skilled 7 days	1,925	
						Labors 45 days	7,875	7,875
				Earth works 19 cu		Labors 42 days	7,350	7,350
				Metal 1 cu	2,600	Labors 2 days	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	28,800	Skilled 7 days	1,925	
						Labors 45 days	7,875	7,875
				Earth works 19 cu		Labors 42 days	7,350	7,350
				Metal 1 cu	2,600	Labors 2 days	350	350
38	HLD 12 / FC6	Construction of 5 culverts Hume pipes 2 x 5 = 10 nos.		HP 450mm - 100 ft.	54,000			
				Concrete 10 cu	82,000	Skilled 10 days	2,750	
						Labors 78 days	13,650	13,650
				Earth works 10 cu		Labors 22 days	3,850	3,850
				Metal 5 cu	13,000	Labors 11 days	1,925	1,925
39	FC1	Side wall of FC1 Repair side wall of canal	Length 250' ft W 1' ft H 3' ft	RRM 16 cu	51,200	Skilled 12 days	3,300	
						Labors 80 days	14,000	14,000
				Earth works 38 cu		Labors 84 days	14,700	14,700
				Metal 2 cu	5,200	Labors 4 days	700	700
40	FC1	Threshing yard Rehabilitation with earth filling	2000 sq. ft	Earth - 40 cubes	20,000	Labors 89 days	15,575	15,575

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (12/48)

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.)
41	HLD 12 / FC1	Total length of the canal is repaired Additional field canal 3 meters constructed	Additional canal both sides concreted	Concrete 1 cu	8,200	Skilled 1 days	275	
						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
42	HLD 12 / FC1	Sluice door of canal is broken		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			

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (13/48)

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' participation
				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	
							Labors	23 days	4,025	4,025
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	1 cu	2,600	Labors	2 days	350	350
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.		Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
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	
							Labors	275 days	48,125	48,125
				Earth works	100 cu		Labors	222 days	38,850	38,850
				Metal	6 cu	15,600	Labors	13 days	2,275	2,275
4	Construction of a door to distribute water	Construction of 2 doors for dual water issue from the end of the above side wall		Concrete	2 cu	16,400	Skilled	2 days	550	
							Labors	16 days	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				
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	
							Labors	109 days	19,075	19,075
				Earth works	25 cu		Labors	56 days	9,800	9,800
				Metal	4 cu	10,400	Labors	9 days	1,575	1,575
6	Field canal	Construction of side wall where FC divides into two	L 200 m H 1 1/2 ft	RRM	23 cu	73,600	Skilled	17 days	4,675	
							Labors	115 days	20,125	20,125
				Earth works	100 cu		Labors	222 days	38,850	38,850
				Metal	6 cu	15,600	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

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (14/48)

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' participation
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
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	
							Labors 318 days		55,650	55,650
				Earth works	175 cu		Labors 389 days		68,075	68,075
				Metal	17 cu	44,200	Labors 38 days		6,650	6,650
9	Deeping the D canal	Deepen up to 6' ft 9" inches		Desilting	100 cu		Labors 222 days		38,850	38,850
10	Repairs to water distribution points	Repairing each water distribution structure with concrete		Concrete	1 cu	8,200	Skilled 1 days		275	
							Labors 8 days		1,400	1,400
				Earth works	1 cu		Labors 2 days		350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
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	
							Labors 23 days		4,025	4,025
				Earth works	10 cu		Labors 22 days		3,850	3,850
				Metal	1 cu	2,600	Labors 2 days		350	350
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	RRM	17 cu	54,400	Skilled 13 days		3,575	
							Labors 85 days		14,875	14,875
				Earth works	75 cu		Labors 167 days		29,225	29,225
				Metal	5 cu	13,000	Labors 11 days		1,925	1,925
13	Deeping the field canal	Deeping the field canal for 30 meters closer to Nachchaduwa Main Road.		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				
				Concrete	2 cu	16,400	Skilled 2 days		550	
							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
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	
							Labors 23 days		4,025	4,025
				Earth works	10 cu		Labors 22 days		3,850	3,850
				Metal	1 cu	2,600	Labors 2 days		350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (15/48)

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' participation
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
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	Concrete	47 cu	385,400	Skilled 47 days		12,925	
							Labors 364 days		63,700	63,700
				Earth works	150 cu		Labors 333 days		58,275	58,275
				Metal	20 cu	52,000	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	
							Labors 175 days		30,625	30,625
				Earth works	150 cu		Labors 333 days		58,275	58,275
				Metal	10 cu	26,000	Labors 22 days		3,850	3,850
	Sub-total					1,650,600			763,575	704,725
	Grand-total					2,414,175				
	(US$/ha)					225				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (16/48)

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.)
1	HLD 19 - FC1	Construction of side walls & earth filling	Length 200 m Height 2 1/2' H	RRM	36 cu	115,200	Skilled	27 days		7,425	
							Labors	180 days		31,500	31,500
				Earth works	100 cu		Labors	222 days		38,850	38,850
				Metal	6 cu	15,600	Labors	13 days		2,275	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	147,200	Skilled	35 days		9,625	
							Labors	230 days		40,250	40,250
				Earth works	128 cu		Labors	284 days		49,700	49,700
				Metal	8 cu	20,800	Labors	18 days		3,150	3,150
4	FC3 road & canal	Earth fill the road	Length 926 m Height 3m	Earth	147 cu	73,500	Labors	326 days		57,050	57,050
				Gravel	82 cu	164,000	Labors	182 days		31,850	31,850
		Concrete or rubble masonry wall	Length 926 m Height 2 1/2' ft	RRM	167 cu	534,400	Skilled	125 days		34,375	
							Labors	835 days		146,125	146,125
				Earth works	463 cu		Labors	1,028 days		179,900	179,900
				Metal	29 cu	75,400	Labors	64 days		11,200	11,200
5	FC4 Canal & road	Earth fill the road	Length 250 m Height 3m	Earth	40 cu	20,000	Labors	89 days		15,575	15,575
				Gravel	22 cu	44,000	Labors	49 days		8,575	8,575
		Concrete or rubble masonry wall	Length 250 m Height 2 1/2' ft	RRM	45 cu	144,000	Skilled	34 days		9,350	
							Labors	225 days		39,375	39,375
				Earth works	125 cu		Labors	278 days		48,650	48,650
				Metal	8 cu	20,800	Labors	18 days		3,150	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	284,800	Skilled	67 days		18,425	
							Labors	445 days		77,875	77,875
				Earth works	246 cu		Labors	546 days		95,550	95,550
				Metal	16 cu	41,600	Labors	36 days		6,300	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	14,000					
				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
				Metal	2 cu	5,200	Labors	4 days		700	700

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (17/48)

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.)
7	FC6 Canal & Road	Construction of side walls of canal	Length 300m Height 2 1/2' ft	RRM	54 cu	172,800	Skilled	41 days	11,275	
							Labors	270 days	47,250	47,250
				Earth works	150 cu		Labors	333 days	58,275	58,275
				Metal	10 cu	26,000	Labors	22 days	3,850	3,850
		Construction of road	Length 300 m Height 3m	Earth works	248 cu	124,000	Labors	551 days	96,425	96,425
				Gravel	64 cu	128,000	Labors	142 days	24,850	24,850
		Construction of a culvert		HP dia. 600mm	20 ft	14,000				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
8	HLD 20 Canal	Construction of side walls	Length 300m Height 2 1/2' ft	RRM	54 cu	172,800	Skilled	41 days	11,275	
							Labors	270 days	47,250	47,250
				Earth works	150 cu		Labors	333 days	58,275	58,275
				Metal	10 cu	26,000	Labors	22 days	3,850	3,850
9	Sluices of Kirimetiya Wewa Tank	Lifting 2 sluices and construct a concrete slab to open and close		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
				Metal	2 nos	23,000				
				HP dia. 600mm	80 ft	56,000				
				Slide gate dia. 600	2 nos	80,000				
10	Ithiviwela Canal Road and Drainage Canal	Earth fill the road	Length 500 m Height 3m	Earth	80 cu	40,000	Labors	178 days	31,150	31,150
				Gravel	44 cu	88,000	Labors	98 days	17,150	17,150
		Construction of side walls of canal	Length 500 m H 2 1/2 ft	RRM	90 cu	288,000	Skilled	68 days	18,700	
							Labors	450 days	78,750	78,750
				Earth works	250 cu		Labors	555 days	97,125	97,125
				Metal	16 cu	41,600	Labors	36 days	6,300	6,300
		Digging drainage canal	Length 500 m	Earth works	250 cu		Labors	555 days	97,125	97,125
11	HLD 21 D canal	Construction of a concrete wall or a separate sluice	Length about 2070 m Height 3 1/2' ft	Included in rehabilitation plan of Irrigation Department of HLD21						

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (18/48)

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.)
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	16,400	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	8 cu		Labors	18 days	3,150	3,150
				Metal	2 cu	5,200	Labors	4 days	700	700
13	FC 3	Construction of canal bund and canal - fill the bund with earth	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 Road Length 2500m	Canal Length 1500m Height 2 1/2' ft W 2 1/2 ft	Concrete	249 cu	2,041,800	Skilled	249 days	68,475	
							Labors	1,930 days	337,750	337,750
				Earth works	750 cu		Labors	1,665 days	291,375	291,375
				Metal	180 cu	468,000	Labors	400 days	70,000	70,000
			Road Length 2,500 m W 3 m	Earth	398 cu	199,000	Labors	884 days	154,700	154,700
				Gravel	221 cu	442,000	Labors	491 days	85,925	85,925
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	25,600	Skilled	6 days	1,650	
							Labors	40 days	7,000	7,000
				Earth works	175 cu		Labors	389 days	68,075	68,075
				Metal	1 cu	2,600	Labors	2 days	350	350
16	Kuda Neubewa Tank	Arresting the leak of the Tank		Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank						
17	HLD 25 Canal & Road	Construction of side walls of canal Earth fill the road with gravel 6" dia. 2 x 10 nos.	Length of canal 1000 m width 8' ft Height 2' ft	RRM	148 cu	473,600	Skilled	111 days	30,525	
							Labors	740 days	129,500	129,500
				Earth works	500 cu		Labors	1,110 days	194,250	194,250
				Metal	32 cu	83,200	Labors	71 days	12,425	12,425
			Road Length 1,000 m W 3 m	Earth	159 cu	79,500	Labors	353 days	61,775	61,775
				Gravel	88 cu	176,000	Labors	195 days	34,125	34,125
	Sub-total					7,098,200			3,253,300	3,028,900
	Grand-total					10,351,500				
	(US$/ha)					817				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (19/48)

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	Fix an operative with locking devices				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 H 3ft	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	32,550
				Earth works	100 cu		Labors	222 days	38,850	38,850
				Metal	10 cu	26,000	Labors	22 days	3,850	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	1,750
				Earth works	7 cu		Labors	16 days	2,800	2,800
				Metal	1 cu	2,600	Labors	2 days	350	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						

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (20/48)

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.)
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	1,400
				Earth works	1 cu		Labors 2 days		350	350
				Slide gate dia. 300	2 nos	23,000				
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	6,300
				Gravel	9 cu	18,000	Labors 20 days		3,500	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	
							Labors 23 days		4,025	4,025
				Earth works	3 cu		Labors 7 days		1,225	1,225
				Slide gate dia. 300	3 nos	34,500				
				HP dia.12"	60 ft	21,000				
17	FC4 First turnout	Rehabilitation of destroyed turnout		Concrete	1 cu	8,200	Skilled 1 days		275	
							Labors 8 days		1,400	1,400
				Earth works	1 cu		Labors 2 days		350	350
				Slide gate dia. 300	1 nos	11,500				
18	Near Welegedas	Earth filling the remaining section		Earth works	10 cu		Labors 22 days		3,850	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				
				RRM	2 cu	6,400	Skilled 2 days		550	
							Labors 10 days		1,750	1,750
				Earth works	2 cu		Labors 4 days		700	700
				Metal	1 cu	2,600	Labors 2 days		350	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	4,375
				Earth works	15 cu		Labors 33 days		5,775	5,775
				Metal	1 cu	2,600	Labors 2 days		350	350
21	FC7 near Mr. Tamaragena's field	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	4,375
				Earth works	15 cu		Labors 33 days		5,775	5,775
				Metal	1 cu	2,600	Labors 2 days		350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (21/48)

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.)
22	From start of FC7	Earth filling with gravel	L 1,118m with W 6 ft H 4 inches	Earth works	107 cu	53,500	Labors 238 days		41,650	41,650
				Gravel	59 cu	118,000	Labors 131 days		22,925	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	69,125
				Earth works	268 cu		Labors 595 days		104,125	104,125
				Metal	18 cu	46,800	Labors 40 days		7,000	7,000
24	FC8 road pot holes	Earth filling with gravel	L 500 m W 2 m	Earth works	53 cu	26,500	Labors 118 days		20,650	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	10,500
1	D canal gate	Fixing gate with locking devices		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		3,025	
							Labors 75 days		13,125	13,125
				Earth works	50 cu		Labors 111 days		19,425	19,425
				Metal	4 cu	10,400	Labors 9 days		1,575	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	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	10,500

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (22/48)

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.)
11	FC 1.2	Rehabilitation of 2nd turnout with pipes		Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				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	20,650
				Gravel	27 cu	54,000	Labors	60 days	10,500	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	20,650
				Gravel	27 cu	54,000	Labors	60 days	10,500	10,500
15	Canal in front of ASC	Construction of an over crossing		HP dia. 600mm	20 ft	14,000				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	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	20,650
				Gravel	27 cu	54,000	Labors	60 days	10,500	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	3,025	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	4 cu	10,400	Labors	9 days	1,575	1,575
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	20,650
				Gravel	27 cu	54,000	Labors	60 days	10,500	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						

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (23/48)

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.)
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	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	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		19,425	19,425
				Gravel -50 cu		10,000	Labors		1,925	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	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	10,500
26	FC5.1A Canal Road	Construction of farm crossing (culvert)		HP dia. 600mm	20 ft	14,000				
				RRM	2 cu	6,400	Skilled 2 days		550	
							Labors 10 days		1,750	1,750
				Earth works	2 cu		Labors 4 days		700	700
				Metal	1 cu	2,600	Labors 2 days		350	350
27	FC6 Turnout	Rehabilitation of hume pipe with a larger		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		1,650	
							Labors 40 days		7,000	7,000
				Earth works	20 cu		Labors 44 days		7,700	7,700
				Metal	2 cu	5,200	Labors 4 days		700	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		32,175	
							Labors 780 days		136,500	136,500
				Earth works	670 cu		Labors 1487 days		260,225	260,225
				Metal	43 cu	111,800	Labors 95 days		16,625	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	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	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	20,650
				Gravel	27 cu	54,000	Labors 60 days		10,500	10,500
	Sub-total					2,498,100			1,277,125	1,208,375
	Grand-total					3,775,225				
	(US$/ha)					267				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (24/48)

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	
							Labors	31 days	5,425	5,425
				Earth works	3 cu		Labors	7 days	1,225	1,225
				Metal	2 cu	5,200	Labors	4 days	700	700
2	Field canal	Side wall - rubble masonry	Length 100' ft, W 9" inches, H 1 1/2' ft	RRM	4 cu	12,800	Skilled	3 days	825	
							Labors	20 days	3,500	3,500
				Earth works	15 cu		Labors	33 days	5,775	5,775
				Metal	1 cu	2,600	Labors	2 days	350	350
3	Field canal	Side wall - rubble masonry	Length 100' ft, W 9" inches, H 1 1/2' ft	RRM	4 cu	12,800	Skilled	3 days	825	
							Labors	20 days	3,500	3,500
				Earth works	15 cu		Labors	33 days	5,775	5,775
				Metal	1 cu	2,600	Labors	2 days	350	350
4	Agricultural road	Filling earth	Length 750 m, W 12' ft	Earth works	143 cu	71,500	Labors	317 days	55,475	55,475
				Gravel	80 cu	160,000	Labors	178 days	31,150	31,150
5	HLD 29 Agricultural road	Filling earth	Length 800m, W 12' ft	Earth works	153 cu	76,500	Labors	340 days	59,500	59,500
				Gravel	85 cu	170,000	Labors	189 days	33,075	33,075
6	HLD 29 Field canal	Side wall with rubble masonry	Length 150m, W 9" inches, H 3' ft	RRM	32 cu	102,400	Skilled	24 days	6,600	
							Labors	160 days	28,000	28,000
				Earth works	75 cu		Labors	167 days	29,225	29,225
				Metal	5 cu	13,000	Labors	11 days	1,925	1,925
7	Amane Tank Sluice	Replace doors		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank						
8	Amane Tank Sluice	Replace doors - provide a rip-rap		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank						
9	Amane Tank Agricultural road	Filling earth, culverts for required places	Length 1500m, W 12' ft	Earth works	286 cu	143,000	Labors	635 days	111,125	111,125
				Gravel	159 cu	318,000	Labors	353 days	61,775	61,775
				HP dia. 600mm	60 ft	42,000				
				RRM	6 cu	19,200	Skilled	5 days	1,375	
							Labors	30 days	5,250	5,250
				Earth works	6 cu		Labors	13 days	2,275	2,275
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (25/48)

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.)
10	Amane Tank Spill canal	Side wall for the spill canal	Length 1500m, H 4' ft	Earth works	1,500 cu		Labors	### days	582,750	582,750
11	Amane Tank Agricultural road	Fill earth	Length 1400m, W 12' ft	Included in rehabilitation plan of Irrigation Department of 11 nos of service tank						
12	HLD 32 Sluice	Repair sluice of main canal to HLD		Included in rehabilitation plan of Irrigation Department of 11 nos of service tank						
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	
							Labors	105 days	18,375	18,375
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225
14	HLD 32 Field canal	Side wall - rubble masonry	Length 150m, W 9" inches, H 3' ft	RRM	32 cu	102,400	Skilled	24 days	6,600	
							Labors	160 days	28,000	28,000
				Earth works	75 cu		Labors	167 days	29,225	29,225
				Metal	5 cu	13,000	Labors	11 days	1,925	1,925
15	HLD 32 Agricultural road	Filling earth	Length 1400m, W 12' ft	Earth works	267 cu	133,500	Labors	593 days	103,775	103,775
				Gravel	148 cu	296,000	Labors	329 days	57,575	57,575
16	HLD 31 Field canal	Side wall - rubble masonry	Length 500m, W 9" inches, H 4' ft	RRM	138 cu	441,600	Skilled	104 days	28,600	
							Labors	690 days	120,750	120,750
				Earth works	250 cu		Labors	555 days	97,125	97,125
				Metal	16 cu	41,600	Labors	36 days	6,300	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	111,125
				Gravel	159 cu	318,000	Labors	353 days	61,775	61,775
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	
							Labors	20 days	3,500	3,500
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	1 cu	2,600	Labors	2 days	350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (26/48)

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.)
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	
							Labors	20 days		3,500	3,500
				Earth works	10 cu		Labors	22 days		3,850	3,850
				Metal	1 cu	2,600	Labors	2 days		350	350
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	
							Labors	110 days		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
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	
							Labors	185 days		32,375	32,375
				Earth works	75 cu		Labors	167 days		29,225	29,225
				Metal	5 cu	13,000	Labors	11 days		1,925	1,925
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	
							Labors	185 days		32,375	32,375
				Earth works	75 cu		Labors	167 days		29,225	29,225
				Metal	5 cu	13,000	Labors	11 days		1,925	1,925
27	HLD 34 Sluice	Construction of a sluice to provide water for 20 acres from main canal		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	
							Labors	8 days		1,400	1,400
				Earth works	1 cu		Labors	2 days		350	350
				Slide gate dia. 300	1 nos	11,500					
				HP dia.12"	20 ft	7,000					

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (27/48)

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.)
29	HLD 35 Field canal	Turnout with gates		Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
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	
							Labors	850 days	148,750	148,750
				Earth works	400 cu		Labors	888 days	155,400	155,400
				Metal	25 cu	65,000	Labors	56 days	9,800	9,800
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				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (28/48)

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						

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (29/48)

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.)
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	45 cu	369,000	Skilled	45 days	12,375	
							Labors	349 days	61,075	61,075
				Earth works	150 cu		Labors	333 days	58,275	58,275
				Metal	13 cu	33,800	Labors	29 days	5,075	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				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (30/48)

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 24" dia Iron gate	1 nos 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	672,000	Skilled Labors	158 days 1050 days	43,450 183,750	183,750
				Earth works	900 cu		Labors	1998 days	349,650	349,650
				Metal	57 cu	148,200	Labors	127 days	22,225	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 Road	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	1,344,000	Skilled Labors	315 days 2100 days	86,625 367,500	367,500
				Earth works	1,800 cu		Labors	3996 days	699,300	699,300
				Metal	114 cu	296,400	Labors	253 days	44,275	44,275
11	LLD2	Remove the existing masonry wall of D-canal (1500ft) and rehabilitation	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				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (31/48)

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.)
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	
							Labors	116 days	20,300	20,300
				Earth works	38 cu		Labors	84 days	14,700	14,700
				Metal	6 cu	15,600	Labors	13 days	2,275	2,275
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	71 days	12,425	12,425
3	LLD 3A	Construction of a regulator across LLC		Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
4	LLD 3A	Rehabilitation of earth bund	L 800 m W 0.75 m H 0.75 m	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	
							Labors	116 days	20,300	20,300
				Earth works	38 cu		Labors	84 days	14,700	14,700
				Metal	6 cu	15,600	Labors	13 days	2,275	2,275
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	
							Labors	1132 days	198,100	198,100
				Earth works	375 cu		Labors	833 days	145,775	145,775
				Metal	1 cu	2,600	Labors	2 days	350	350
				Removing	375 m		Labors	375 days	65,625	65,625
7	LLD 3B	Construction of earth bund	L 300m W 0.5 m H 0.75m	Earth works	102 cu	25,500	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	
							Labors	101 days	17,675	17,675
				Earth works	38 cu		Labors	84 days	14,700	14,700
				Metal	4 cu	10,400	Labors	9 days	1,575	1,575

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (32/48)

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.)
10	LLD 3B FC1	Rehabilitation of earth bund	L 75 m W 0.55m H 0.75m	Earth works	8 cu	4,000	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	
							Labors	868 days	151,900	151,900
				Earth works	320 cu		Labors	710 days	124,250	124,250
				Metal	32 cu	83,200	Labors	71 days	12,425	12,425
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	
							Labors	8 days	1,400	1,400
				Earth works	5 cu		Labors	11 days	1,925	1,925
				Metal	1 cu	2,600	Labors	2 days	350	350
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	167 days	45,925	
							Labors	1294 days	226,450	226,450
				Earth works	475 cu		Labors	1055 days	184,625	184,625
				Metal	47 cu	122,200	Labors	104 days	18,200	18,200
14	LLD 3B FC2 sub canal	Agri road	L 600m W 2.5m	Earth works	433 cu	216,500	Labors	961 days	168,175	168,175
				Gravel	106 cu	212,000	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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
16	LLD 3B FC2 sub canal	Construction of earth wall	L 150m W 2 ft H 2,ft	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						

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (33/48)

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.)
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	
							Labors	39 days	6,825	6,825
				Earth works	27 cu		Labors	60 days	10,500	10,500
				Metal	2 cu	5,200	Labors	4 days	700	700
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	
							Labors	194 days	33,950	33,950
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	12 cu	31,200	Labors	27 days	4,725	4,725
22	LLD 4 FC 2	Rehabilitation of earth bund	L 375m, W 1' ft, H 3' ft	Earth works	127 cu	31,750	Labors	282 days	49,350	
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	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				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	
							Labors	101 days	17,675	17,675
				Earth works	25 cu		Labors	56 days	9,800	9,800
				Metal	6 cu	15,600	Labors	13 days	2,275	2,275
25	FC3	Rehabilitation of earth bund	L 210m W 1' ft, H 3' ft	Earth works	22 cu	5,500	Labors	49 days	8,575	8,575

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (34/48)

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.)
26	FC 4	Construction of a concrete side wall	L 15m, W 6" inches H 2 1/2' ft	Concrete	3 cu	24,600	Skilled	3 days	825	
							Labors	23 days	4,025	4,025
				Earth works	8 cu		Labors	18 days	3,150	3,150
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	20 cu	164,000	Skilled	20 days	5,500	
							Labors	155 days	27,125	27,125
				Earth works	80 cu		Labors	178 days	31,150	31,150
				Metal	7 cu	18,200	Labors	16 days	2,800	2,800
				Removing	80 m		Labors	80 days	14,000	14,000
28	FC5	Rehabilitation of earth canal bund	L 375m, W 1' ft H 3' ft	Earth works	127 cu	31,750	Labors	282 days	49,350	49,350
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	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
31	FC7	Rehabilitation of earth bund	L 100m, W 1' ft H 3' ft	Earth works	11 cu	2,750	Labors	24 days	4,200	4,200
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	Concrete	16 cu	131,200	Skilled	16 days	4,400	
							Labors	124 days	21,700	21,700
				Earth works	75 cu		Labors	167 days	29,225	29,225
				Metal	7 cu	18,200	Labors	16 days	2,800	2,800
				Removing	75 m		Labors	75 days	13,125	13,125
33	FC8	Construction of earth canal bund	L 350m, W 2' ft H 3' ft	Earth works	37 cu	9,250	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	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (35/48)

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.)
35	FC9	Rehabilitation of earth canal with structures to issue water to lands not cultivated at present	Structure	Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
			L 550m , W 2' ft, H 2' ft	Earth works	58 cu	14,500	Labors	129 days	22,575	22,575
36	FC9	Construction of an agri- road to connect Madawalagama and Yahalegama from LLD4 canal and construct a causeway across Malwatu Oya	L 200 m, W 8' ft	Earth works	119 cu	59,500	Labors	264 days	46,200	46,200
				Gravel	34 cu	68,000	Labors	75 days	13,125	13,125
	Sub-total					6,522,050			2,545,350	2,342,550
	Grand-total					9,067,400				
	(US$/ha)					923				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (36/48)

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	
							Labors	39 days	6,825	6,825
				Earth works	5 cu		Labors	11 days	1,925	1,925
				Slide gate dia. 300	5 nos	57,500				
				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	
							Labors	16 days	2,800	2,800
				Earth works	9 cu		Labors	20 days	3,500	3,500
				Metal	1 cu	2,600	Labors	2 days	350	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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
5	LLD5 FC2-1	Construction of 5 water inlets for fields		Earth works	5 cu		Labors	11 days	1,925	1,925
				HP dia.6"	50 ft	10,500				
				Others		10,000				
6	LLD5 FC2-2	Construction of a tractor entrance		Earth works	1 cu	500	Labors	2 days	350	350
				HP dia.12"	12 ft	4,200				
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	
							Labors	85 days	14,875	14,875
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	5 cu	13,000	Labors	11 days	1,925	1,925

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (37/48)

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.)
9	LLD6 FC 2	Cross control	Filling earth to washed out cross control H 4 ft L 5 m	RRM	1 cu	3,200	Skilled	1 days	275	
							Labors	5 days	875	875
				Earth works	3 cu		Labors	7 days	1,225	1,225
				Metal	1 cu	2,600	Labors	2 days	350	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	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
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	
							Labors	124 days	21,700	21,700
				Earth works	75 cu		Labors	167 days	29,225	29,225
				Metal	7 cu	18,200	Labors	16 days	2,800	2,800
14	LLD6 FC 5	Construction of a turnout		Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	1 cu		Labors	2 days	350	350
				Slide gate dia. 300	1 nos	11,500				
				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	
							Labors	124 days	21,700	21,700
				Earth works	75 cu		Labors	167 days	29,225	29,225
				Metal	7 cu	18,200	Labors	16 days	2,800	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

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (38/48)

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.)
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	
							Labors	85 days	14,875	14,875
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	5 cu	13,000	Labors	11 days	1,925	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	
							Labors	891 days	155,925	155,925
				Earth works	529 cu		Labors	1174 days	205,450	205,450
				Metal	45 cu	117,000	Labors	100 days	17,500	17,500
21	LLD6 FC 8	Canal road filling earth & surface gravel	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	
							Labors	39 days	6,825	6,825
				Earth works	25 cu		Labors	56 days	9,800	9,800
				Metal	3 cu	7,800	Labors	7 days	1,225	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				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (39/48)

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	
							Labors	530 days	92,750	92,750
				Earth works	250 cu		Labors	555 days	97,125	97,125
				Metal	16 cu	41,600	Labors	36 days	6,300	6,300
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
							Labors	31 days	5,425	5,425
				Earth works	8 cu		Labors	18 days	3,150	3,150
				Metal	1 cu	2,600	Labors	2 days	350	350
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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
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	176,000	Labors	195 days	34,125	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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
6	LLD 8C First water pond	Provide sand bags for branch canal from first water pond	L 50 m	Earth works	5 cu	2,500	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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (40/48)

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.)
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	Concrete	107 cu	877,400	Skilled 107 days		29,425	
							Labors 829 days		145,075	145,075
				Earth works	250 cu		Labors 555 days		97,125	97,125
				Metal	41 cu	106,600	Labors 91 days		15,925	15,925
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	HP dia. 300mm	20 ft	7,000				
				RRM	2 cu	6,400	Skilled 2 days		550	
							Labors 10 days		1,750	1,750
				Earth works	2 cu		Labors 4 days		700	700
				Metal	1 cu	2,600	Labors 2 days		350	350
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	
							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
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	RRM	1 cu	3,200	Skilled 1 days		275	
							Labors 5 days		875	875
				Earth works	2 cu		Labors 4 days		700	700
				Metal	1 cu	2,600	Labors 2 days		350	350
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	
							Labors 285 days		49,875	49,875
				Earth works	244 cu		Labors 542 days		94,850	94,850
				Metal	16 cu	41,600	Labors 36 days		6,300	6,300
13	LLD 8B	Construction of water supplying culverts to paddy fields		HP dia. 300mm	20 ft	7,000				
				RRM	2 cu	6,400	Skilled 2 days		550	
							Labors 10 days		1,750	1,750
				Earth works	2 cu		Labors 4 days		700	700
				Metal	1 cu	2,600	Labors 2 days		350	350

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (41/48)

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.)
14	LLD 8B	Construction of lower branch canal	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				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
16	LLD 8	Rehabilitation of right canal	L 2000' ft H 1 1/2' ft	RRM	12 cu	38,400	Skilled	9 days	2,475	
							Labors	60 days	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	275	
							Labors	8 days	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	24,475	
							Labors	595 days	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 (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

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (42/48)

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.)
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	4,675	
							Labors	110 days	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	550	
							Labors	16 days	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				

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (43/48)

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	
							Labors	150 days	26,250	26,250
				Earth works	100 cu		Labors	222 days	38,850	38,850
				Metal	6 cu	15,600	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	
							Labors	445 days	77,875	77,875
				Earth works	300 cu		Labors	666 days	116,550	116,550
				Metal	19 cu	49,400	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	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	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	
							Labors	35 days	6,125	6,125
				Earth works	25 cu		Labors	56 days	9,800	9,800
				Metal	2 cu	5,200	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	
							Labors	110 days	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
9	LLD9 FC14	Side walls	L 400m W 3/4m H 1/2m	RRM	59 cu	188,800	Skilled	44 days	12,100	
							Labors	295 days	51,625	51,625
				Earth works	200 cu		Labors	444 days	77,700	77,700
				Metal	13 cu	33,800	Labors	29 days	5,075	5,075

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (44/48)

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.)
10	LLD9 FC15	Side walls	L 150m W 3/4m H 1/2m	RRM	22 cu	70,400	Skilled	17 days	4,675	
							Labors	110 days	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
11	LLD 10	Sluice to Hidagama Tank Construction of culvert and gate to canal to	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	
							Labors	550 days	96,250	96,250
				Earth works	200 cu		Labors	444 days	77,700	77,700
				Metal	13 cu	33,800	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	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	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	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225
		Culvert		HP dia. 600mm	20 ft	14,000				
				RRM	2 cu	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	2 cu		Labors	4 days	700	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	
							Labors	510 days	89,250	89,250
				Earth works	150 cu		Labors	333 days	58,275	58,275
				Metal	10 cu	26,000	Labors	22 days	3,850	3,850

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (45/48)

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.)
16	LLD 10	Culvert		HP dia. 600mm	20 ft	14,000					
				RRM	2 cu	6,400	Skilled	2	days	550	
							Labors	10	days	1,750	1,750
				Earth works	2 cu		Labors	4	days	700	700
				Metal	1 cu	2,600	Labors	2	days	350	350
17	LLD 10 FC8	Culvert for distribution		HP dia. 600mm	20 ft	14,000					
				RRM	2 cu	6,400	Skilled	2	days	550	
							Labors	10	days	1,750	1,750
				Earth works	2 cu		Labors	4	days	700	700
				Metal	1 cu	2,600	Labors	2	days	350	350
		Side walls	L 100m H 1m	RRM	24 cu	76,800	Skilled	18	days	4,950	
							Labors	120	days	21,000	21,000
				Earth works	50 cu		Labors	111	days	19,425	19,425
				Metal	3 cu	7,800	Labors	7	days	1,225	1,225
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	25,300	
							Labors	610	days	106,750	106,750
				Earth works	250 cu		Labors	555	days	97,125	97,125
				Metal	16 cu	41,600	Labors	36	days	6,300	6,300
20	LLD 11 FC1	Side walls	L 150m H 1/2m	RRM	22 cu	70,400	Skilled	17	days	4,675	
							Labors	110	days	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
21	LLD 11 FC7	Side walls	L 600m H 1 1/2m	RRM	204 cu	652,800	Skilled	153	days	42,075	
							Labors	1020	days	178,500	178,500
				Earth works	300 cu		Labors	666	days	116,550	116,550
				Metal	19 cu	49,400	Labors	42	days	7,350	7,350
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
				Gravel	212 cu	424,000	Labors	471	days	82,425	82,425

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (46/48)

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.)
23	Canal from LLD 11 to Hembawa Tank	Side walls (Both sides)	L 1000m H 1 1/2m	RRM	339 cu	1,084,800	Skilled	254	days	69,850	
							Labors	1695	days	296,625	296,625
				Earth works	500 cu		Labors	1110	days	194,250	194,250
				Metal	32 cu	83,200	Labors	71	days	12,425	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					
				RRM	2 cu	6,400	Skilled	2	days	550	
							Labors	10	days	1,750	1,750
				Earth works	2 cu		Labors	4	days	700	700
				Metal	1 cu	2,600	Labors	2	days	350	350
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					

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (47/48)

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. Desilting should be necessary.	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	160 ft	112,000				
				RRM	16 cu	51,200	Skilled	12 days	3,300	
							Labors	80 days	14,000	14,000
				Earth works	16 cu		Labors	36 days	6,300	6,300
				Metal	8 cu	20,800	Labors	18 days	3,150	3,150

Table TA-2 Rehabilitation Plan & Cost Estimation for Nachchaduwa Scheme Proposed by Farmers' Organization (48/48)

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.)
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	
							Labors	955	days	167,125	167,125
				Earth works	450 cu		Labors	999	days	174,825	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
				Gravel	153 cu	306,000	Labors	340	days	59,500	59,500
12	F-Canal	Since F-Canal is not existing, a new canal should be constructed	Length 650m	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	
							Labors	1488	days	260,400	260,400
				Earth works	450 cu		Labors	999	days	174,825	174,825
				Metal	73 cu	189,800	Labors	162	days	28,350	28,350
			Width of road 8 ft. Road length 900m	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
16	Tank bund	Rip rap protection	Length 800 m Width 3 m	Included in rehabilitation plan of Irrigation Department of 11 nos. of service tank							
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	Concrete	96 cu	787,200	Skilled	96	days	26,400	
							Labors	744	days	130,200	130,200
				Earth works	350 cu		Labors	777	days	135,975	135,975
				Metal	35 cu	91,000	Labors	78	days	13,650	13,650
18	All F-canal	All F-canal shall be rehabilitated as a cross section with 3-4 ft. width and 1 1/2 ft. height	Length 3.5 km	Earth works	2,205 cu	551,250	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					

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (1/29)

Name of Scheme : Palukadawela

Place : Tank

Portion		Description of Rehabilitation and Improvement Plan	Estimated cost required (Rs.)	Remarks
Tank Bund	1	E/W in forming bund at low sections scours washways	150,000.00	
	2	Improvement. to existing dislodged Rip - rap protection	5,000.00	
	3	Improvement. To existing dislodged spots	50,000.00	
	4	Construction of new bathing spots	75,000.00	
	5	Gravelling tank bund road	150,000.00	
	6	provision of Toe filter	3,000.00	
Sluices	1	Improvement. To down stream structures of LB & RB Sluices	150,000.00	
	2	Improvement. To u/s herd wall of RB sluice & fixing gate posts	125,000.00	
	3	providing of Toe filter	30,000.00	
	4	Providing of hand rails to herd sluice	30,000.00	
Spillway	1	Removing damage existing concrete slab & providing R/F Conc. Skin cover	150,000.00	
	2	Construction. of bridge over spill way	500,000.00	
Anicuts	1	Improvements to Dangahakotuwa Amuna	350,000.00	
	2	Improvements to Alakola Amuna	250,000.00	
	3	Improvements to Kota Ela	250,000.00	
	4	Improvements to Weeradana Amuna(No.1)	350,000.00	
	5	Improvements to Weli Amuna	250,000.00	
	6	Improvements to Malgaha Kotuwa	250,000.00	

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (2/29)

Name of Scheme : Palukadawela

Place : Tank

Portion	Description of Rehabilitation and Improvement Plan		Estimated cost required (Rs.)	Remarks
Anicuts	7	Improvements to Weehena Amuna	400,000.00	
	8	Improvement to Thalakola Amuna	300,000.00	
	9	Improvement to Thibbathena Amuna	300,000.00	
	10	Improvement to Weeradadana Amuna(No.2)	350,000.00	
	11	Improvement to Kontuwerwa Amuna	350,000.00	
	12	Improvement to Halmilla Ktuwa Amuna	250,000.00	
	13	Improvement to Palugaha Kotuwa Amuna	350,000.00	
	14	Improvement to Karuwala Gaha Kotuha Amuna	350,000.00	
	15	Improvement to Puranwaela Amuna	250,000.00	
	16	Improvement to Nawa Amuna	250,000.00	
	17	Proposed new anicut between Thalakola & Thibbatuhena Amuna	500,000.00	
Others	1	Construction of bridges 2 Nos.	400,000.00	
	2	Construction of causeways 4 Nos.	150,000.00	
	3	Construction of Retaining wall 60 m long	150,000.00	
Total			7,468,000.00	

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (3/29)

Name of Scheme : Palukadawela

Name of Canal : Feeder Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	808.000	1280.000	472.000		10.67	3	1:01	Desilting on canal bed	175,000.00
2								Earth Work in filling scours & washways	60,000.00
3								Gravelling to Chl. Bund road	75,000.00
								Total Tentative Civil Cost	310,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (4/29)

Name of Scheme : Palukadawela

Name of Canal : Feeder Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	803.000	Gated Regulator (E) & (I)	05 Nos.	Yes		Yes		Yes			NP- Replacement of 3 Nos. spindles	60,000.00
2	803.000	Gauge Post (N)		Yes				Yes			NP- Providing gauge post	5,000.00
3	814.000	Canal Lining (N)		Yes						NP	NP- RRM pitching on canal approach to measuring device	150,000.00
4	834.000	Measuring Device (N)		Yes						NP	NP- Provision of measuring device	300,000.00
												515,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (5/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0.000	3+300	3,300.000		3	2	1:01	Earth filling + Desilting + Edge Metaling + 2nd Carrying	500,000.00
2	3+300	5+100	1,800.000		3	2	1:01	- do -	200,000.00
3	5+100	5+540	440.000		3	2	1:01	- do -	50,000.00
4	5+540	7+640	2,100.000		3	2	1:01	- do -	350,000.00
5	7+640	10+060	2,420.000		3	2	1:01	- do -	260,000.00
6	10+060	10+210						Arasan Wewa	
7	10+060	10+210	150.000		1.8	2	1:01	Subway, Desilting Grading Road, Gravelling	280,000.00
8	10+060	11+580	1,370.000		1.8	2.5	1:01	Earth filling + Desilting + Grading & Gravelling road	425,000.00
9	11+580	12+380	800.000		1.8	2	1:01	- do -	225,000.00
10	12+380	12+800	420.000			3	1:01	Earth filling + Desilting + Grading & Gravelling road	800,000.00
11	12+800	14+400	1,600.000		1.8	2.5	1:01	Earth filling + Desilting + Grading & Gravelling road	300,000.00
12	14+400	14+590	190.000			3	1:01	- do -	500,000.00
13	14+590	15+780	1,190.000		1.8	3	1:01	- do -	250,000.00
14	15+780	16+260	420.000		1.8	3	1:01	- do -	75,000.00
									4,215,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (6/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	0.000	D/S Transition of sluice (E), (D) & (N)	-	Yes	-	-	-	-	-	Yes	No	100,000.00
2	10.000	Retaining wall - Both side (15m) (N)	-	Yes	-	-	-	-		NP	NP - RRM Rt. wall	200,000.00
3	25.000	Measuring device (N)	-	Yes	-	-	-	-	-	NP	NP - Canal Lining	150,000.00
4	250.000	TOS to Dl (E) & (I)	1/.150mm dia	Yes	-	-	Yes	-	Yes	-	NP - u/s & d/s RRM Protection	25,000.00
5	262.000	Foot bridge (E) & (I)	-	Yes	-	-	-	-	Yes	-	providing hand rails	5,000.00
6	262.000	Retaining wall (N)	-	Yes	-	-	-	-	Yes	NP	NP - Extension of RRM Rt. wall	35,000.00
7	392.000	Canal spill cum causeway (E) & (I)	-	Yes	-	-	-	-	Yes	-	No	10,000.00
8	550.000	Bridge (4.8 m wide) (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s Rt. walls	30,000.00
9	1+225	Canal. Profile (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM Protection	10,000.00
10	1+225	Foot bridge (E)	-	No	-	-	-	Yes	-	-	No	
11	1+	TOS to D2 (E) - (Closed)	-	No	Yes	-	-	Yes	-	-	No	
12	1+630	Canal. Profile (E)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM Protection	10,000.00
13	1+665	Canal spill cum causeway (E) & (I)	-	Yes	-	-	-	-	Yes	-	No	10,000.00
14	1+730	Bridge (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM Protection & providing hand rails	35,000.00
15	2+025	Canal. Profile (E)	-	Yes	-	-	-	-	-	Yes	NP - u/s & d/s RRM Protection	15,000.00
16	2+060	Canal spill cum causeway (E) & (I)	-	Yes	-	-	-	-	Yes	-	No	10,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (7/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
17	2+340	Bridge (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM Protection	30,000.00
18	2+350	Canal. Profile (E)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM Protection	10,000.00
19	2+420	Drainage under crossing (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - Canal lining	25,000.00
20	2+625	Retaining wall (N)	-	Yes	-	-	-	-	-	NP	NP - RRM Rt. wall	70,000.00
21	2+625	Bathing Spot (N)	-	Yes	-	-	-	-	-	NP	NP - RRM Work	20,000.00
22	2+840	Bridge (E) & (I)	-	Yes	-	-	-	-	Yes	-	NP - u/s & d/s RRM protection & hand rails	15,000.00
23	2+855	Canal Profile (E) & (I)		Yes						Yes	NP - u/s & d/s RRM Protection	15,000.00
24	3+125	Bathing spot (E) & (I)		No				No			No	
25	3+160	Bathing spot (E) & (I)		No				No			No	
26	3+240	TOS (E) - (Closed)		No	Yes			No			No	
27	3+255	Canal Profile (E) & (I)		No				No			No	
28	3+260	Canal spill cum causeway (E) & (I)		Yes					Yes		No	10,000.00
29	3+296	Bridge (E) & (I)		Yes					Yes		NP - u/s & d/s RRM Protection	40,000.00
30	3+297	Rt. Wall to Road (N)		Yes						NP	NP - R/m Rt. Wall	20,000.00
31	3+304	Regulator (E) & (D)		Yes	Yes					No	No - Shifted to d/s of TOS - D6	
32	3+305	TOS to D 6 (E) & (I)		Yes	Yes			-	Yes	-	NP - u/s & d/s RRM Protection	20,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (8/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
33	3+307	Gated Regulator (N)		Yes			NP			NP	NP - u/s & d/s RRM Protection	250,000.00
34	3+505	Cabal spill cum causeway (E) & (I)		Yes					Yes		No	10,000.00
35	3+990	Cabal spill cum causeway (E) & (I)		Yes					Yes		No	10,000.00
36	4+150	TOS to D 8 (E) & (I)		Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
37	4+550	Rt. Wall & Bathing spot (E) & (I)		Yes					Yes		NP - RRM work & plastering	15,000.00
38	4+580	Bridge (E) & (I)		Yes					Yes		NP - u/s & d/s RRM Protection	75,000.00
39	4+900	Canal spill cum causeway (E) & (I)		Yes					Yes		No	10,000.00
41	5+100	TOS to 9 (E) & (I)		Yes			Yes		Yes		NP - u/s & d/s RRM Protection	10,000.00
42	5+101	Regulator (E) & (D)		Yes	Yes		Yes		Yes		NP - u/s & d/s RRM Protection	150,000.00
43	5+540	TOS to 10 (E) & (I)		Yes					Yes		NP - u/s & d/s RRM Protection	20,000.00
44	5+545	Gated Regulator (N)		Yes			NP			NP	NP - u/s & d/s RRM Protection	250,000.00
45	5+655	Brifge(3.4 m wide) (E) & (I)		Yes			Yes		Yes		NP - Widening Bridge Deck	125,000.00
46	5+700	TOS to D 11 (E) & (I)	1No 225 mm dia	Yes			Yes		Yes		NP - u/s & d/s RRM Protection	25,000.00
47	6+100	Foot ridge (E) & (I)		Yes						NP	NP - RRM work	125,000.00
48	6+150	TOS to D 12 (E) & (I)	1No 150 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	30,000.00
49	6+400	Retaining Wall (N)		Yes							NP - RRM work	15,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (9/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
50	6+515	Canal Spill cum causeway (E) & (I)		No								
51	6+650	TOS to D 13 (E) & (I)	1No 225 mm dia	Yes		Yes			Yes		NP - Replace Spindle & Hume Pipe	10,000.00
52	7+180	Canal Spill corn causeway (E) & (I)		Yes					Yes		NP - Repairs to Deck Slabs	10,000.00
53	7+250	Bridge (E)		Yes					Yes		NP - u/s & d/s RRM Protection & Dr. Inlet	20,000.00
54	7+260	Canal Profile (E)		No								
55	7+430	Bathing Spots (E) & (I)		Yes					Yes	Yes	NP - RRM work & Plastering works	10,000.00
56	7+430	Retaining Wall (N)		Yes							NP - RRM work & Plastering works	25,000.00
57	7+450	Bridge (E) & (I)		Yes					Yes		NP - Widening of Bridge deck	125,000.00
58	7+490	TOS to D 15 (E) & (I)	1No 225 mm dia	No	Yes							
59	7+425	Bridge (Private)		No								
60	7+640	TOS to D16 (E) & (I)	1No 225 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	15,000.00
61	7+955	TOS to D18 (E) & (I)	1No 150 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	80,000.00
62	7+965	Bridge (E) & (I)		Yes					Yes		NP - Const. of Dr. inlet	10,000.00
63	8+010	Canal Profile (E)		No								
64	8+200	Drainage under crossing (E) & (I)		No								
65	8+325	TOS to D19 (E) & (I)	1No 150 mm dia	Yes			Yes		Yes		NP - u/s & d/s RRM Protection	15,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (10/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
66	8+330	Foot ridge (E)		No				Yes			No	
67	8+335	Canal spill on R B (E)		Yes				Yes			No	
68	8+940	TOS (E) - Closed		Yes	Yes			Yes			No	
69	8+960	Bridge (E) & (I)		Yes				Yes			NP - Providing of hand rails	6,000.00
70	9+370	Drainage under crossing (E)		Yes				Yes			No	
71	9+375	TOS to D 21 (E) & (I)	1No 150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
72	9+475	Bridge (Private)		No				Yes			No	
73	9+485	Canal Profile (E) & (I)		Yes							NP - u/s & d/s RRM Protection	15,000.00
74	9+550	TOS to D 21 (E) & (I)	1No 150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
75	9+550	Retaining Wall (E) & (I)		Yes							NP - Extension of Hoisting Arrangement	50,000.00
76	10+060	Box culvert (E) & (I)		Yes							Improvements to u/s & d/s Structure	10,000.00
77	10+177	Box culvert (Railway) (E) & (I)		Yes							Improvements to u/s & d/s Structure	10,000.00
78	10+177	Regulator (E) & (D)		Yes			NP		Yes		NP - Provision of Housing Arrangement	100,000.00
79	10+207	Box culvert		Yes								
80	10+210 10+470	Tunnel section (start) Tunnel section (end)		Yes						NP	NP - remedial measures to collapsing side slopes	1,000,000.00
81	10+600	Foot bridge (E)		Yes								

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (11/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
82	10+865	Canal Profile (E) & (I)		Yes						Yes	NP - u/s & d/s RRM Protection	20,000.00
83	10+870	Bridge (E) & (I)		Yes					Yes		NP- d/s RRM Protection	10,000.00
84	11+190	TOS to Tract 4 - FC 1	1/150 mm dia	Yes			Yes		Yes		NP - u/s & d/s RRM Protection	20,000.00
85	11+350	Drainage under crossing		Yes						Yes	NP - Canal Lining	50,000.00
86	11+530	TOS to Tract 4 - FC 2	1/150 mm dia	Yes			Yes		Yes		NP - u/s & d/s RRM Protection	20,000.00
87	11+700	Box Culvert (Nanneriya Rd) (E) & (I)		Yes				No			NP - u/s & d/s RRM Protection	10,000.00
88	11+710	Bathing spot (E) & (I)		Yes					Yes		NP - RRM work & plastering	10,000.00
89	12+520	TOS to Tr. 4 - D 1 (E) & (I)	1/300 mm dia	Yes					Yes		NP - u/s & d/s RRM Protection	20,000.00
90	12+525	Bridge (E)		Yes					Yes		NP - RRM Ret Wall	20,000.00
91	12+530	Canal spill cum causeway (E) & (I)		Yes					Yes		NP - Extension of LB & RB Ramps	20,000.00
92	12+620	Sluice from Welihiddewa	1/150 mm dia		Yes				Yes		NP - d/s RRM Protection	10,000.00
93	12+625	Bathing Spot (N)		Yes						Yes	NP - RRM work & plastering	20,000.00
94	12+680	Bathing spot (E) & (I)		Yes						Yes	NP - RRM work & plastering	20,000.00
95	12+710	Bathing spot (E) & (I)		Yes						Yes	NP - RRM work & plastering	20,000.00
96	12+790	Canal profile & Ret. Wall (E) & (I)		Yes					Yes		NP - RRM work & plastering	10,000.00
97	12+800	Bridge (E)		No								

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (12/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
98	12+815	TOS to Tr. 4 - D 2 (E) & (I)	1/300 mm dia	Yes							NP - u/s & d/s RRM Protection	20,000.00
99	12+820	Regulator (E) & (D)	2/1.05 to 1.20	Yes			Yes		Yes		NP - Providing of Hoisting arrangements & steel gates.	150,000.00
100	12+850	Bridge (3.6mm wade) (E), (D) & (N)		Yes						Yes	NP - Replace by New bridge	350,000.00
101	12+875	Canal. Profile (E)		No							No	
102	12+940	TOS to Tr. 4 - FC 71 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
103	13+350	Foot bridge (E), (D) & (N)		Yes						Yes	NP	125,000.00
104	13+400	Drainage under crossing (E) & (I)		Yes							NP - New construction of Foot Bridge	15,000.00
105	13+650	Canal profile (E)		No							No	
106	13+700	Bridge (E), (D) & (N)		Yes							NP - u/s & d/s RRM Protection	15,000.00
107	13+050	Canal profile (E)		No							No	
108	14+055	Drainage under crossing (E) & (I)		Yes			Yes				NP - u/s & d/s RRM Protection	20,000.00
109	14+250	Bridge (E) & (I)		Yes							NP - u/s & d/s RRM Protection	20,000.00
110	14+455	Bathing Spot (E), (D) & (N)		Yes						Yes	NP - Replace, RRM work & plastering	20,000.00
111	14+505	Bathing Spot (E), (D) & (N)		Yes						Yes	NP - Replace, RRM work & plastering	20,000.00
112	14+605	Regulator (Plank bay) (E) & (I) Retaining Wall (E)	1/1.65 to 1.20	Yes							NP - Improvement & provision of Hoisting arrangement & steel gates	150,000.00
113	14+615	Canal Spill cum causeway (E) & (I)		Yes			Yes		Yes			10,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (13/29)

Name of Scheme : Palukadawela

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
114	14+645	TOS to Tr. 5 - D 1 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
115	14+665	Bridge (E) & (I)		Yes							NP - u/s & d/s RRM Protection	20,000.00
116	15+185	Foot Bridge (E)										
117	15+600	TOS to Tr. 5 - D 2 (E) & (I)	2/250 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
118	15+605	Regulator (Plank bay) (E) & (I)	1/1.8 to 0.75	Yes					Yes		NP - Improvement & Provision of Hoisting arrangement & steel gates	150,000.00
119	15+800	TOS to Tr. 6 - D 2 (E) & (I)	2/600 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
120	15+810	Gated Regulator (N)	1/1.8 x 0.75	Yes			Yes			NP	NP - Construct of new gated regulator	125,000.00
121	15+015	Foot Bridge (E)		No							No	
122	16+145	Bridge (E) & (I)		Yes							NP - u/s & d/s RRM Protection	20,000.00
												5,201,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (14/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	D6 (Tract 1)								450,000.00
	D10 (Tract 1)								650,000.00
	D10/4 (Tract 2)								750,000.00
	D1 (Tract 4)								300,000.00
	D1 (Tract 5)								600,000.00
	D2 (Tract 5)								600,000.00
	D1 (Tract 6)								750,000.00
									4,100,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (15/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	D6 (Tract 1)								
1	0.000	150	150.000		0.9	0.6	1:01	Earth work 10.0m^3& Turfing & Gravelling	
2	150.000	266	116.000		1.5	0.6	1:01	Earth work 100m^3 & Turfing & Gravelling	
3	266.000	348	82.000		1.2	0.45	1:01	Earth work 100m^3 & Turfing & Gravelling	
4	348.000	402	54.000		0.9	0.75	01:01.5	Earth work in Improvements to Bund Road - 250m^3 & Gravelling	
5	402.000	441	39.000		0.9	0.6	1:01	Earth work in Improvements to Bund Road - 50m^3 & Gravelling	
6	441.000	499	58.000		0.9	0.6	1:01	Earth work in Improvements to Bund Road - 50m^3 & Gravelling	
7	499.000	629	130.000		1	0.6	1:01	Earth work in Improvements to Bund Road - 100m^3 & Gravelling	
8	629.000	786	157.000		1.5	0.9	1:01		
9	786.000	880	94.000		0.75	1.2	1:01		
10	880.000	Nil	231.000		0.6	0.6	1:01		
11	Nil	1340	229.000		0.3	0.45	1:01	Earth Work in Chl. Bunds - 200m^3 & Turfing	
12	1340.000	1430	90.000		0.3	0.15	1:01	Earth Work in Chl. Bunds - 100m^3 & Turfing	
								Total tentative Civil Cost	450,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (16/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	D10 (Tract 1)								
1	0.000	438	438.000		1.2	0.9	1:01	Earth Work improvements to bund & Gravelling	
2	438.000	687	249.000		1.2	1.5	1:01	Earth Work improvements to bund & Gravelling	
3	687.000	820	133.000		1.2	1.8	1:01	Gravelling to Bund Road	
4	820.000	1274	444.000		0.6	0.9	1:01	Earth Work in improvements to Bund & Bund Road allow 450m^3 & gravelling	
5	1274.000	1264	504.000		0.6	0.6	1:01	Earth Work in filling scours & gravelling to bund road	
								Total tentative Civil Cost	650,000.00
	D10/4 (Tract 2)								
1	0.000	910	910.000		0.9	0.9	1:01	Earth Work 360 m^3 & gravelling to bund road	
2	910.000	1000	90.000		0.75	0.9	1:01	Earth Work 100 m^3 & gravelling	
3	1000.000	1250	250.000		0.6	0.75	1:01	Improvements bunds & gravelling (400 m^3 E/W)	
4	1250.000	1400	150.000		0.6	0.6	1:01	No road required - Earth -Work - Allow 100m3	
5	1400.000	1560	160.000		0.6	0.75	1:01	Allow 50m^3 Earth Work & Gravelling	
6	1560.000	1920	360.000		0.45	0.6	1:01	Allow 200m^3 Earth Work & Gravelling	
								Total tentative Civil cost	750,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (17/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	D1 (Tract 4)								
1	0.000	400	400.000		0.9	3	1.0.5	Desilting of canal 0.15 m & grading & Gravelling Rd	
2	400.000	600	200.000		0.75	3.5	1.0.5	Desilting of canal 0.16 m & grading & Gravelling Rd	
3	600.000	720	120.000		0.9	1.75	1.0.5	Desilting of canal 0.17 m & grading & Gravelling Rd	
								Total tentative Civil cost	300,000.00
	D1 (Tract 5)								
1	0.000	60	60.000		0.9	1.5	1:01	Improvements to bund slops & Desilting & Grading & Graveling	
2	60.000	606	546.000		0.9	0.9	1:01		
3	606.000	650	44.000		0.95	0.9	1:01	Bund Road to be raised by 0.3m	
4	650.000	960	310.000		0.8	0.6	1:01		
5	960.000	1010	50.000		0.8	0.6	1:01		
6	1010.000	1454	444.000		0.7	1.7	1:01		
7	1454.000	1484	30.000		0.8	1.4	1:01	Bund Road to be raised by 0.6m	
8	1484.000	1712	228.000		0.6	0.9	1:01		
								Total tentative Civil cost	600,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (18/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
	D2 (Tract 5)								
1	0.000	387	387.000		1	0.9	1:01	Main Repairs to bund & Desilting & Gravelling & Gravelling	
2	387.000	806	419.000		0.9	1	1:01	(allow 10 m3 /100m for minor raps) - do -	
3	806.000	1365	559.000		0.9	1.4	1:01	- do - - do -	
4	1365.000	1770	405.000		0.75	0.9	1:01	- do - - do -	
5	1770.000	2038	268.000		0.6	0.65	1:01	- do - - do -	
								Total tentative Civil cost	600,000.00
	D1 (Tract 6)								
1	0.000	100	100.000		1.5	1.2	1:01		
2	100.000	280	180.000			1.5	1:01	Water pool - Improvements to bund slops	
3	280.000	522	242.000		1.2	1.2	1:01	Improvements to chl. Bund. - Grading & Gravelling bund Rd	
4	522.000	773	250.000		0.9	1.8	1:01	- do -	
5	773.000	812	39.000		0.9	0.9	1:01	- do -	
6	812.000	1261	449.000		0.9	0.7	1:01	- do -	
7	1261.000	1894	633.000		0.6	0.7	1:01	- do -	
8	1894.000	1925	31.000		0.45	0.7	1:01	- do -	
								Total tentative Civil cost	750,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (19/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	D10 (Tract 2)											199,000.00
	D10/4 (Tract 2)											262,000.00
	D1 (Tract 5)											101,000.00
	D2 (Tract 5)											183,000.00
	D1 (Tract 6)											328,000.00
												1,073,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (20/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	D10 (Tract 2)											
1	0.000	D/S Structure		Yes							NP - d/s & RRM Protection	10,000.00
2	7.500	CPO to FC (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
3	41.000	Canal Lining (E) & (I)		Yes					Yes		NP - Extension of Canal lining	20,000.00
4	84.500	FTO		No							No	
5	90.000	CPO to FC2 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
6	106.000	Regulator (E), (D) & (N)		Yes						Yes	NP - Construction of new	15,000.00
7	225.000	Foot Bridge		No							No	
8	342.000	CPO to FC 3 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
9	438.000	CPO to D 10 - 4 (E) & (I)	1/50 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
10	439.000	Regulator		No							No	
11	465.800	CPO to FC 5 (E) & (T)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
12	687.000	Box Culvert		No							No	
13	735.000	Ret. Wall		No							No	
14	739.300	CPO to FC6 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
15	827.000	FTO		No							No	
16	870.000	Box Culvert	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (21/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
17	872.000	CPO to FC 8 (E) & (I)		No							No	
18	876.000	Box Culvert		No							No	
19	886.000	CPO to FC 8 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
20	890.000	Regulator		No							No	
21	949.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
22	1027.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
23	1092.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
24	1150.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
25	1233.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
26	1250.000	Canal Lining (N)		Yes						NP	Concrete lining	30,000.00
27	1261.000	Drainage under crossing (E)		No							No	
28	1264.000	Pipe culvert (E)		No							No	
29	1274.000	CPO to FC 9 (E) & (I)	1/375 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
30	1399.000	FTO		No							No	
31	1508.000	CPO to FC 10 (E) & (I)	1/375 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
32	1512.000	FTO (E)		No							No	
33	1551.000	Box Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (22/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
34	1562.000	CPO to FC 11 (E) & (I)	1/375 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
35	1778.000	Box Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
												199,000.00
	D10/4 (Tract 2)											
1	0.000	D/S structure									NP - d/s RRM protection	4,000.00
2	8.000	Canal Lining (E) & (N)		Yes					Yes	NP	NP - Extension of Canal Lining	30,000.00
3	122.000	CPO FC 0 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
4	156.000	FTO (E)		No							No	
5	170.000	Drop structure (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
6	190.000	FTO (E)		No							No	
7	208.000	Drop structure (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
8	230.000	FTO (E)		No							No	
9	234.000	Drop structure (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
10	291.000	FTO (E)		No							No	
11	293.000	FTO (E)		No							No	
12	309.000	Drop structure (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
13	327.000	FTO (E)		No							No	

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (23/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
14	330.000	Drop structure (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
15	480.000	CPO FC 1 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
16	484.000	Box Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
17	491.000	Ret. Wall (E)		No							No	
18	497.000	FTO (E)		No							No	
19	555.000	FTO (E)		No							No	
20	596.000	Pipe Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
21	603.000	Ret. Wall		No							No	
22	606.000	CPO to FC 2 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
23	698.000	FTO (E)		No							No	
24	820.000	CPO to FC 3 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
25	870.000	Drop structure (E) & (I)		Yes					Yes		NP - u/s RRM Protection	4,000.00
26	876.000	Canal Lining		No							No	
27	886.000	Drop structure (E) & (I)		Yes					Yes		NP - u/s RRM Protection	4,000.00
28	891.000	Canal Lining		No							No	
29	913.000	Pipe Culvert		Yes							NP - u/s & d/s RRM Protection	8,000.00
30	931.000	CPO to FCC 4,5 (E) & (I)	2/150 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (24/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
31	932.000	Drop structure (E) & (I)		Yes					Yes		NP - u/s RRM Protection	4,000.00
32	968.000	Drop structure (E) & (I)		Yes					Yes		NP - u/s RRM Protection	4,000.00
33	1013.000	Drop structure (E) & (I)		Yes					Yes		NP - u/s RRM Protection	4,000.00
34	1050.000	FTO (E)		No							No	
35	1066.000	FTO (E)		No							No	
36	1076.000	Drop structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
37	1104.000	FTO (E)		No							No	
38	1185.000	FTO (E)		No							No	
39	1176.000	Pipe Culvert		Yes							NP - u/s & d/s RRM Protection	8,000.00
40	1251.000	FTO (E)		No							No	
41	1332.000	Canal Lining (E) & (N)		Yes					Yes	NP	NP - Replace & Extension to Canal Lining	40,000.00
42	1385.000	Drainage under crossing (E)		No							No	
43	1391.000	Pipe Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
44	1411.000	Pipe Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
45	1423.000	Canal Lining (E)		No							No	
46	1483.000	FTO (E)		No							No	
47	1488.000	CPO to FC 6 (E) & (I)	1/225 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (25/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
48	1507.000	FTO (E)		No							No	
49	1522.000	FTO (E)		No							No	
50	1557.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
51	1558.000	CPO to FC 7 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
52	1558.000	CPO to FC 8 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
53	1914.000	Pipe Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
												262,000.00
	D1 (Tract 5)											
1	0.000	D/S Structure		Yes							NP - u/s & d/s RRM Protection	8,000.00
2	53.000	CPO to FC 1 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
3	606.000	CPO to FC 2 (E) & (I)	1/150 mm dia	Yes			Yes		Yes		NP - Replace gate & Improvement. Structure	15,000.00
4	994.000	Pipe culvert (N)		Yes						NP	NP - Construction of new culvert	30,000.00
5	101.000	CPO to FC 3 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
6	1040.000	Pipe culvert		Yes							NP - u/s & d/s RRM Protection	8,000.00
7	1455.000	Drainage under crossing		No							No	
8	1484.000	CPO to FC 4 (E) & (I)	1/225 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
9	1711.000	CPO to FC 5 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (26/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
10	1712.000	CPO to FC 6 (E) & (I)	1/600 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
												101,000.00
	D2 (Tract 5)											
1	0.000	D/S Structure										
2	59.000	CPO to FC 1 (E) & (I)	1/225 mm dia	Yes	Yes						NP - u/s & d/s canal lining	10,000.00
3	387.000	Box Culvert		Yes						NP	Const. of culvert	35,000.00
4	480.000	Causeway (E) & (I)		Yes	Yes					NP	Const. of causeway	50,000.00
5	806.000	CPO to FC 2 (E) & (I)	1/225 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
6	1066.000	CPO to FC 3 (E) & (I)	1/150 mm dia	Yes							NP - u/s & d/s RRM Protection	8,000.00
7	1076.000	Pipe Culvert (E)		Yes							No	
8	1364.000	CPO to FC 4 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
9	1459.000	CPO to FC 5 (E) & (I)	1/375 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
10	1462.000	CPO to FC 6 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
11	1670.000	CPO to FC 7 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
12	1676.000	CPO to FC 8 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
13	1679.000	Drop structure (E)	1/150 mm dia	Yes							No	
14	1735.000	Drop structure (E)		Yes							No	

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (27/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
15	1778.000	CPO to FC 9 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
16	1778.000	CPO to FC 10 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
17	1778.000	Drop structure (E)		Yes							No	
18	1849.000	Drop structure (E)		Yes							No	
19	1940.000	CPO to FC 11 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
20	1940.000	CPO to FC 12 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
21	1940.000	Regulator (stop Plank)		Yes							No	
												183,000.00
	D1 (Tract 6)											
1	0.000	D/S Structure		No								
2	160.000	Bathing Spots (N)		Yes							NP - RRM work & plastering	15,000.00
3	409.000	CPO to FC 1 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
4	522.000	CPO to FC 2 (E) & (I)	1/300 mm dia	Yes			Yes			Yes	NP - u/s & d/s RRM Protection	25,000.00
5	523.000	Ret. Wall on RB (N)		No								60,000.00
6	530.000	Box Culvert (N)		Yes						NP	NP - u/s & d/s RRM Protection	30,000.00
7	588.000	CPO to FC 3 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
8	659.000	CPO to FC 4 (E) & (I)	1/150 mm dia	Yes			Yes			Yes	NP - u/s & d/s RRM Protection	25,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (28/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
9	698.000	Canal Lining		No								
10	702.000	CPO to FC 5 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
11	705.000	Drop Structure		Yes							NP - u/s & d/s RRM Protection	4,000.00
12	773.000	CPO to FC 6 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
13	812.000	Drop Structure		Yes							NP - u/s RRM Protection	4,000.00
14	818.000	CPO to FC 7 (E) & (I)	1/150 mm dia	Yes			Yes			Yes	NP - u/s & d/s RRM Protection	25,000.00
15	854.000	Drop Structure		Yes							NP - u/s RRM Protection	4,000.00
16	866.000	CPO to FC 8 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
17	890.000	Drop Structure		Yes							NP - u/s RRM Protection	4,000.00
18	921.000	Drop Structure		Yes							NP - u/s RRM Protection	4,000.00
19	1044.000	Drop Structure		Yes							NP - u/s RRM Protection	4,000.00
20	1219.000	CPO to FC 9 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
21	1224.000	Canal Lining (E)		No								
22	1230.000	Drop Structure (E) & (I)	1/225 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
23	1261.000	CPO to FC 9 (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
24	1267.000	Pipe Culvert (E) & (I)		Yes							NP - u/s & d/s RRM Protection	8,000.00
25	1350.000	CPO to FC 9 A (N)	1/150 mm dia	Yes			NP			NP	NP - u/s & d/s RRM Protection	8,000.00

Table TA-3 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Irrigation Department (29/29)

Name of Scheme : Palukadawela

Name of Canal : D-Canal (managed by Irrigation Department), Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
26	1355.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
27	1678.000	CPO to FC 10 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
28	1727.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
29	1789.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
30	1833.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
31	1894.000	CPO to FC 11 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
32	1895.000	Drop Structure (E) & (I)		Yes							NP - u/s RRM Protection	4,000.00
33	1921.000	CPO to FC 12 (E) & (I)	1/300 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	8,000.00
34	1925.000	Pipe Culvert (E)		Yes								
												328,000.00

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (1/23)

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 Length about - 400 meters, width 12 ft	Filling earth	Included in rehabilitation plan of Irrigation Department of Main canal						
			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. Side concrete blocks 18 nos. (3' ft 1 1/2' ft x 2' ft)	Concrete	46 cu	377,200	Skilled	46 days	12,650	
							Labors	357 days	62,475	62,475
				Earth works	46 cu		Labors	102 days	17,850	17,850
				Slide gate dia. 300	23 nos	264,500				
				HP dia.12"	460 ft	161,000				
				Removing	23 nos		Labors	51 days	8,925	8,925
	Sub-total					802,700			92,975	80,325
	Grand-total					895,675				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (2/23)

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 (pipe inlet)	24 ft long	HP dia. 6 inch Concrete Earth works Metal	24 ft 1 cu 1 cu 1 cu	5,040 8,200 2,600	Skilled Labors Labors Labors	1 days 8 days 2 days 2 days	275 1,400 350 350	 1,400 350 350
3	D9 canal outlet to lot no. 79	- as mentioned above-	as mentioned above	HP dia. 6 inch Concrete Earth works Metal	24 ft 1 cu 1 cu 1 cu	5,040 8,200 2,600	Skilled Labors Labors Labors	1 days 8 days 2 days 2 days	275 1,400 350 350	 1,400 350 350
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 (earth filling)	Length 500m W 3 m	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
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 Labors	113 days 16 days	19,775 2,800	19,775 2,800

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (3/23)

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.)
10	D10/7 canal road	As per no.5	As per no.5	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
11	D10/7 canal outlet to lot no. 157	As per no.2	As per no.2	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
12	D10/7 canal outlet to lot no. 158	As per No.11	As per No.11	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
13	D10/7 canal outlet to lot no. 159	As per No.11	As per No.11	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
14	D10/7 canal outlet to lot no. 160	As per No.11	As per No.11	HP dia. 6 inch	24 ft	5,040				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
15	D 10/7 canal outlet upper lot	Pipe outlet	Length 30' ft 6" inches dia pipes	HP dia. 6 inch	30 ft	6,300				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
16	D 10/8 canal road	As per No. 5	Length 500m, W 10' ft	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
17	D10/9 canal road	As per No. 5	Length 600m, W 10' ft	Earth works	95 cu	47,500	Labors	211 days	36,925	36,925
				Gravel	64 cu	128,000	Labors	142 days	24,850	24,850

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (4/23)

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.)
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 D10/Tract 2						
19	Side wall near drain pipe of D10/9 canal	- do -	- do -	Concrete	1 cu	8,200	Skilled	1 days	275	275
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
				Removing	3 m		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
							Labors	16 days	2,800	2,800
				Earth works	5 cu		Labors	11 days	1,925	1,925
				Metal	1 cu	2,600	Labors	2 days	350	350
			Gate	Concrete	2 cu	16,400	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	2 cu		Labors	4 days	700	700
				Slide Gate 1000x500	1 nos	300,000				
21	D10/10 canal road	Clear the road of scrub and grass earth filling and compacting and compact with gravel by roller.	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	
							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
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	
							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

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (5/23)

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.)
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	
							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
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	
							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
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	
							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
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	
							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
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	
							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

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (6/23)

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.)
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
35	Inlet pipe to lot 165	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
36	Inlet pipe to lot 166	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
37	Inlet pipe to lot 167	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
38	D10/4/FC7 Road	Sama 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
39	D10/4/FC7 Right canal bund	Same as No. 9	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
40	D10/4/FC7 side wall at the beginning of canal	Same as No. 18	Length 3m x both sides = 6m	Concrete	1 cu	8,200	Skilled	1 days	275	275
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
				Removing	3 m		Labors	3 days	525	525

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (7/23)

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.)
41	D10/4/FC8 door and rod	Same as No. 4	Door and rod	Concrete	2 cu	16,400	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	2 cu		Labors	4 days	700	700
				Slide gate dia. 300	1 nos	11,500				
				HP dia.12"	20 ft	7,000				
42	D10/4/FC8 canal bund	Same as No. 6	Length 70m x both side = 140m	RRM	8 cu	25,600	Skilled	6 days	1,650	
							Labors	40 days	7,000	7,000
				Earth works	35 cu		Labors	78 days	13,650	13,650
				Metal	2 cu	5,200	Labors	4 days	700	700
				Plaster	11 sq	4,069	Skilled	8 days	2,200	
							Labors	11 days	175	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	6 ft	1,260				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
45	D10/FC12/1 canal road	Same as No. 5	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
46	D10/FC12 canal road	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
47	D10/FC12 side wall at the beginning of canal	Same as No. 18	Length 3 x both sides = 6m	Concrete	1 cu	8,200	Skilled	1 days	275	275
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
				Removing	3 m		Labors	3 days	525	525

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (8/23)

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.)
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
48	Inlet pipe to lot 241						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
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
49	Inlet pipe to lot 242						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
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
50	Inlet pipe to lot 249						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
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
51	Inlet pipe to lot 251						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
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
52	Inlet pipe to lot 252						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
		Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
53	Inlet pipe to lot 254						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

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (9/23)

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.)
54	Inlet pipe to lot 244	Same as No. 23	Length 12' ft	HP dia. 6 inch	12 ft	2,520				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
55	Inlet pipe to lot 245	Same as No. 23	Length 12' ft	HP dia. 6 inch	12 ft	2,520				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
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.	HP dia. 450mm	30 ft	16,200				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
			RRN wall L 9 m, H 2 ft	RRM	1 cu	3,200	Skilled	1 days	275	
							Labors	5 days	875	875
				Earth works	5 cu		Labors	11 days	1,925	1,925
				Metal	1 cu	2,600	Labors	2 days	350	350
57	D10/4 to Weherayaya canal Road (D10)	Same as No. 5	Length 3 km, W 10' ft	Earth works	477 cu	238,500	Labors	1059 days	185,325	185,325
				Gravel	318 cu	636,000	Labors	706 days	123,550	123,550
58	Inlet Pipe Lot 106	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (10/23)

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.)
59	Inlet Pipe Lot 107	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
60	Inlet Pipe Lot 108	Same as No. 11	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
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	233 cu	116,500	Labors	517 days	90,475	90,475
				Turfing	15 sq		Labors	10 days	1,750	1,750
62	Road from Lot 98 to Lot 108	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
	Sub-total					5,825,899			1,354,050	1,340,300
	Grand-total					7,179,949				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (11/23)

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 Keenyaganwanguwa	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	
							Labors	78 days	13,650	13,650
				Earth works	25 cu		Labors	56 days	9,800	9,800
				Slide gate dia. 300	5 nos	57,500				
				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	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225
		Construction of a line of steps		Concrete	1 cu	8,200	Skilled	1 days	275	
							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
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	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	Labors	7 days	1,225	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	
							Labors	170 days	29,750	29,750
				Earth works	100 cu	50,000	Labors	222 days	38,850	38,850
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225
		2 bathing steps		Concrete	10 cu	82,000	Skilled	10 days	2,750	
							Labors	78 days	13,650	13,650
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	700

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (12/23)

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.)
7	D2	Construction of side walls	H 2ft L 100 m	RRM	15 cu	48,000	Skilled	11 days	3,025	
							Labors	75 days	13,125	13,125
				Earth works	50 cu		Labors	111 days	19,425	19,425
				Metal	3 cu	7,800	Labors	7 days	1,225	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	
							Labors	16 days	2,800	2,800
				Earth works	5 cu		Labors	11 days	1,925	1,925
				Slide gate dia. 300	1 nos	11,500				
				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				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	1 cu	2,600	Labors	2 days	350	350
	Sub-total					681,400			335,300	312,200
	Grand-total					1,016,700				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (13/23)

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				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (14/23)

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.)
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		0	0
	Grand-total				0			

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (15/23)

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' participatio
				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" inches	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	
							Labors	16 days	2,713	2,713
				Earth works	2 cu		Labors	4 days	777	777
				Metal	1 nos	11,500				
				HP dia. 600mm	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	
							Labors	65 days	11,375	11,375
				Earth works	23 cu		Labors	51 days	8,925	8,925
				Metal	1 cu	2,600	Labors	2 days	350	350
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	1 days	275	
							Labors	5 days	875	875
				Earth works	3 cu		Labors	7 days	1,225	1,225
				Metal	1 cu	2,600	Labors	2 days	350	350
9	FC 1/1 canal	Construction of basin and repairs to pipe line	L 12' ft, W 1' ft, H 3' ft	Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
				HP dia.6"	10 ft	2,100				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (16/23)

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' participatio
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
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	1 days	275	
							Labors	5 days	875	875
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
				2' ft concrete	2 cu	16,400				
				Reinforced bar	280 kg	16,800				
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	
							Labors	40 days	7,000	7,000
				Earth works	20 cu		Labors	44 days	7,700	7,700
				Metal	2 cu	5,200	Labors	4 days	700	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. 600mm	6 ft	4,200				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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	
							Labors	15 days	2,625	2,625
				Earth works	8 cu		Labors	18 days	3,150	3,150
				Metal	1 cu	2,600	Labors	2 days	350	350
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	10 days	2,750	
							Labors	65 days	11,375	11,375
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	700
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. 600mm	8 ft	5,600				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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. 600mm	24 ft	16,800				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
18	D1 canal above FC4	Construction of bund with earth filling	L 75' ft, W 8' ft, H 2' ft	Earth works	8 cu	2,000	Labors	18 days	3,150	3,150

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (17/23)

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' participatio
				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	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
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 works	40 cu	20,000	Labors	89 days	15,575	15,575
				Concrete	12 cu	98,400	Skilled	12 days	3,300	
							Labors	93 days	16,275	16,275
				Metal	13 cu	33,800	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	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	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. 600mm	24 ft	16,800				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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 canal)	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	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
26	D2 - FC1 Paddy lot	Rehabilitate bund by earth filling	L 100' ft, W 3' ft	Earth works	10 cu	2,500	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	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (18/23)

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' participatio
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
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. 600mm	8 ft	5,600				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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. 600mm	8 ft	5,600				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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. 600mm	24 ft	16,800				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
31	D2 canal FC 1/2	Rehabilitation of canal bund with earth filling both sides about 500' ft below second drain	L 500' ft W 12' ft road side W 6'ft other side	Earth works	52 cu	13,000	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 works	17 cu	4,250	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. 6 inch	24 ft	5,040				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	2 cu		Labors	4 days	700	700
				Metal	2 cu	5,200	Labors	4 days	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	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	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	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	6 cu		Labors	13 days	2,275	2,275
				Metal	1 cu	2,600	Labors	2 days	350	350

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (19/23)

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' participatio
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
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. 6 inch Concrete Earth works Metal	24 ft 2 cu 2 cu 2 cu	5,040 16,400 5,200	 Skilled Labors Labors Labors	 2 days 16 days 4 days 4 days	 550 2,800 700 700	 2,800 700 700
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. 600mm Concrete Earth works Metal	6 ft 2 cu 2 cu 1 cu	4,200 16,400 2,600	 Skilled Labors Labors Labors	 2 days 16 days 4 days 2 days	 550 2,800 700 350	 2,800 700 350
			Side wall H 4' ft , W 1' ft L 126 ft	RRM Earth works Metal	11 cu 19 cu 2 cu	35,200 5,200	Skilled Labors Labors Labors	8 days 55 days 42 days 4 days	2,200 9,625 7,350 700	 9,625 7,350 700
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	HP dia. 6 inch Concrete Earth works Metal	3 ft 1 cu 1 cu 1 cu	630 8,200 2,600	 Skilled Labors Labors Labors	 1 days 8 days 2 days 2 days	 275 1,400 350 350	 1,400 350 350
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. 600mm Concrete Earth works Metal	8 ft 2 cu 2 cu 1 cu	5,600 16,400 2,600	 Skilled Labors Labors Labors	 2 days 16 days 4 days 2 days	 550 2,800 700 350	 2,800 700 350
41	FC16 from 2nd water	Reduce the depth of canal and augment the	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 Gravel	588 cu 392 cu	294,000 784,000	Labors Labors	1305 days 870 days	228,375 152,250	228,375 152,250
			D1 FC all field canals : L 7995' ft, W 12' ft	Earth works Gravel	465 cu 310 cu	232,500 620,000	Labors Labors	1032 days 688 days	180,600 120,400	180,600 120,400
			D2 canal : L 8203' ft, W 18' ft	Earth works Gravel	716 cu 477 cu	358,000 954,000	Labors Labors	1590 days 1059 days	278,250 185,325	278,250 185,325
			D2 FC all field canals : L 8500' ft, W 12' ft	Earth works Gravel	494 cu 330 cu	247,000 660,000	Labors Labors	1097 days 733 days	191,975 128,275	191,975 128,275

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (20/23)

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' participatio
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
43	FC 3/16 canal	Leveling the pipe line, Re- adjust the pipes	Length 18' ft	HP dia. 6 inch	18 ft	3,780				
				Concrete	1 cu	8,200	Skilled	1 days	275	
							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
44	FC 3/16 canal	Lowering the upper step of first water lowering point	Length 15" inches, W 4" inches, H 4" inches	Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
45	FC 6/17 canal	Construction of a culvert	L 10' ft, W 8' ft, H 2' ft	HP dia. 300mm	10 ft	3,500				
				Concrete	2 cu	16,400	Skilled	2 days	550	
							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
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	Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
47	Connected with map ref no. 46 - drainage canal to above pond	- do -	- do -	Concrete	1 cu	8,200	Skilled	1 days	275	
							Labors	8 days	1,400	1,400
				Earth works	2 cu		Labors	4 days	700	700
				Metal	1 cu	2,600	Labors	2 days	350	350
	Sub-total					5,128,840			1,758,715	1,734,240
	Grand-total					6,887,555				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (21/23)

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. SuiTable TA-4 to use backhoe to remove soil	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	Rip rap	21 cu	63,000	Labors 47 days		8,225	8,225
			Bathing step : 3m long and 2m wide	Concrete	3 cu	24,600	Skilled 3 days		825	
							Labors 23 days		4,025	4,025
				Earth works	15 cu		Labors 33 days		5,775	5,775
				Metal	1 cu	2,600	Labors 2 days		350	350
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
				Metal	4 cu	10,400	Labors 9 days		1,575	1,575
	Sub-total					561,100			253,750	251,825
	Grand-total					814,850				

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (22/23)

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	22,400	Skilled	5 days	1,375	
							Labors	35 days	6,125	6,125
				Earth works	3 cu		Labors	7 days	1,225	1,225
				Metal	2 cu	5,200	Labors	4 days	700	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 canal	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	6,400	Skilled	2 days	550	
							Labors	10 days	1,750	1,750
				Earth works	6 cu		Labors	13 days	2,275	2,275
				Metal	1 cu	2,600	Labors	2 days	350	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	41,000	Skilled	5 days	1,375	
							Labors	39 days	6,825	6,825
				Reinforced bar	708 kg	42,450				
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	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	41,000	Skilled	5 days	1,375	
							Labors	39 days	6,825	6,825
				Reinforced bar	708 kg	42,450				
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	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						

Table TA-4 Rehabilitation Plan & Cost Estimation for Palukadawela Scheme Proposed by Farmers' Organization (23/23)

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.)
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	188,800	Skilled	44 days	12,100	
							Labors	295 days	51,625	51,625
				Earth works	200 cu		Labors	444 days	77,700	77,700
				Metal	13 cu	33,800	Labors	29 days	5,075	5,075
26	Palugaha Kotuwa	Construction of a causeway below anicut		Concrete	5 cu	41,000	Skilled	5 days	1,375	
							Labors	39 days	6,825	6,825
				Reinforced bar	708 kg	42,450				
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	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 Kubunkgahe anicut		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 bridge		Included in rehabilitation plan of Irrigation Department of Anicut improvement						
	Sub-total					542,150			290,450	272,300
	Grand-total					832,600				

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (1/11)

Name of Scheme : Periyakulama

Place : Tank

Portion		Description of Rehabilitation and Improvement Plan	Estimated cost required (Rs.)	Remarks
Tank Bund	1	Earth work in tank bund where necessary	2,784,000.00	
	2	Strip turfing to new earth work along tank bund	400,000.00	
	3	Gravelling along the tank bund	600,000.00	
	4	Rip - rap to U/S tank bund slope where necessary	900,000.00	
Sluices	1	Removing and replacement of new 03 Nos. tower sluice	600,000.00	
Spillway	1	Proposed spill tail canal RB1 & RB2 & LB - 2 Nos. Canal	2,000,000.00	
Others	1	Improvements to 2 Nos. of approaches from village to tank bund widening existing box culvert at LB	1,400,000.00	
	2	Earth work reduction for approaches to RB & LB tower sluice.	800,000.00	
		Total=	9,484,000.00	

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (2/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0.0m.	330m.	330.000	0.45	1.23	1.15	0.1:01.5	Const. of R/Wall is under structure's page	
2	330m.	730m.	400.000	0.3	1.23	0.92	0.1:01.5	Improvement. to main canal E/W & turfing	600,000.00
3	730m.	1250m.	520.000	0.15	0.76	0.64	0.1:01.5	- do -	700,000.00
4	0.0m.	330m.	330.000	0.45	1.23	1.15	0.1:01.5	Proposed road way including gravelling	1,200,000.00
5	0.0m.	2000m	2,000.000	0.15	0.76	0.64	0.1:01.5	Improvement. to D - canal at 18.5m main canal	900,000.00
6	0.0m.	350m.	350.000	0.12	0.76	0.64	0.1:01.5	Improvement. to D - canal at main canal - 600m	500,000.00
7	0.0m.	1.200m.	1,200.000	0.06	0.76	0.64	0.1:01.5	Improvement. to D - canal at 1.250m in main canal	700,000.00
									4,600,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (3/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	LL M-Canal											
1	3.8 m	Proposed T.O.	6" dia. - 1 no	Yes	-	-	x	-	-	x	(Feeds 3.0acs.)	30,000.00
2	40.0 m	Replacement of farm crossing	Box culvert	Yes	-	-	-	-	-	-	Existing poor condition	26,000.00
3	85.0 m	Replacement of box culvert	Box culvert	Yes	-	-	-	-	-	-	Existing poor condition	26,000.00
4	129.0 m	Turnout (proposed)	01 no. -9" dia.	Yes	-	-	x	-	-	x	Feeds 20.0 acs.	30,000.00
5	170.0 m	Regulator (proposed)	4'-0" x 4'-0"	Yes	-	-	x	-	-	x	Wooden gated	70,000.00
6	246.0 m	Turnout (proposed)	01 no. -18" dia.	Yes	-	-	x	-	-	x	Feeds 150.0 acs.	40,000.00
7	300.0 m	Box culvert (proposed)	4'-0" x 4'-0"	Yes	-	-	-	-	-	-	Road to field	30,000.00
8	430.0 m	Box culvert (proposed)	4'-0" x 4'-0"	Yes	-	-	-	-	-	-	Road to temple	30,000.00
9	480.0 m	Turnout (proposed)	01 no. -9" dia.	Yes	-	-	x	-	-	x	Feeds 15.0 acs.	30,000.00
10	500.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 4.0 acs.	26,000.00
11	600.0 m	Turnout (proposed)	01 no. -18" dia.	Yes	-	-	x	-	-	x	Feeds 125.0 acs.	40,000.00
12	750.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 6.0 acs.	26,000.00
13	800.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 6.0 acs.	26,000.00
14	810.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 8.0 acs.	26,000.00
15	840.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 9.0 acs.	26,000.00
16	1,000.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 6.0 acs.	26,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (4/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
17	1,070.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 5.0 acs.	26,000.00
18	1,100.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 5.0 acs.	26,000.00
19	1,150.0 m	Turnout (proposed)	01 no. -9" dia.	Yes	-	-	x	-	-	x	Feeds 25.0 acs.	30,000.00
20	1,200.0 m	Turnout (proposed)	01 no. -6" dia.	Yes	-	-	x	-	-	x	Feeds 4.0 acs.	26,000.00
21	1,350.0 m	Turnout (proposed)	01 no. -9" dia.	Yes	-	-	x	-	-	x	Feeds 25.0 acs.	30,000.00
22	1,700.0 m	Turnout (proposed)	01 no. -9" dia.	Yes	-	-	x	-	-	x	Feeds 46.0 acs. (left)	30,000.00
23	1,600.0 m	Farm crossing (proposed)	H.P. 2' dia.	Yes	-	-	-	-	-	-	Farm crossing culvert	25,000.00
24	1,000.0 m	Farm crossing culvert	H.P. 2' dia.	Yes	-	-	-	-	-	-	Culvert	25,000.00
25	0 - 700.0 m	Retaining wall		Yes	-	-	-	-	-	-	Retaining wall (700m)	1,500,000.00
	LL D-Canal 1(at 246m)											
1	10.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
2	110.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
3	200.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
4	300.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
5	400.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
6	500.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
7	600.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (5/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
8	700.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
9	800.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
10	900.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
11	1,000.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
12	1,100.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
13	1,200.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
14	1,300.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
15	1,400.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
16	1,500.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
17	1,600.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
18	1,700.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
19	1,800.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
20	1,900.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
21	500.0 m	Tractor crossing	2" dia 16' long	Yes			x			x		30,000.00
22	900.0 m	Tractor crossing	2" dia 16' long	Yes			x			x		30,000.00
23	1,400.0 m	Tractor crossing	2" dia 16' long	Yes			x			x		30,000.00
24	1,900.0 m	Tractor crossing	2" dia 16' long	Yes			x			x		30,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (6/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	LL D-Canal 2 (at 600m)											
1	10.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
2	100.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
3	200.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
4	300.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
5	400.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
6	500.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
7	600.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
8	700.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
9	800.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
10	900.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
11	1,000.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
12	1,100.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
13	700.0 m	Tractor crossing	2' dia. H.P. 16'-0"	Yes			x			x		30,000.00
14	1,000.0 m	Tractor crossing	2' dia. H.P. 16'-0"	Yes			x			x		30,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (7/11)

Name of Scheme : Periyakulama

Name of Canal : Centre Low Level M-Canal & D-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
	LL D-Canal 3 (at 1,700m)											
1	10.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
2	100.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
3	200.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
4	300.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
5	400.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
6	500.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
7	600.0 m	Farm turnout	6" dia.	Yes			x			x		6,000.00
8	200.0 m	Tractor crossing	2' dia. H.P. 16'-0"	Yes			x			x		30,000.00
9	400.0 m	Tractor crossing	2' dia. H.P. 16'-0"	Yes			x			x		30,000.00
												2,700,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (8/11)

Name of Scheme : Periyakulama

Name of Canal : LB High Level F-Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0m.	1400m.	1400m.	0.050	0.76	0.67m.	01:01.5	Improvement. To H.L. - LB field canal	700,000.00
2	400m.	1000m.	600m.	0.050	0.76	0.67m.	01:01.5	Proposed drainage canal to avoid water flows to L.L. main canal	500,000.00
									1,200,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (9/11)

Name of Scheme : Periyakulama

Name of Canal : LB High Level F-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	600.000	Farm Turnout	6" dia	Yes			x			x	F.T.O 1.0 No. - 5.0 Acs.	6,000.00
2	700.000	Farm Turnout	6" dia	Yes			x			x		6,000.00
3	800.000	Farm Turnout	6" dia	Yes			x			x		6,000.00
4	900.000	Farm Turnout	6" dia	Yes			x			x		6,000.00
5	1000.000	Farm Turnout	6" dia	Yes			x			x		6,000.00
6	1100.000	Farm Turnout	6" dia	Yes			x			x		6,000.00
7	700.000	Tractor crossing	2' dia. H.P. - 16' - 0"	Yes			x			x		30,000.00
8	1100.000	Tractor crossing	2' dia. H.P. - 16' - 0"	Yes			x			x		30,000.00
9		Over crossing	2' dia. - 16' - 0"	Yes			x			x		50,000.00
												146,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (10/11)

Name of Scheme : Periyakulama

Name of Canal : RB High Level F-Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0m.	1150m.	1150m.	0.056	0.76	0.67	01:01.5	Improvements to RB Canal	700,000.00
									700,000.00

Table TA-5 Rehabilitation Plan & Cost Estimation for Periyakulama Scheme Proposed by Irrigation Department (11/11)

Name of Scheme : Periyakulama

Name of Canal : RB High Level F-Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	3.000	Farm Turnout	6" dia	Yes			x			x	F.T.O. for 5.0Acs.	6,000.00
2	4.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
3	5.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
4	6.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
5	7.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
6	8.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
7	9.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
8	10.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
9	11.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
10	12.000	Farm Turnout	6" dia	Yes			x			x	- do -	6,000.00
11	5.000	Over crossing	2" dia x 20'	Yes			x			x	FC 2' dia x 20'	50,000.00
12	6.000	Tractor crossing	2" dia x 16'0	Yes			x			x	T/C	30,000.00
13	7.000	Tractor crossing	- do -	Yes			x			x	- do -	30,000.00
												170,000.00

Table TA-6 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			

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (1/7)

Name of Scheme : Maha Nanneriya

Place : Tank & Anicut

Portion		Description of Rehabilitation and Improvement Plan	Estimated cost required (Rs.)	Remarks
Tank Bund	1	E/W in forming bund at low sections, scours & washways	150,000.00	
	2	Gravelling tank Bund Road	80,000.00	
	3	Improvement to Rip - rap protection	750,000.00	
	4	Improvement to Conc. Slap protection	250,000.00	
	5	provision of toe - filter	200,000.00	
Sluices	1	Improvements to tower and approach of the sluice & fixing gauge post	200,000.00	
	2	Improvements to d/s transition structure	75,000.00	
	3	provision of measuring device	50,000.00	
Spillway	1	Provision of u/s cut - off wall	100,000.00	
	2	Improvements to d/s water cushion	250,000.00	
	3	Improvements to abutments	75,000.00	
Others	1	Improvements to Elakiri Hamige Amuna	1,000,000.00	
	2	Improvements to Karandagaha Amuna	700,000.00	
	3	Improvements to Pansal Amuna	200,000.00	
	4	Improvements to Maha Akkarae Amuna	500,000.00	
	5	Improvements to Divul Akkarae Amuna	700,000.00	
	6	Improvements to Bellanvila Amuna	400,000.00	
	7	Improvements to Valie Amuna	100,000.00	
Total			5,780,000.00	

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (2/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Earth Works

No.	From	To	Length (m)	Design Discharge (m3/s)	Cross Section			Rehabilitation/Improvement Plan	
					Bottom (m)	Height (m)	Slope (1:n)	Description of the plan	Estimated cost required (Rs.)
1	0.000	52.000	52.000	0.336	1.2	0.6	1.25	Desilting, E/W in forming canal bund & turfing	10,000.00
2	52.000	277	225.000	0.308	1.1	0.75	1.5	Desilting, E/W in forming canal bund & turfing	30,000.00
3	277.000	414	137.000	0.308	1.1	0.75	1.25	Desilting, E/W in forming canal bund & turfing	20,000.00
4	414.000	1042	628.000	0.28	1	0.6	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	200,000.00
5	1042.000	1505	463.000	0.252	1	0.5	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	130,000.00
6	1505.000	2081	576.000	0.252	0.75	0.5	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	180,000.00
7	2081.000	2361	280.000	0.252	0.6	0.5	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	100,000.00
8	2361.000	2881	520.000	0.168	0.6	0.4	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	200,000.00
9	2881.000	3134	253.000	0.14	0.45	0.4	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	80,000.00
10	3134.000	3550	416.000	0.112	0.3	0.3	1	Desilting, E/W in forming canal bund and turfing & Gravelling road	100,000.00
									1,050,000.00

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (3/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
1	0	D/S Str. Of Sluice (E)	-	Yes	-			-		Yes	No	125,000.00
2	0+012	Canal Lining (N)	-	Yes						NP	NP - RRM Rt. walls & conc. Base	25,000.00
3	0+020	Measuring Device (N)	-	Yes						NP	NP - Gauge Post	20,000.00
4	0+052	TOS to FC 1 (E) & (I)	1/225 mm dia	Yes	Yes				Yes		NP - Replace H/pipe, u/s & d/s RRM Protection	15,000.00
5	0+053	Canal Spill (LB) - (E)		Yes					Yes		No	5,000.00
6	0+055	Dr. Inlet Struc. (plank bays) (E) & (I)		Yes			Yes	Yes			No	5,000.00
7	0+065	Retaining Wall - 15m (N)	2/0.75 x 0.6	Yes						NP	NP - RRM Rt. Wall.	40,000.00
8	0+080	Gated Regulator (N)		Yes			NP			NP	NP - u/s & d/s RRM Protection	90,000.00
9	0+107	Retaining Wall - 12m (N)	1/1.0 x 0.75	Yes						NP	NP - RRM Rt. Wall.	30,000.00
10	0+259	Box Culvert - (1.0x 0.75) (N)		Yes						NP	NP - u/s & d/s RRM Protection	80,000.00
11	0+261	Rt. Walls on both sides - 20m (N)		Yes						NP	NP - RRM Rt. Wall.	100,000.00
12	0+262	Dr. Inlet Structure (N)		Yes			NP			NP	NP - Canal Lining	10,000.00
13	0+277	H/Pipe Culvert (600mm dia) (E) & (I)		Yes					Yes	NP	NP - u/s & d/s RRM Protection	15,000.00
14	0+279	Rt. Walls on both sides - 5m (N)		Yes						NP	NP - RRM Rt. Wall.	25,000.00
14'	0+332	TOS to FC 2 (E) & (I)	1/150 mm dia	Yes			Yes		Yes	NP	NP - Replace H/pipe, u/s & d/s RRM Protection	25,000.00
15	0+332	Retaining Wall - 8m (N)		Yes						NP	NP - RRM Rt. Wall.	20,000.00
16	0+387	TOS to FC 3 (E) & (I)		Yes						NP	NP - u/s & d/s RRM Protection	20,000.00

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (4/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
17	0+414	Gated Regulator (E), (D) & (N)	1/150 mm dia	Yes			NP		Yes	NP	NP - u/s & d/s RRM Protection	90,000.00
18	0+467	Box Culvert - (1.0x 0.75) (N)	1/1.0 x 0.75	Yes						NP	NP - u/s & d/s RRM Protection	80,000.00
19	0+468	Dr. Inlet Structure (N)		Yes						NP	NP - Canal Lining	10,000.00
20	0+860	Box Culvert - (1.0x 0.75) - (private) (E)		Yes			NP				No	
21	0+950	Box Culvert (private) (E)		No				Yes			No	
22	1+025	Retaining Wall at LB (N) - 10m		Yes							NP - RRM Rt wall	25,000.00
23	1+035	Box Culvert (private) (E)		No				Yes			No	
24	1+040	TOS to FC 4 (E) & (I)	1/225 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
25	1+042	Gated Regulator (N)	1/1.0 x 0.75	Yes			NP			NP	NP - u/s & d/s RRM Protection	90,000.00
26	1+050	H/Pipe Culvert (600mm dia) (E) & (I)	-	Yes						NP	NP - u/s & d/s RRM Protection	10,000.00
27	1+155	Dr. Inlet Structure (N)		Yes						NP	NP - Canal Lining	10,000.00
28	1+165	FTO Structure 100mm dia (E) & (I)		Yes			NP			NP	NP - Controlling Arrangements	8,000.00
29	1+230	Dr. Inlet Structure (N)		Yes						NP	NP - Canal Lining	10,000.00
30	1+235	Canal Spill (E)		Yes					Yes		No	5,000.00
31	1+240	Box Culvert - (1.0x 0.75) (N)		Yes						NP	NP - u/s & d/s RRM Protection	10,000.00
32	1+465	Box Culvert - (1.0x 0.75) (N)		Yes						NP	NP - u/s & d/s RRM Protection	10,000.00
33	1+480	H/Pipe Culvert (600mm dia) (E) & (N)		Yes						NP	NP - u/s & d/s RRM Protection	60,000.00

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (5/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
34	1+490	Retaining Wall at LB- 10m (N)		Yes						NP	NP - RRM Rt wall	25,000.00
35	1+490	Dr. Inlet Structure (N)		Yes						NP	NP - Canal Lining	10,000.00
36	1+503	TOS to FC 5 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
37	1+505	Gated Regulator (N)	-	Yes			NP			NP	NP - u/s & d/s RRM Protection	90,000.00
38	1+540	Canal spill cum causeway (E) & (I)		Yes					Yes		No	25,000.00
39	1+645	Box Culvert - (1.0x 0.75) - (private)		No				Yes			No	
40	1+720	Canal spill cum causeway (E), (D) & (N)		Yes						Yes	No	200,000.00
41	1+765	H/Pipe Culvert (600mm dia) (E) & (N)		Yes						NP	NP - u/s & d/s RRM Protection	60,000.00
42	1+770	FTO Structure 2/100mm dia (E) & (I)		Yes			NP			NP	NP - Controlling Arrangements	8,000.00
43	1+816	TOS to FC 6 (E) & (I)	1/150 mm dia	Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
44	1+890	Canal spill cum causeway (E) & (I)		No					Yes		No	25,000.00
45	1+900	Box Culvert - (1.0x 0.75) - (private)		Yes				Yes			No	
46	2+080	TOS to FC 7 (E) & (I)		Yes	Yes				Yes		NP - u/s & d/s RRM Protection	20,000.00
47	2+081	Gated Regulator (N)	1/1.0 x 0.75	Yes			NP			NP	NP - u/s & d/s RRM Protection	90,000.00
48	2+212	FTO Structure 100mm dia (E) & (I)		Yes			NP			NP	NP - Controlling Arrangements	8,000.00
49	2+321	FTO Structure 101mm dia (E) & (I)		Yes			NP			NP	NP - Controlling Arrangements	8,000.00
50	2+330	FTO Structure 102mm dia (E) & (I)		Yes			NP			NP	NP - Controlling Arrangements	8,000.00

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (6/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
51	2+360	TOS to FC 8 (E) & (I)	1/150 mm dia	Yes	Yes						NP - u/s & d/s RRM Protection	20,000.00
52	2+361	Gated Regulator (N)	1/0.75 x 0.75	Yes			NP			NP	NP - u/s & d/s RRM Protection	75,000.00
53	2+460	Canal spill cum causeway (E) & (I)		Yes						Yes	NP - Replacement of deck slab	40,000.00
54	2+530	H/Pipe Culvert (450mm dia) (E)		Yes						NP	NP - u/s & d/s RRM Protection	10,000.00
55	2+600	H/Pipe Culvert (450mm dia) (E)		Yes						NP	NP - u/s & d/s RRM Protection	10,000.00
56	2+610	TOS to FC 9 (E) & (I)	1/225 mm dia	Yes			Yes			Yes	NP - u/s & d/s RRM Protection	40,000.00
57	2+710	TOS to FC 10 (E) & (I)	1/150 mm dia	Yes			Yes				NP - u/s & d/s RRM Protection	20,000.00
58	2+729	Drop Structure H=1.0m (E), (D) & (N)		Yes						NP	NP - u/s & d/s RRM Protection	40,000.00
59	2+880	TOS to FC 11 (E) & (I)	1/300 mm dia	Yes			NP			NP	NP - u/s & d/s RRM Protection	45,000.00
60	2+881	Gated Regulator (N)	1/0.75 x 0.75	Yes			NP			NP	NP - u/s & d/s RRM Protection	75,000.00
61	2+881	Drop Structure H=1.0m (E), (D) & (N)		Yes						NP	NP - u/s & d/s RRM Protection	40,000.00
62	2+941	Drop Structure (Rt.), H=1.0m		No			NP			No	NP - u/s & d/s RRM Protection	10,000.00
63	2+943	FTO Structure (75mm dia) (E) & (I)		Yes			Yes			NP	NP - Controlling Arrangements	8,000.00
64	3+006	TOS to FC 12	1/225 mm dia	Yes						Yes	NP - u/s & d/s RRM Protection	40,000.00
65	3+008	Drop Structure H=1.0m (E)		No							No	
66	3+010	H/Pipe Culvert (450mm dia) (E) & (I)		Yes						No	NP - u/s & d/s RRM Protection	10,000.00
67	3+133	TOS to FC 13	1/225 mm dia	Yes			Yes			Yes	NP - u/s & d/s RRM Protection	40,000.00

Table TA-7 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Irrigation Department (7/7)

Name of Scheme : Maha Nanneriya

Name of Canal : RB Main Canal, Structure

No.	Chainage (km)	Name of structure	Nos. of gates and their sizes	Rehabilitation/Improvement Plan								
				Need (Yes or No)	Gates			Concrete Works/Others			Description/ Other works	Estimated cost required (Rs.)
					no need	Minor repair	Replace-ment	no need	Minor repair	Replace-ment		
68		Gated Regulator (N)	1/0.75 x 0.75	Yes			NP			NP	NP - u/s & d/s RRM Protection	75,000.00
69	3+135	Drop Structure H=1.0m (E) & (I)		Yes							NP - u/s & d/s RRM Protection	10,000.00
70	3+138	H/Pipe Culvert (450mm dia) (E) & (I)		Yes							NP - u/s & d/s RRM Protection	10,000.00
71	3+205	Drop Structure H=1.0m		Yes							NP - u/s & d/s RRM Protection	10,000.00
72	3+280	TOS to FC 14 (E) & (I)	1/150 mm dia	Yes			Yes				NP - u/s & d/s RRM Protection	20,000.00
73	3+281	Drop Structure (Rt.), H=1.0m		No						No	NP - d/s RRM Protection	5,000.00
74	3+400	Drop Structure H=1.0m		Yes							NP - u/s & d/s RRM Protection	15,000.00
75	3+490	Drainage Under Crossing		Yes						NP	NP - Canal Lining	80,000.00
												2,453,000.00

TOS : Turnout structure

FTO : Farm turnout

RRM : Random rubble masonry

Rt. : Retaining

NP. : New proposal

Dr. : Drainage

(N) : New

(E) : Existing

(D) : To be demolish

(I) : To be improved

dia : Diameter

Table TA-8 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Farmers' Organization (1/4)

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 causeway	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				

Table TA-8 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Farmers' Organization (2/4)

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.)
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	Skilled	2 days	550	
							Labors	16 days	2,800	2,800
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	1 cu	2,600	Labors	2 days	350	350

Table TA-8 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Farmers' Organization (3/4)

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.)
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
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
				Gravel	19 cu	38,000	Labors	42 days	7,350	7,350
			Drain L 500 ft	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
				Gravel	41 cu	82,000	Labors	91 days	15,925	15,925
			Drain L 700 ft	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
				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
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
				Gravel	16 cu	32,000	Labors	36 days	6,300	6,300
			Drain L 500 ft	Earth works	76 cu		Labors	169 days	29,575	29,575
	Road to maha akkaraya from Wanni 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	
							Labors	16 days	2,800	2,800
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	1 cu	2,600	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						

Table TA-8 Rehabilitation Plan & Cost Estimation for Maha Nanneriya Scheme Proposed by Farmers' Organization (4/4)

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.)
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					

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (1/6)

Name of Scheme : Kallanchiya, Minor Scheme

Name of FO, etc. : Nidhahas FO, Extent of Land 8.1 ha

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	Presently 10' ft wide Height 12' ft Turfing and providing a rip-rap	Length 500m Width 3.0 m	Earth Works	64 cu	32,000	Labors	142	days	24,850	24,850
				Rip rap	27 cu	81,000	Labors	60	days	10,500	10,500
				Turfing	161 sq		Labors	113	days	19,775	19,775
				Gravel	53 cu	106,000	Labors	118	days	20,650	20,650
2	spill & causeway	Construction of spill & causeway Spill is broken and there is no causeway Widen the spill and augment construction of causeway with rubble masonry	Length of spill - 100' ft	RRM	30 cu	96,000	Skilled	23	days	6,325	
							Labors	233	days	40,775	40,775
				Earth works	60 cu		Labors	133	days	23,275	23,275
				Metal	5 cu	13,000	Labors	11	days	1,925	1,925
			Causeway - 50' ft	Earth works	60 cu		Labors	133	days	23,275	23,275
3	Repairs to sluice	Presently in dilapidated condition Fixing a new door and hume pipes iron cages in front and back	Length 75' ft	Concrete	3 cu	24,600	Skilled	3	days	825	
							Labors	23	days	4,025	4,025
				Reinforced bar	425 kg	25,470					
				Earth works	30 cu		Labors	67	days	11,725	11,725
				Slide gate dia. 600	1 no	41,000					
				HP dia. 600mm	75 ft	52,500					
				Metal	3 cu	7,800	Labors	7	days	1,225	1,225
4	Rehabilitation of canal system with structures	Presently in a dilapidated condition & no structures Construction of two canals from sluice with structures Length of canals - 2000 meters	Farm Turnout - 20 nos	HP dia. 6 inch	140 ft	29,400					
				Concrete	20 cu	164,000	Skilled	20	days	5,500	
							Labors	155	days	27,125	27,125
				Earth works	20 cu		Labors	44	days	7,700	7,700
				Metal	20 cu	52,000	Labors	44	days	7,700	7,700
5	Rehabilitation of present main canal	Digging the canal and providing a rubble masonry wall on road side	Length of canal 1000m Width 3' ft H 3 ft	RRM	106 cu	339,200	Skilled	80	days	22,000	
							Labors	530	days	92,750	92,750
				Earth works	500 cu		Labors	1110	days	194,250	194,250
				Metal	16 cu	41,600	Labors	36	days	6,300	6,300
6	Construction of a feeder canal to take from Yayanluliya Pond	Opening up of a new canal by Back hoe machine removing forest & roots	Length 1500m width 10' ft	Clearing	2 ac.	20,000					
				Ripping	2 ac.	10,000					
				Earth Excavation	331 cu	66,200					
	Sub-total					1,201,770				552,475	517,825
	Grand-total					1,754,000					
	(US$/ha)					3,050					

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (2/6)

Name of Scheme : Arthikulama, Minor Scheme

Name of FO, etc. : Samagi FO, Extent of Land 12.1 ha

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	Since the existing tank bund is not strong enough, earth work is necessary	L 350 m W 1.8 m H 3.35 m	Earth Works	41 cu	20,500	Labors	91 days	15,925	15,925
				Rip rap	19 cu	57,000	Labors	42 days	7,350	7,350
				Gravel	22 cu	44,000	Labors	49 days	8,575	8,575
		To prevent erosion of tank bund should turf the bund	L 350m, W 30' ft	Turfing	344 sq		Labors	241 days	42,175	42,175
2	Two sluices	Since both sluice doors and leaking should repair or replace	L 60 ft - 2 nos	Concrete	6 cu	49,200	Skilled	6 days	1,650	
							Labors	47 days	8,225	8,225
				Reinforced bar	849 kg	50,940				
				Earth works	60 cu		Labors	133 days	23,275	23,275
				Slide gate dia. 600	2 nos	82,000				
				HP dia. 600mm	120 ft	84,000				
				Metal	8 cu	20,800	Labors	18 days	3,150	3,150
3	Construction of two bathing steps	It is required to construct 2 new bathing step for villages	L 25' ft, W 10' ft, x 2	Concrete	10 cu	82,000	Skilled	10 days	2,750	
							Labors	78 days	13,650	13,650
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	2 cu	5,200	Labors	4 days	700	700
4	Tank spill	Repairs to between down places since it is not in good condition	L 50' ft, W 3' ft, H 1' ft	RRM	15 cu	48,000	Skilled	11 days	3,025	
							Labors	75 days	13,125	13,125
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225
5	Canal system structures & construction of 2 causeways	Canal system structures & construction of 2 causeways Canals 1 300m 2 400m 3 300m length 1000m width 2m	Farm Turnout - 10 nos	HP dia. 6 inch	70 ft	14,700				
				Concrete	10 cu	82,000	Skilled	10 days	2,750	
							Labors	78 days	13,650	13,650
				Earth works	10 cu		Labors	22 days	3,850	3,850
				Metal	10 cu	26,000	Labors	22 days	3,850	3,850
			Causeways - 2 nos	HP dia. 600mm	40 ft	28,000				
				Concrete	4 cu	32,800	Skilled	4 days	1,100	
							Labors	31 days	5,425	5,425
				Earth works	20 cu		Labors	44 days	7,700	7,700
				Metal	2 cu	5,200	Labors	4 days	700	700
	Sub-total					740,140			207,275	196,000
	Grand-total					947,000				
	(US$/ha)					1,102				

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (3/6)

Name of Scheme : Palumailawa (Mailewa), Minor Scheme

Name of FO, etc. : Ekamuthu FO, Extent of Land 22.0 ha

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	Sluice (MID)	Construction of a new sluice since the old one in no good.	Length of the sluice - 60 ft Height of concrete wall - 5 ft	Concrete	3 cu	24,600	Skilled	3 days		825	
							Labors	23 days		4,025	4,025
				Reinforced bar	425 kg	25,470					
				Earth works	30 cu		Labors	67 days		11,725	11,725
				Slide gate dia. 600	1 nos	41,000					
				HP dia. 600mm	60 ft	42,000					
				Metal	2 cu	5,200	Labors	4 days		700	700
2	Canal	Filling the bunds with earth repairing, compacting & turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth	170 cu	42,500	Labors	377 days		65,975	65,975
				Turfing	137 sq		Labors	96 days		16,800	16,800
3	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth	170 cu	42,500	Labors	1062 days		185,850	185,850
				Turfing	137 sq		Labors	96 days		16,800	16,800
4	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth	170 cu	42,500	Labors	377 days		65,975	65,975
				Turfing	137 sq		Labors	96 days		16,800	16,800
5	Tank bund	Filling the Tank bund with earth and turfing	L 1 km Top W 7' ft, H 2.95 m	Earth	104 cu	26,000	Labors	231 days		40,425	40,425
				Gravel	74 cu	148,000	Labors	164 days		28,700	28,700
				Turfing	710 sq		Labors	497 days		86,975	86,975
6	Agricultural Roads	Rehabilitation of existing road Fill washed out places, make side drains, surface.	L 2 km W 12' ft	Earth works	382 cu	191,000	Labors	848 days		148,400	148,400
				Gravel	254 cu	508,000	Labors	564 days		98,700	98,700
7	Spill & Spill Canal	Clearing and deepening the spill canal and rehabilitation	L 3 km W 10' ft, depth 8' ft	Clearing	4 ac.	40,000					
				Earth Excavation	3,180 cu	636,000					
	Sub-total					1,814,770				788,675	787,850
	Grand-total					2,603,000					
	(US$/ha)					1,666					

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (4/6)

Name of Scheme : Tambare, Minor Scheme

Name of FO, etc. : Samagi FO, Extent of Land 20.2 ha

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	Deepening the Tank	De-silt the FSL area and remove the soil away	750 sq. m to a depth of 1 m	Desilting	265 cu	106,000				
2	Rehabilitation of Tank bund	Bund earth work Compaction with water turfing Gravelling the surface rip-rap to secure bund	Width 2.43 m Length 800 m	Earth Works Rip rap Gravel Turfing	90 cu 42 cu 69 cu 258 sq	45,000 126,000 138,000	Labors Labors Labors Labors	200 days 93 days 153 days 181 days	35,000 16,275 26,775 31,675	35,000 16,275 26,775 31,675
3	Tank spill	Rehabilitation of spill using concrete	100' ft long, 12' ft wide construct as a causeway	Concrete Reinforced bar Earth works Metal	31 cu 4,387 kg 90 cu 14 cu	254,200 263,190 36,400	Skilled Labors Labors Labors	31 days 240 days 200 days 31 days	8,525 42,000 35,000 5,425	 42,000 35,000 5,425
4	Sluice	Provide a new door	It is sufficient to remove the old door and fix new door	Concrete Reinforced bar Earth works Slide gate dia. 600 HP dia. 600mm Metal	3 cu 425 kg 30 cu 1 no 60 ft 2 cu	24,600 25,470 41,000 42,000 5,200	Skilled Labors Labors Labors	3 days 23 days 67 days 4 days	825 4,025 11,725 700	 4,025 11,725 700
5	Sluice (High level)	Construction of a new high level sluice where marked in the map		Concrete Reinforced bar Earth works Slide gate dia. 600 HP dia. 600mm Metal	3 cu 425 kg 30 cu 1 no 60 ft 2 cu	24,600 25,470 41,000 42,000 5,200	Skilled Labors Labors Labors	3 days 23 days 67 days 4 days	825 4,025 11,725 700	 4,025 11,725 700
6	Canal System	Construction of a new canal system instead of the old system	Farm Turnout - 20 nos	HP dia. 6 inch Concrete Earth works Metal	140 ft 20 cu 20 cu 20 cu	29,400 164,000 52,000	 Skilled Labors Labors Labors	 20 days 155 days 44 days 44 days	 5,500 27,125 7,700 7,700	 27,125 7,700 7,700
	Sub-total					1,490,730			283,250	267,575
	Grand-total					1,773,000				
	(US$/ha)					1,236				

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (5/6)

Name of Scheme : Ihala Nanneriya, Minor Scheme

Name of FO, etc. : Eksath FO, Extent of Land 26.0 ha

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	Should clean and augment the bund by about one foot with earth filling since there is a village on the other side of the bund the bund should be graveled and make motorable Some places should be widened because of bathing 4 places are damaged. Because of cattle, sluice to spill section is damaged. Out side of the bund is damaged near the sluice because of cattle since the tank is silted should remove the silt and deepen the tank 1. Length of the bund about 1000m 2. Width of the bund about 2 1/2 m 3. Height of the bund about 3 1/2 m	Tank bund	Earth Works	129 cu	64,500	Labors	286 days	50,050	50,050
				Rip rap	53 cu	159,000	Labors	118 days	20,650	20,650
				Gravel	86 cu	172,000	Labors	191 days	33,425	33,425
				Turfing	323 sq		Labors	226 days	39,550	39,550
			Desilting		1,000 cu	400,000				
2	Sluice	Existing sluice is made about 30 yrs back. Since the door is worn water is leaking because of this a large amount of water 90 waste the sluice should be repaired. Since the control arm (iron) is rotted it is difficult to open and close the sluice	1. Sluice door 2. Iron Bar 3. Bar and nails 4. Padlocks 5. Water measuring device	Concrete	3 cu	24,600	Skilled	3 days	825	
							Labors	23 days	4,025	4,025
				Reinforced bar	425 kg	25,470				
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Slide gate dia. 600	1 no	41,000				
				HP dia. 600mm	60 ft	42,000				
				Metal	2 cu	5,200	Labors	4 days	700	700
3	Spill	The existing spill is in a very run-down stage. There is a continuous leak. Since the spill is in a low elevation can not stock much water in the tank. If should be raised by about 1 foot. It is better to construct a new spill	1. Length - 100 ft 2. Width - 1 foot 3. Height - 4 feet	Concrete	9 cu	73,800	Skilled	9 days	2,475	
							Labors	70 days	12,250	12,250
				Reinforced bar	1,274 kg	76,410				
				Earth works	60 cu		Labors	133 days	23,275	23,275
				Metal	6 cu	15,600	Labors	13 days	2,275	2,275
4	Bathing steps	The existing two bathing steps are dilapidated Should construct 3 new bathing steps 1. Length of a Bathing step - 25 feet 2. Width of a Bathing step -10 feet	Bathing step - 3 nos	Concrete	9 cu	73,800	Skilled	9 days	2,475	
							Labors	70 days	12,250	12,250
				Reinforced bar	1,274 kg	76,410				
				Earth works	45 cu		Labors	100 days	17,500	17,500
				Metal	3 cu	7,800	Labors	7 days	1,225	1,225

Table TA-9 Rehabilitation Plan & Cost Estimation for Minor Cascade Proposed by Farmers' Organization (6/6)

Name of Scheme : Ihala Nanneriya, Minor Scheme

Name of FO, etc. : Eksath FO, Extent of Land 26.0 ha

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.)
5	Canal System	Repair the existing irrigation canal system which provides water to paddy fields. Two pipe lines should be repaired since they are leaking from joints.	1. Length of canal 800 m 2. Width of canal 1m	HP dia. 600mm Earth Works	100 ft 271 cu	70,000 67,750	Labors 602 days	105,350	105,350
	Sub-total					1,395,340		340,025	334,250
	Grand-total					1,735,000			
	(US$/ha)					940			