

ANNEX-4
FARMER ORGANIZATIONS

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App.4 Meetings with Project Managers (INMAS) and Leaders of Farmer Organizations in Polonnaruwa

10, 11 March, 1995

1. Team Leader of the JICA Study Team Mr. Fujioka and Consultant on Farmer Organizations Mr. Nanda Abeywickrema visited Polonnaruwa District in the North Central Province from 9th to 11th March 1995, to study the Government's Program for the Turnover of the Irrigation Systems to Farmer Organizations and observe the current status.
2. Meetings were held with the Project Manager for the major irrigation systems in Polonnaruwa, viz Parakrama Samudra, Minneriya and Giritale and with the Chairman / Secretary of the Distributory Canal level Organizations (DCO.) in Giritale and Minneriya Schemes. List of persons met is given in Table 1.
3. The Project Managers explained the current Organizational Structure at each of the Project. Each Project has a Project Management Committee chaired by the Project Manager and a hierarchy of DCO. and FC level groups as in all INMAS program projects. This body which meets every month has a majority of Farmer Representatives as against public officers. The Committee makes all decisions with regard to the water distribution and cultivation program including input supplies marketing, maintenance contracts etc. PMC now has statutory powers under the Irrigation Ordinance.

Vyapara Govi Sanvidanaya

4. In addition and independent of the PMC there is Vyapara Govi Sanvidanaya (Scheme Level Farmers Organization - SLFO) established by the Farmers on their own initiative. Membership is made up of farmers and the Board of Directors is made up Chairmen of DCO. who have contributed to the share capital. There are no government officials in this organization. President is elected every two years.

SLFO undertakes a wide range of activities, starting with trading activities relevant to the farmers (fertilizer, seeds, agro-chemicals, paddy sales etc). They propose to undertake other income and employment generating activities such as agro-processing, plant nurseries etc to start with.

Currently they do not have legal status, hence cannot get bank facilities etc. They would like to register as a Company with the Registrar of Companies. They need assistance to get this done.

At present the SLFO office is in the Project Management Office. They would like to have the own independent premises.

5. The Project Manager agreed to send a brief report showing the progress of the PIMC, SLFO and farmer organizations.

II. Meetings with Farmer Organization Representatives

At the meetings held with DCO representatives on 10th (Giritale) and 11th (Minneriya) the following matters were discussed and information obtained.

Main differences Before and After Formation of FO

Farmer Organizations were established between 1984 and 1986 by the IMD with the assistance of Institutional Organizers (I.O). The immediate objective was to systemize the allocation and distribution of irrigation water to enable the best use of limited water available and to ensure an equitable distribution among all farmers. Water distribution before 1984 was handled by Vel Vidane elected by secret ballot and majority vote by the Agrarian Services Department. Vel Vidane became the intermediary between the farmers and Irrigation Department. Some of them were autocratic and were partisan. So there were disputes. Farmers had no common interests. Farmer Organizations in the initial years had to face many problems and obstacles. Now however they are functioning well.

The major improvements are

(a) all farmers participate in the decisions relating to water management with the result that overall water management and water use efficiency has improved. eg:- in Giritale - previously they had to fill the Tank 3 time during a season. Now they can manage with 2 or 2.25 fills. In Minneriya water duty has gone down from 7Ac.ft to 5.5Ac.ft; in some seasons they have managed with 3.5 Ac.ft. Tail enders who did not get water earlier now get water.

(b) water dispute among farmers have reduced to zero. Farmers have a high degree of awareness about their rights and obligations.

(c) Farmers can now take up many issue both among themselves and with officials, eg: regarding cultivation, calendar, input and produce prices.

(d) Kanna meeting is held by the District/Divisional Secretary, sharp on time, which enables them to plan their cultivation.

(e) Farmers through the intervention of the FO get better prices for seed, fertilizer and in marketing their paddy.

(f) Irrigation department consults them in repairs and maintenance work.

(g) Farmers are represented in the Mahaweli Water Management Panel. In fact now officials of the Mahaweli Authority visit the project area and discuss with the FO before they prepare their proposals to the Water Management Panel. Farmer representatives are invited to the Mahaweli Water Management Panel where bulk allocations and dates are decided upon. This is a major victory for the farmers.

Financial Management: Under the ISMP Treasurer and other office bearers in the FO were trained in financial management. This is very helpful; although office bearers may change from year to year. IMD continues to provide training.

I.D. Contracts: Farmers now handle I.D. contracts upto Rs.750,000/- for maintenance and repair work. The profit margin from these contracts is very small; but they don't mind because they are able to get a much better job done as it is for their own benefit. Some of the estimates prepared by the I.D. are outdated. They should be revised; if not sometimes the FOs. has to work at a loss.

System Turnover: All FOs. have taken over the operation and maintenance of D.C. and FC but only a few have taken over by formal agreement. This is because their rehabilitation was not completed by the I.D. The Essential Improvements Program under the ISM project left out many sections of the canal without repairs or structures. Drainage canals were not done. Canal roads were not done. So farmers find it difficult to regulate the water. Farmers therefore do not want to take over formal responsibility until all work is completed by I.D. Out of a total of D.C. only have been taken over formally by the Farmer Organizations. Please see Table 2-(1)~(4).

Operation and Maintenance: Field canals are maintained by individual farmers and farmer groups within their area. D.C. are maintained by the FO Farmers are expected to contribute 2 man days of labour per season to maintain the D. canal. Those who cannot contribute labour have to pay Rs.75/- towards the cost. At present they do not have powers to take action against those who do not contribute. Although legal provision was made recently the procedures have not been made clear.

Water Charges: Since farmers maintain the D.C. & F.C. they do not pay water charges. Farmers contribute labour or cash to maintain the canal. FOs do not as yet have the power to enforce sanctions against those who do not contribute.

Farmers pay a fee every season toward the FO Fund. This varies from Rs.25/- per Acre to Rs. 100/- per farmer. The FO uses these fees to build up their Fund, for example to grant short term loans to purchase the first application of fertilizers at nominal interest on the guarantee of two farmers.

Main Impact of Farmer Organization Program : Management of the Scheme has changed from a 'Top down' approach to a 'Bottom up' approach. Farmers are now aware of their rights and obligations; they take group responsibilities for the common good. The participatory method has led to better relations with government officials; they are now very helpful. The cultivation is more systematic and all farmers get a reasonable income.

Income Levels: Paddy yields are about 70-80 bushels per Ac. in Giritala, 85-90 in Minneriya and about 100 in Parakrama Samudra this season. Giritala was affected by pests. Farmers say their costs have escalated sharply in recent years; fertilizer costs have increased; agro-chemicals use is increasing. As there are no agricultural extension workers (KVS) they do not get good advice.

Cultivation costs given by two farmer representatives is given in Table 3.

The introduction of the bread and flour subsidy has reduced the consumption of rice in urban areas and thus depressed the sale price of paddy. So farmers cannot save much to maintain the system or for other investments.

Farm sizes have decreased over the years due to sub-divisions and fragmentation; the operational holding now is only about 1.25 Ac. So they cannot produce an adequate surplus.

Other than paddy, farmers grow, ground nuts, big onions, green gram, tobacco etc. Gherkins was not successful. - Storage and marketing are problems for all crops.

Facilities required by FOs. to improve their performance:

1. Office facilities to conduct their meetings and business; storage facilities would help them to get better prices for their crops - transport facilities for FO duties, equipment, eg. small equipment for maintenance of canals.
2. More institutional support from Government eg. Government should remove anomalies to legal enactments and procedures to empower the bona-fide farmer organizations.

There are also NGOs who call themselves Farmer Organizations but not made up of genuine farmers. They are more like Trade Unions. Government should recognize the genuine FOs. and give them the minimum support required to function independently.

Table 1-(1) MINNERITYA FARMER REPRESENTATIVES MEETING

11-03-1995

Resident Project Manager's Office - Hingurakgoda

Name	Name of Agency for Organization	Position (Role)	No. of Members
D.C. Perera	Residential Project Manager I.M.D.	Minneriya	
1. K.P. Gaminidasa	Kotalawala DCO	Treasurer	151
2. T.M. Gunaratne	Galamuna Perakum DCO	Secretary	240
3. E.R.G. Suriyawansa	Hakamuna DCO	Chairman	153
4. R.P. Thilakaratne	Ulpathwewa DCO	Chairman	200
5. Ananda Punchibanda	Kotalawala DCO	Chairman	145
6. D.M.T. Mudalihami	Galamuna Perakum DCO	Chairman	220
7. D.M.H.Ajith Samankumara	Damana DCO	Chairman	154
8. G.D. Wijesuriya Perera	Galmuna Perakum DCO	Chairman	240
9. L.G. Gnanawathie Menike	I.M.D.	Institutional Organizer	
10. Anura Dayaratne	I.M.D.	I.O.	
11. Damayanthi Palugaswewa	I.M.D.	I.O.	
12. U.K. Perera	I.M.D.	I.D.O.	
13. M.H. Wisvasaranatha	Ulpathwewa	Secretary	200

Table 1-(2) GIRITALE FARMER REPRESENTATIVES MEETING

10-01-1995

Resident Project Manager's Office - Giritale

Name	Name of Agency for Organization	Position	No. of Members
1) Sugunapala	IMD	Resident Project	
2) D.C. Perera	IMD	- do - Minneriya	
3) Liyange	IMD	- do - Parakram Samudra	
4) Dissanayake	IMD	Monitoring Officer	
5) M.M. Samarakoon	Agbopura DCO	Chairman	140
6) K.G. Soro[a;a	Medawewa DCO	Chairman	85
7) P.D. Ratnayake	Perakum DCO	Chairman	60
8) T.B. Peramuna	Mahasen DCO	Chairman	170

Table 2-(1) GIRITALE SCHEME - INMAS PROGRAM

Distribution Canal Organization

DCO	No. of Acres	No. of Farmer Families	Membership
*1. Puranagama	1325	171	170
2. Agbopura	694	193	155
*3. Mahasenpura	719	262	242
*4. Jayanthipura	1361	325	305
*5. Kadawalawewa	573	261	258
*6. Unagala Vehera	904	344	186
*7. Chandana Pokuna	571	182	170
8. Purana Muslim	204	63	56
*9. Perakumpura	223	87	87
*10. Bendiwewa	380	159	120
11. Naga Pokuna	325	175	162
12. 48 Kotasa	352	105	105
	7631	2327	2016

* Formally taken over by DCO Farmer Organization.

Table 2-(2) MINNERIYA SCHEME - INMAS PROGRAM

Distribution Canal Organizations (DCO)

Name of DCO	No. of Acres	No. of Farm Families	Membership
*1. Raja Ela	1142	335	227
2. Kotalawala	1037	200	151
*3. Ulpathwewa	1008	205	200
*4. Hathamuna	947	201	153
5. Hingurakdamana	819	170	154
6. Hinguran	877	181	124
7. Kotikapitiya	480	115	59
8. Kumaragama	639	200	116
9. Sansugama	951	191	152
10. Kaudulla	672	137	104
*11. Yodha Ela	1183	235	233
12. Yatiyalpethana	546	165	121
*13. Mahasen	616	230	209
14. Navakusum Pokuna	748	214	173
*15. Divulamkadawela	684	264	181
*16. Vihara Mawatha	910	305	136
17. Gamunu	1077	220	210
18. Perakum	1164	260	241
19. Wijaya	1100	328	267
20. Nissanka	1091	220	190
	17727	4383	3401

* Formaly taken over by DCO - Farmer Organization.

Table 2-(3) PARAKRAMA SAMUDRA SCHEME - INMAS PROGRAM

Distribution Canal Organization (DCO)

Name of DCO	No. of Acres	No. of Farmer Families	Membership
*1. Amban Ganga	514	80	57
*2. Aluth Wewa West	336	150	100
*3. Ela Medagama	320	67	93
4. Lakah Uyana	744	165	-
*5. Manikkam Pattiya	553	116	155
*6. Thalpota Buddharthagma	600	98	69
7. Thambala Alhillapura	560	162	87
*8. Somapura Abhayapura	708	162	178
*9. Kegalgama	900	250	200
10. Pulasthigama	1,550	191	81
*11. Gemunupura	520	251	178
12. Galthambarawa	1,125	320	200
13. Sevagama	1,839	264	1981
14. Kalugasdamana	1,175	350	580
15. Monaratenna	485	97	69
*16. Wijayarajapura	1,500	297	195
*17. Sinharajapura	1,160	188	152
18. Kalunga Ela Pahala	1,670	281	77
19. Sangawila	1,100	148	98
*20. Weerapura	750	150	153
21. Thalahagala	244	129	59
22. Damana Gemunupura	798	108	84
23. Sinhapura	1,790	325	118
24. Wijayabahupura	550	120	20
*25. Lankapura	715	120	110
*26. Weerapedesa	200	150	107
*27. Ela Weera Parakrama	275	162	93
28. Mahasen	750	124	212
29. D3 Parakram Samudraya	288	77	93
30. Aluthwewa East 514	587	165	110
	24,286	5,367	3,919

* Formally taken over by DCO Farmer Organization.

Table 2-(4) KAUDULLA SCHEME - INMAS PROGRAM

Distribution Canal Organizations (DCO)

DCO	No. of Acres	No. of Farm Families	Membership
*1. Stage 1 Eksath	357	123	
2. Kalinga	456	152	
3. Ranketha	324	109	
4. C.P. Pura Perakum	900	300	
5. Mandalagiriya	468	154	
*6. Suhada Eksath	588	195	
7. Sri Naga	328	164	
8. Vijitha	414	207	
9. Wijayapura Wijaya	382	101	
*10. Samagi	623	286	
*11. Menik Horowwa	246	123	
*12. Sama	490	245	
*13. Govi Setha	300	100	
*14. Mahindapura	598	299	
15. Pragathi	315	158	
16. Mahaweli	200	100	
17. Pubudu	550	350	
18. D.S. Senanayake	370	185	
19. Sri Wijaya	402	201	
20. Mahasen	466	338	
21. Eksath Govi	470	235	
22. Weera Keppetipola	404	208	
*23. Nagalapura Sahana	674	338	
	10,736	4,671	

* Formaly taken over by DCO - Farmer Organization.

Table 3 Minneruya Scheme - Polonnaruwa

Cost of Production Paddy 1 Acre

(Unit:Rs)

Farmer A	
1. Seed Paddy - 2 Bushels	540.00
2. Land Preparation	2,400.00
3. Bunding	800.00
4. Transplanting	2,000.00
5. Fertilizer	3,370.00
6. Agro-chemicals	750.00
7. Harvesting	2,800.00
8. Threshing	400.00
9. Cleaning Paddy	100.00
10. Others	200.00
	<hr/>
	13,360.00

Farmer B

1. Seed Paddy	575.00
2. Land Preparation	2,250.00
3. Bunding	800.00
4. Transplanting	2,500.00
5. Fertilizer	2,575.00
6. Agro-chemicals	2,350.00
7. Harvesting	2,750.00
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	13,800.00

ANNEX-5
FACILITY DESIGN & COST ESTIMATION

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App.5.1-1 Construction Volume of Liyangastota Scheme (1/2)

Canal & Structure Name of Scheme: Liyangastota Scheme (Waiaue RB Scheme)

Name of Canal	RB Main		D-1		D-2		D-3		WRB TOTAL	
	Present Proposed (km) (km)	Reco (km) (km)	Present Proposed (km) (km)	Reco (km) (km)	Present Proposed (km) (km)	Reco (km) (km)	Present Proposed (km) (km)	Reco (km) (km)	Present Proposed (km) (km)	Reco (km) (km)
1. Canal Works										
Type										
Type BI	14.5								14.5	0
Type BII										0
Type BIII										8.6
Type BIV	1.6		1.4				5.6		0	0
Type BV										0
Type BVI	2.2		1.7				5.3		9.2	0
Type BVII	3.9				1.1		1.3		6.3	0
Type BVI	6.9								6.9	0
Type EII									0	0
Type EIII									0	0
Type EIV									0	0
Total	31.8	29.1	4.5	3.1	1.5	1.1	17.3	12.2	59.1	45.5
2. Canal Structures										
2-1 Inlet										
Type-I	1	0	1	1	0	0	0	0	2	1
Type-II	0	0	0	0	1	1	1	1	2	2
Total	1	0	1	1	1	1	1	1	4	3
2-2 Turnout										
Type-I	0	0	1	1	2	2	0	2	5	0
Type-II	51	22	16	57	28	15	6	91	33	39
Total	51	22	16	58	29	17	6	96	33	44
2-3 Regulate										
Type-I	1	1	0	0	0	0	0	0	0	0
Type-II	1	1	0	2	0	2	1	0	1	6
Total	2	2	0	2	0	2	1	0	1	7
2-4 Drop										
Type-I	0	0	0	0	0	0	0	0	0	0
Type-II	0	0	0	2	0	2	0	0	0	0
Total	0	0	0	2	0	2	0	0	0	0
2-5 Under-Crowng										
Type-I	0	0	0	0	0	0	0	0	0	0
Type-II	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
2-6 Sillway										
Type-I	1	1	0	0	0	0	0	0	0	1
Type-II	1	1	0	2	0	2	0	0	0	5
Total	2	2	0	2	0	2	0	0	0	6
2-7 Over Bridge										
Type-I	0	0	0	0	0	0	0	0	0	0
Type-II	0	0	0	2	0	2	2	0	2	6
Total	0	0	0	2	0	2	2	0	2	6
2-8 Parball Flume										
Type-I	0	0	1	0	1	0	0	0	1	0
Type-II	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	1	0	0	0	1	0
2-9 Aqueduct										
Type-I	0	0	0	0	0	0	0	0	0	0
Type-II	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0

App.5.1-1 Construction Volume of Iiyangastota Scheme (2/2)

Canal Structure Name of Scheme: Iiyangastota Schem (Walawe LB Scheme)

Name of Canal	LB Escalator Total		Laluyagama		Laluyagama Total		Bolina		Bolina Total		WLB Total	
	Present Proposed (km) (nos)	Reco (km) (nos)	Present Proposed (km) (nos)	Reco (km) (nos)	Present Proposed (km) (nos)	Reco (km) (nos)	Present Proposed (km) (nos)	Reco (km) (nos)	Present Proposed (km) (nos)	Reco (km) (nos)	Present Proposed (km) (nos)	Reco (km) (nos)
1. Canal Works	3		1.2		1.2						4.2	
type BI					0						0	
type BII					0						0	
type BIII					0						7.6	
type BIV			0.9		0.9		3.8		3.8		14.7	20.6
type BV					2.7						0	2.7
type BVI					8.9						1.4	10.7
type BVII					5.2		0.7		0.7		10.5	15.7
type EI					0						0	4
type EII					0						0	0
type EIII					0						0	0
type EIV					0						0	0
Total	7	7	12.9	3.8	9.8	9.6	9.5	7.5	32.2	18.9	45.1	55.5
2. Canal Structures												
2-1 Inake												
type-I	1	0	1	0	1	0	1	0	1	0	1	0
type-II	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	1	0	1	0	1	0	1	0	1	0
2-2 Turnout												
type-I	0	0	6	6	5	4	4	4	15	0	18	33
type-II	0	0	53	9	48	0	96	38	41	197	47	294
Total	0	0	59	15	53	4	100	38	45	212	47	327
2-3 Regulator												
type-Ir	0	0	1	0	1	0	0	0	2	0	3	4
type-Irr	0	0	0	0	2	0	3	0	5	0	5	11
Total	0	0	1	0	3	0	3	0	7	0	8	15
2-4 Drop												
type-I	0	0	0	0	0	0	0	0	0	0	0	0
type-I	0	0	0	0	0	0	0	0	0	0	0	0
type-I	0	0	0	0	0	0	0	0	0	0	0	0
type-I	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
2-5 Under Crossing												
type-Iu	0	0	0	0	0	0	0	0	0	0	0	0
type-Iu	0	0	0	0	0	0	0	0	0	0	0	0
type-Iu	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
2-6 Stillway												
type-Iw	0	0	1	0	1	0	0	0	1	0	3	3
type-Iw	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	1	0	0	0	1	0	3	3
2-7 Over Bridge												
type-Io	3	1	1	0	1	0	0	0	2	0	3	11
type-Io	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	1	1	0	1	0	0	0	2	0	3	11
2-8 Parovall Flume												
type-Ip	0	0	0	0	0	0	0	0	0	0	0	0
type-Ip	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
2-9 Aqueduct												
type-Ia	0	0	0	0	0	0	0	0	0	0	0	0
type-Ia	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

App.5.1-2 Construction Volume of Muruthawela Reservoir Scheme (1/6)

Canal Structure Name of Scheme: Muruthawela Scheme LB Main

Name of Canal	LB Main Chl				Subtotal				Tract II				Subtotal						
	Upto Tract I		Branch Chl		Prems Proposed		Prems Proposed		Prems Proposed		Prems Proposed		Prems Proposed		Prems Proposed		Prems Proposed		
	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	Propn (km)	Reco (km)	
1. Canal Works	Type																		
	Type BI	2.55				2.55													
	Type BIII		5.1		1.25		5.1		1.25										
	Type BV																		
	Type BVII																		
2. Canal Structures	Type BI	2.55				2.55													
	Type BIII		5.1		1.25		5.1		1.25										
	Type BV																		
	Type BVII																		
2.2 Turnout	Type BI	6.1	5.0	2.1	2.1	6.1	5.0	2.1	2.1										
	Type BIII																		
2.3 Regulate	Type BI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
	Type BIII																		
2.4 Drop	Type BI	0.0	0.0	1.4	1.4	0.0	0.0	1.4	1.4										
	Type BIII																		
2.5 Under-Creasing	Type BI	1.5	1.5	0.0	0.0	1.5	1.5	0.0	0.0										
	Type BIII																		
2.6 Spillway	Type BI	2.1	1.0	0.0	0.0	2.1	1.0	0.0	0.0										
	Type BIII																		
2.7 Over Bridge	Type BI	1.5	1.4	0.0	0.0	1.5	1.4	0.0	0.0										
	Type BIII																		
2.8 Parabolic Flume	Type BI	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0										
	Type BIII																		
2.9 Aqueduct	Type BI	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0										
	Type BIII																		
Total																			

App.5.1-2 Construction Volume of Muruthawela Reservoir Scheme (2/6)

Canal Structure Name of Scheme: Muruthawela Scheme LB Main

Name of Canal	Line III												Sub Total		TOTAL		
	D-1	D-2	D-3	D-4	D-5	D-6	D-7	Out	D-9	D-10	D-11	D-12	Proposed Rich (km)	Proposed Recc (km)	Proposed Rich (km)	Proposed Recc (km)	
1. Canal Works																	
Type BI																	
Type BII																	
Type BIII																	
Type BIV																	
Type BV																	
Type BVI																	
Type BVII																	
Type BIII																	
Type BIII																	
Type BIII																	
Type BIII																	
Type BIII																	
Total	2.7	2.5	0.4	0.6	0.7	1.3	1.7	0.8	0.8	1.3	1.7	0.8	0.8	11.2	10.9	45.8	43.0
2. Canal Structures																	
2-1 Inlet																	
Type I																	
Type II																	
Total	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-2 Trench																	
Type I																	
Type II																	
Type III																	
Total	38	35	9	6	9	10	12	11	11	10	12	11	11	132	137	279	278
2-3 Regulator																	
Type I																	
Type II																	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-4 Drop																	
Type I																	
Type II																	
Total	14	17	1	9	4	1	6	4	4	1	6	4	4	57	10	47	111
2-5 Under-Crossing																	
Type I																	
Type II																	
Total	0	0	1	0	0	1	4	0	0	1	4	0	0	0	0	18	18
2-6 Spillway																	
Type I																	
Type II																	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-7 Over Bridge																	
Type I																	
Type II																	
Total	7	10	0	0	4	1	4	0	4	1	4	0	0	26	0	26	58
2-8 Fishball Frame																	
Type I																	
Type II																	
Total	0	1	0	1	0	1	0	1	0	1	0	1	0	0	0	1	0
2-9 Aqueduct																	
Type I																	
Type II																	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

App.5.1-2 Construction Volume of Muruthawela Reservoir Scheme (3/6)

Name of Scheme: Muruthawela High Level Canal

Name of Amsul/Tank	Low Level Canal		High Level Canal		Pothawewa		Eshwamawela		Nugagaha		Kaluwatigala		Pariyapala		Neddigiyala		TOTAL
	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	Proposed (km)	Reco (km)	
1. Amsul																	
Body																	
Reverment																	
Gate																	
Spillway																	
2. Canal Works																	
type B1																	0
type BII																	0
type BIII																	0
type BIV																	0
type BV																	0
type BVI																	0
type BVII																	0
type EI																	0
type EII																	0
type EIII																	0
type ETV																	0
Total	1.3	0.9	3.8	3.8	2.6	1.8	1.0	0.7	2.6	1.7	2.8	2.0	4.4	3.1	1.0	0.7	19.3
3. Canal Structures																	
3-1 Intake																	
type-I	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0
type-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0
3-2 Turnout																	
type-I	6	3	2	0	0	11	6	3	4	2	1	10	5	2	12	6	3
type-II																	
Total	6	3	2	0	0	11	6	3	4	2	1	10	5	2	12	6	3
3-3 Regulator																	
type-Ir	3	2	1	0	0	6	3	2	2	1	1	5	3	2	10	5	2
type-Itr																	
Total	3	2	1	0	0	6	3	2	2	1	1	5	3	2	10	5	2
3-4 Drop																	
type-Io	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
type-Io																	
Total	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
3-5 Under Channel																	
type-Ia	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
type-Ia																	
Total	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
3-6 Spillway																	
type-Iw	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
type-Iw																	
Total	2	1	1	0	0	3	2	1	1	1	0	3	2	1	5	3	1
3-7 Over Bridge																	
type-Io	2	1	1	1	1	0	3	2	1	1	0	3	2	1	5	3	1
type-Io																	
Total	2	1	1	1	1	0	3	2	1	1	0	3	2	1	5	3	1
3-8 Parshall Flume																	
type-Ip	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
type-Ip																	
Total	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
3-9 Aqueduct																	
type-Ia	0	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	1
type-Ia																	
Total	0	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	1

App.5.1-2 Construction Volume of Muruthawela Reservoir Scheme (4/6)

Anicut/Tank Name of Scheme: Muruthawela Scheme Urubolska Oya Soberne Canal

Name of Anicut/Tank	Palwes Reservoir		Kachiyane		Udukurwila		Wakamulla		Humakumbura		Hakurwela		Andupelina		Kanna		Sub total		
	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	
1. Anicut	Body	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Revetment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Gate	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2. Canal Works	Spillway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	type BI																	0.0	
	type BII																	0.0	
3. Canal Structures	type BIII																	0.0	
	type BIV																	0.0	
	type BV																	0.0	
	type BVI																	0.0	
	type BVII																	0.0	
	type EII																	0.0	
	type EIII																	0.0	
	type EIV																	0.0	
	Total	6.6	4.6	4.9	3.4	4.0	2.8	10.2	0	5.6	3.9	13.0	9.1	11.7	8.2	9.7	6.8	65.7	38.8
	type-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
type-II	1	0	1	0	3	0	2	1	2	0	2	1	2	0	2	0	2	15	
Total	1	0	1	0	4	1	3	2	2	0	2	2	2	0	2	0	2	16	
type-I	9	5	2	9	5	2	16	8	4	27	14	6	13	7	4	45	23	10	
type-II																			
type-III																			
Total	2	1	3	2	8	4	2	11	6	3	7	4	2	21	11	5	14	8	
type-I	8	4	2	2	1	4	2	1	0	0	3	2	1	3	2	1	1	1	
type-II																			
type-III																			
Total	0	0	0	0	4	2	1	3	2	1	5	3	1	4	2	1	5	3	
type-I	2	1	1	1	4	2	1	2	1	1	1	0	6	4	2	3	2	1	
type-II																			
type-III																			
Total	0	0	0	0	4	2	1	3	2	1	1	1	0	7	4	2	4	3	
type-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-II																			
type-III																			
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-I	1	1	1	1	4	2	1	3	2	1	1	1	0	7	4	2	4	3	
type-II																			
type-III																			
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-II																			
type-III																			
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-I	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
type-II																			
type-III																			
Total	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Anicut/Tank Name of Scheme: Muruthawela Scheme Kirama Oya

Name of Anicut/Tank	Kumbumalaya		Ela Priya		Uda Dobarawa		Anachchi		Wijanthive		Wauwa		Okwela		Pansala	
	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)	Presen Proposed (km) (nos)	Reh Reco (km) (nos)
1. Anicut																
Type																
Body	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Revetment	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Gate	4	0	6	0	4	0	3	0	1	0	5	0	4	0	2	0
Spillway	0	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0
2. Canal Works																
Type BI																
Type BII																
Type BIII																
Type BIV																
Type BV																
Type BV1																
Type BV1																
Type EI																
Type EII																
Type EIII																
Type EIV																
Total	8.0	5.6	2.6	1.8	4.8	3.4	9.7	0.8	1.4	1.0	4.0	2.8	4.3	3.0	2.5	1.8
3. Canal Structures																
3-1 Intake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Type-Ii	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Type-III	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Total	20	10	4	11	6	3	39	20	8	14	7	4	17	9	4	10
3-2 Turnout																
Type-IIt																
Total	10	5	2	5	3	1	20	10	2	7	4	2	9	5	2	10
3-3 Regulator																
Type-Ir																
Type-Irr																
Total	5	3	1	3	2	1	10	5	2	4	2	2	5	3	2	6
3-4 Drop																
Type-IId																
Type-IIId																
Total	5	3	1	3	2	1	10	5	2	4	2	2	5	3	2	6
3-5 Under Crossing																
Type-Ili																
Type-IIli																
Total	5	3	1	3	2	1	10	5	2	4	2	2	5	3	2	6
3-6 Spillway																
Type-IW																
Type-IIW																
Total	5	3	1	3	2	1	10	5	2	4	2	2	5	3	2	6
3-7 Over Bridge																
Type-Io																
Type-IIo																
Total	5	3	1	3	2	1	10	5	2	4	2	2	5	3	2	6
3-8 Parshall Flume																
Type-Ip																
Type-Ip																
Total	0	0	1	0	0	1	0	0	2	0	0	1	0	0	2	0
3-9 Aqueduct																
Type-Ia																
Type-IIa																
Total	2	2	0	1	1	0	0	2	2	0	1	0	1	1	0	0

Ancicut/Tank Name of Scheme: Muruthawela Scheme Kirama Oya

Name of Ancicut/Tank	Paniyawela		Ushantage		Kaharawata		Penoda		Liyagrekemiyaya		Niligama		Dandada		Wila		Maha		Danketiya		Total		
	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	Presen Proposed (km) (nos)	Rech. Reco (km) (nos)	
1. Ancicut	Body	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Revetment	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Gate	5	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0
	Spillway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Canal Works	type BI																						
	type BII																						
	type BIII																						
	type BIV																						
	type BV																						
	type BVII																						
	type BVIII																						
	type BIV																						
Total		5.9	4.1	2.7	1.9	2.7	1.9	1.1	0.8	2.1	1.5	5.7	4.0	2.1	1.5	2.7	1.9	3.2	2.2	N.A.	65.5	19.8	
3. Canal Structures	type-I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	type-II	2	1	1	0	1	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
	type-III	2	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Total		24	12	5	11	6	3	11	6	3	5	3	19	5	2	24	13	6	9	5	2	24	13
3.3 Regulator	type-Ir	12	6	3	6	3	2	3	2	1	5	3	13	7	4	5	3	1	3	2	1	7	4
	Total																						
3.4 Drop	type-IId	6	3	2	3	2	1	2	1	1	3	2	7	4	2	3	2	1	2	1	1	4	2
	Total																						
3.5 Under Crossing	type-Iu	6	3	2	3	2	1	2	1	1	3	2	7	4	2	3	2	1	2	1	1	4	2
	Total																						
3.6 Spillway	type-Ihw	6	3	2	3	2	1	2	1	1	3	2	7	4	2	3	2	1	2	1	1	4	2
	Total																						
3.7 Over Bridge	type-Io	6	3	2	3	2	1	2	1	1	3	2	7	4	2	3	2	1	2	1	1	4	2
	Total																						
3.8 Parshall Flume	type-Ip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																						
3.9 Aqueduct	type-Ia	2	2	0	1	1	0	0	0	0	0	0	2	0	1	1	0	3	0	4	0	4	0
	Total																						

App.5.1-3 Construction Volume of Badagiriya Scheme

Canal Structure Name of Scheme: Badagiriya Scheme

Name of Canal	Kata Inglekha Area																TOTAL		
	K1		K2		K3		K4		K5		K6		K7		K8		K9	K10	
	Phase	Volume	Phase	Volume	Phase	Volume	Phase	Volume	Phase	Volume	Phase	Volume	Phase	Volume	Phase	Volume			
1. Canal Works	Type III																		
	Type IIIA																		
	Type IIIB																		
	Type III C																		
	Type III D																		
2. Canal Structures	2.1. Weir																		
	2.2. Sluice																		
	2.3. Regulator																		
	2.4. Bridge																		
	2.5. Minor Structure																		
3. Drainage	3.1. Drainage																		
	3.2. Drainage																		
	3.3. Drainage																		
	3.4. Drainage																		
	3.5. Drainage																		
4. Flood Protection	4.1. Flood Protection																		
	4.2. Flood Protection																		
	4.3. Flood Protection																		
	4.4. Flood Protection																		
	4.5. Flood Protection																		

App.5.2-1 Unit Cost of Construction Works

App Unit Cost of Construction Works

Works	Description/Haul/Size	Unit	F/C (%)	L/C (%)	Unit Price (Rs.)	F/C (Rs.)	L/C (Rs.)	
1. Clearing & Grubbing	Common jungle	ha	20	80	19,054.67	3,810.93	15,243.74	
	Light jungle	Machinery ha	20	80	10,512.15	2,102.43	8,409.72	
		Manual ha	20	80	10,512.15	2,102.43	8,409.72	
2. Land Levelling		ha	20	80	2,778.80	555.76	2,223.04	
3. Excavation	Common	L=1/4 mile Machinery m3	20	80	74.46	14.89	59.57	
	Common	L=1/4 mile Manual m3	20	80	128.45	25.69	102.76	
	Rock	L=1 mile Machinery m3	20	80	248.11	49.62	198.49	
	Rock	L=1 mile Manual m3	20	80	345.89	69.18	276.71	
4. Earthfilling incl.Compaction	in dam	L=1 mile m3	20	80	115.31	23.06	92.25	
	in canal	L=1/4 mile m3	20	80	60.25	12.05	48.20	
5. Slope Protection	Turfing	L=1 mile Manual m2	20	80	17.09	3.42	13.68	
	Rubble	6-9" m3	20	80	472.48	94.50	377.98	
6. Concrete	1:4:8(1.1/2")	m3	20	80	2,114.77	422.95	1,691.82	
	1:3:6(1.1/2")	m3	20	80	2,357.97	471.59	1,886.38	
	1:2:4(1.1/2")	m3	20	80	2,709.01	541.80	2,167.21	
7. Reinforcement	Tor	kg	20	80	44.37	8.87	35.49	
	Mild	kg	20	80	41.17	8.23	32.93	
8. Formwork	3 uses	m2	20	80	209.97	41.99	167.97	
9. Rubble Masonry		m3	20	80	1,519.97	303.99	1,215.97	
10. Plastering	1:3 (1/2")	m2	20	80	66.71	13.34	53.37	
11. Canal Lining			20	80				
	Precast	2" thick	m2	20	144.69	28.94	115.75	
		4" thick	m2	20	289.39	57.88	231.51	
	Concrete incl.form	3" thick/1:3.6	m2	20	194.00	38.80	155.20	
	Brick		m3	20	1,509.02	301.80	1,207.22	
	Rubble	9" thick	m2	20	346.30	69.26	277.04	
			m3	20	1,519.97	303.99	1,215.97	
12. Gates for Turnout incl.Hoist	D=9"	each	20	80	4,279.50	855.90	3,423.60	
	D=12"	each	20	80	4,946.20	989.24	3,956.96	
	D=15"	each	20	80	7,877.20	1,575.44	6,301.76	
	D=18"	each	20	80	11,195.20	2,239.04	8,956.16	
	D=24"	each	20	80	15,455.82	3,091.16	12,364.66	
	D=30"	each	20	80	19,427.82	3,885.56	15,542.26	
Steel Gate for Anicut		each	20	280,000.00	56,000.00	224,000.00		
13. Wooden Gates for Regulator incl.Hoist			20	80				
	3'x3.25'	Manual each	20	80	310.00	62.00	248.00	
	4'x4'	Manual each	20	80	510.00	102.00	408.00	
	4'x5', 4.5'x4.5'	Manual each	20	80	700.00	140.00	560.00	
	5'x4.75'	Manual each	20	80	800.00	160.00	640.00	
	5.75'x5.5'	Manual each	20	80	900.00	180.00	720.00	
14. RCC Pipe incl.lay, joints, filling			20	80		0.00	0.00	
	D=6"	Manual m	20	80	438.68	87.74	350.94	
	D=9"	Manual m	20	80	560.93	112.19	448.74	
	D=12"	Manual m	20	80	709.68	141.94	567.74	
	D=15"	Manual m	20	80	886.61	177.32	709.29	
	D=18"	Manual m	20	80	1,177.59	235.52	942.07	
	D=24"	Manual m	20	80	1,502.26	300.45	1,201.81	
	D=30"	Manual m	20	80	2,499.25	499.85	1,999.40	
	Riprap	D=6-9" Machinery m3	20	80	472.48	94.50	377.98	
			m3	20	569.31	113.86	455.45	
15. Filter for dam	D=1.5" L=1 mile	m3	20	80	151.38	30.28	121.10	
16. Roadway wearing Surface(gravel)			20	80		0.00	0.00	
	Precast	L=35'	Machinery each	20	80	22,131.90	4,426.38	17,705.52
		L=20'	Machinery each	20	80	15,648.71	3,129.74	12,518.97
		L=11'	Machinery each	20	80	7,993.45	1,598.69	6,394.76
Handrail		m	20	80	1,472.00	294.40	1,177.60	
18. Flap Gate	each structure	each	20	80	2,700,000.00	540,000.00	2,160,000.00	

App.5.3-1 Construction Cost of Liyangastota Scheme (I/II)

W-1 Liyangastota Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Main Structure			0	0		0		0
2. RB Intake			0	0		0		0
3. LB Intake			0	0		0		0
Total		1	20,880,000	20,880,000	4176000	4,176,000	16,704,000	16,704,000

W-2 Walawe RB Main Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m	14,500	3,607	52,294,774	721	10,458,955	2,885	41,835,820
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m	1,600	2,754	4,406,374	551	881,275	2,203	3,525,099
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	2,200	1,561	3,433,614	312	686,723	1,249	2,746,892
type-BVII	m	3,900	1,294	5,045,039	259	1,009,008	1,035	4,036,031
type-EI	m	6,900	430	2,970,162	86	594,032	344	2,376,130
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				68,149,963		13,629,993		54,519,971
2. Canal Structures (Grade C)								
2-1 Intake type-Ii	nos		333,543	0	66,709	0	266,834	0
type-III	nos		127,233	0	25,447	0	101,787	0
2-2 Turnout type-Ii	nos		36,136	0	7,227	0	28,909	0
type-III	nos	16	24,036	384,577	4,807	76,915	19,229	307,662
2-3 Regulator type-Ir	nos		62,564	0	12,513	0	50,052	0
type-Iir	nos		46,630	0	9,326	0	37,304	0
2-4 Drop type-Iid	nos		80,731	0	16,146	0	64,585	0
type-Iid	nos		33,170	0	6,634	0	26,536	0
2-5 Under Crossing type-Iu	nos		65,198	0	13,040	0	52,159	0
type-Iuu	nos		60,606	0	12,121	0	48,485	0
2-6 Spillway type-Iw	nos		80,613	0	16,123	0	64,491	0
type-Iww	nos		40,307	0	8,061	0	32,245	0
2-7 Over Bridge type-Io	nos		206,648	0	41,330	0	165,318	0
type-Ioo	nos		106,982	0	21,396	0	85,586	0
2-8 Parshall Flume type-Ip	nos	1	18,312	18,312	3,662	3,662	14,649	14,649
type-Ipp	nos		12,283	0	2,457	0	9,826	0
2-9 Aqueduct type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total		17		402,889		80,578		322,311
3. Canal Structures (Grade B) : 100%								
3-1 Intake type-Ii	nos		333,543	0	66,709	0	266,834	0
type-III	nos		127,233	0	25,447	0	101,787	0
3-2 Turnout type-Ii	nos		36,136	0	7,227	0	28,909	0
type-III	nos	22	24,036	528,794	4,807	105,759	19,229	423,035
3-3 Regulator type-Ir	nos	1	62,564	62,564	12,513	12,513	50,052	50,052
type-Iir	nos	1	46,630	46,630	9,326	9,326	37,304	37,304
3-4 Drop type-Iid	nos		80,731	0	16,146	0	64,585	0
type-Iid	nos		33,170	0	6,634	0	26,536	0
3-5 Under Crossing type-Iu	nos		65,198	0	13,040	0	52,159	0
type-Iuu	nos		60,606	0	12,121	0	48,485	0
3-6 Spillway type-Iw	nos	1	80,613	80,613	16,123	16,123	64,491	64,491
type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245	32,245
3-7 Over Bridge type-Io	nos		206,648	0	41,330	0	165,318	0
type-Ioo	nos		106,982	0	21,396	0	85,586	0
3-8 Parshall Flume type-Ip	nos		18,312	0	3,662	0	14,649	0
type-Ipp	nos		12,283	0	2,457	0	9,826	0
3-9 Aqueduct type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total				758,909		151,782		607,127
4. Small Tank								
Mandagala Tank	nos	1	750,000	750,000	150,000	150,000	600,000	600,000
Lunama	nos	1	1,125,000	1,125,000	225,000	225,000	900,000	900,000
Sub-total		28		1,875,000		375,000		1,500,000
Total				71,186,761		14,237,352		56,949,409

App.5.3-1 Construction Cost of Liyangastota Scheme (2/11)

W-3 Walawe RB D-1 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,697	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m	1,400	2,754	3,855,577	551	771,115	2,203	3,084,462
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	1,700	1,561	2,653,248	312	530,650	1,249	2,122,598
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				6,508,825		1,301,765		5,207,060
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	2	36,136	72,272	7,227	14,454	28,909
		type-IIt	nos	15	24,036	360,541	4,807	72,108	19,229
2-3	Regulator	type-Ir	nos	2	62,564	0	12,513	0	50,052
		type-Irr	nos	2	46,630	93,261	9,326	18,652	37,304
2-4	Drop	type-IId	nos	2	80,731	0	16,146	0	64,585
		type-IId	nos	2	33,170	66,341	6,634	13,268	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	2	40,307	80,613	8,061	16,123	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	2	106,982	213,964	21,396	42,793	85,586
2-8	Parshall Flume	type-Ip	nos	1	18,312	18,312	3,662	3,662	14,649
		type-Ipp	nos		12,283	0	2,457	0	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		26		905,305		181,061		724,244
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	333,543	66,709	66,709	266,834	266,834
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	1	36,136	36,136	7,227	28,909	28,909
		type-IIt	nos	28	24,036	673,010	4,807	134,602	538,408
3-3	Regulator	type-Ir	nos	2	62,564	0	12,513	0	50,052
		type-Irr	nos	2	46,630	0	9,326	0	37,304
3-4	Drop	type-IId	nos	2	80,731	0	16,146	0	64,585
		type-IId	nos	2	33,170	0	6,634	0	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	2	40,307	0	8,061	0	32,245
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	2	106,982	0	21,396	0	85,586
3-8	Parshall Flume	type-Ip	nos	1	18,312	0	3,662	0	14,649
		type-Ipp	nos		12,283	0	2,457	0	9,826
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		30		1,042,689		208,538		834,151
Total					8,456,819		1,691,364		6,765,455

App.5.3-1 Construction Cost of Liyangastota Scheme (3/11)

W-4 Walawe RB D-2 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,100	1,294	1,422,960	259	284,592	1,035	1,138,368
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				1,422,960		284,592		1,138,368
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	2	36,136	72,272	7,227	14,454	28,909
		type-IIi	nos	6	24,036	144,217	4,807	28,843	19,229
									57,818
2-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-IIr	nos	2	46,630	93,261	9,326	18,652	37,304
									74,609
2-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IIId	nos	2	33,170	66,341	6,634	13,268	26,536
									53,073
2-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-IIu	nos		60,606	0	12,121	0	48,485
2-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-IIw	nos	2	40,307	80,613	8,061	16,123	32,245
									64,491
2-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-IIo	nos	2	106,982	213,964	21,396	42,793	85,586
									171,172
2-8	Parshall Flume	type-Ip	nos	1	18,312	18,312	3,662	3,662	14,649
		type-IIp	nos		12,283	0	2,457	0	9,826
2-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-IIa	nos		25,167	0	5,033	0	20,134
	Sub-total		17		688,980		137,796		551,184
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	1	127,233	127,233	25,447	25,447	101,787
3-2	Turnout	type-Ii	nos		36,136	0	7,227	0	28,909
		type-IIi	nos		24,036	0	4,807	0	19,229
									0
3-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-IIr	nos		46,630	0	9,326	0	37,304
									0
3-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IIId	nos		33,170	0	6,634	0	26,536
									0
3-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-IIu	nos		60,606	0	12,121	0	48,485
3-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-IIw	nos		40,307	0	8,061	0	32,245
									0
3-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-IIo	nos		106,982	0	21,396	0	85,586
									0
3-8	Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-IIp	nos		12,283	0	2,457	0	9,826
									0
3-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-IIa	nos		25,167	0	5,033	0	20,134
	Sub-total		1		127,233		25,447		101,787
Total					2,239,173		447,835		1,791,338

App.5.3-1 Construction Cost of Liyangastofa Scheme (4/11)

W-5 Walawe RB D-3 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m	5,600	2,754	15,422,308	551	3,084,462	2,203	12,337,847
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	5,300	1,561	8,271,889	312	1,654,378	1,249	6,617,512
	type-BVII	m	1,300	1,294	1,681,680	259	336,336	1,035	1,345,344
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				25,375,877		5,075,175		20,300,702
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	5	36,136	180,681	7,227	36,136	28,909
		type-Iit	nos	39	24,036	937,407	4,807	187,481	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	1	46,630	46,630	9,326	9,326	37,304
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	3	33,170	99,511	6,634	19,902	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	2	106,982	213,964	21,396	42,793	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	18,312	3,662	3,662	14,649	14,649
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		51		1,496,506		299,301		1,197,205
3. Canal Structures (Grade B)									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	5	36,136	0	7,227	0	28,909
		type-Iit	nos	39	24,036	0	4,807	0	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	2	106,982	0	21,396	0	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		0		0		0		0
4. Small Tanks									
	Oliwila Tank	LS	1	1,500,000	1,500,000	300,000	300,000	1,200,000	1,200,000
	Sub-total				1,500,000		300,000		1,200,000
Total					26,875,877		5,375,175		21,500,702

App.5.3-1 Construction Cost of Liyangastota Scheme (5/11)

W-6 Walawe LB Feeder Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m	3,000	3,607	10,819,609	721	2,163,922	2,835	8,655,687
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m	4,000	430	1,721,833	86	344,367	344	1,377,466
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				12,541,442		2,508,288		10,033,153
2. Canal Structures (Grade C)								
2-1 Intake type-Ii	nos	2	333,543	667,085	66,709	133,417	266,834	533,668
type-Iii	nos		127,233	0	25,447	0	101,787	0
2-2 Turnout type-Ii	nos		36,136	0	7,227	0	28,909	0
type-Iii	nos		24,036	0	4,807	0	19,229	0
2-3 Regulator type-Ir	nos		62,564	0	12,513	0	50,052	0
type-Irr	nos		46,630	0	9,326	0	37,304	0
2-4 Drop type-Id	nos		80,731	0	16,146	0	64,585	0
type-IId	nos		33,170	0	6,634	0	26,536	0
2-5 Under Crossing type-Iu	nos		65,198	0	13,040	0	52,159	0
type-Iuu	nos		60,606	0	12,121	0	48,485	0
2-6 Spillway type-Iw	nos	2	80,613	161,226	16,123	32,245	64,491	128,981
type-Iww	nos		40,307	0	8,061	0	32,245	0
2-7 Over Bridge type-Io	nos	3	206,648	619,943	41,330	123,989	165,318	495,954
type-Ioo	nos		106,982	0	21,396	0	85,586	0
2-8 Parshall Flume type-Ip	nos	2	18,312	36,624	3,662	7,325	14,649	29,299
type-Ipp	nos		12,283	0	2,457	0	9,826	0
2-9 Aqueduct type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total		9		1,484,878		296,976		1,187,902
3. Canal Structures (Grade B) : 100%								
3-1 Intake type-Ii	nos		333,543	0	66,709	0	266,834	0
type-Iii	nos		127,233	0	25,447	0	101,787	0
3-2 Turnout type-Ii	nos		36,136	0	7,227	0	28,909	0
type-Iii	nos		24,036	0	4,807	0	19,229	0
3-3 Regulator type-Ir	nos		62,564	0	12,513	0	50,052	0
type-Irr	nos		46,630	0	9,326	0	37,304	0
3-4 Drop type-Id	nos		80,731	0	16,146	0	64,585	0
type-IId	nos		33,170	0	6,634	0	26,536	0
3-5 Under Crossing type-Iu	nos		65,198	0	13,040	0	52,159	0
type-Iuu	nos		60,606	0	12,121	0	48,485	0
3-6 Spillway type-Iw	nos		80,613	0	16,123	0	64,491	0
type-Iww	nos		40,307	0	8,061	0	32,245	0
3-7 Over Bridge type-Io	nos	1	206,648	206,648	41,330	41,330	165,318	165,318
type-Ioo	nos		106,982	0	21,396	0	85,586	0
3-8 Parshall Flume type-Ip	nos		18,312	0	3,662	0	14,649	0
type-Ipp	nos		12,283	0	2,457	0	9,826	0
3-9 Aqueduct type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total		1		206,648		41,330		165,318
Total				14,232,967		2,846,593		11,386,374

App.5.3-1 Construction Cost of Liyangastota Scheme (6/11)

W-7 Ridiyagama Tank

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Main Structure	LS		0	0		0		0
2. RB Intake	LS		0	0		0		0
3. LB Intake	LS		0	0		0		0
Total		1	39,150,000	39,150,000	7,830,000	7,830,000	31,320,000	31,320,000

W-8 LB Main Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m	1,200	3,607	4,327,843	721	865,569	2,885	3,462,275
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	600	1,561	936,440	312	187,288	1,249	749,152
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				5,264,284		1,052,857		4,211,427
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-IIt	nos	6	36,136	7,227	43,363	28,909	173,454
	type-IIIt	nos	40	24,036	4,807	192,289	19,229	769,155
2-3 Regulator	type-Ir	nos	1	62,564	12,513	12,513	50,052	50,052
	type-Irr	nos		46,630	9,326	0	37,304	0
2-4 Drop	type-Id	nos		80,731	16,146	0	64,585	0
	type-IId	nos		33,170	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos		65,198	13,040	0	52,159	0
	type-Iuu	nos		60,606	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	1	80,613	16,123	16,123	64,491	64,491
	type-Iww	nos		40,307	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos	1	206,648	41,330	41,330	165,318	165,318
	type-Ioo	nos		106,982	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	1	18,312	3,662	3,662	14,649	14,649
	type-Ipp	nos		12,283	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos		2,906,525	581,305	0	2,325,220	0
	type-Iaa	nos		25,167	5,033	0	20,134	0
Sub-total		50		1,546,397		309,279		1,237,118
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	1	333,543	66,709	66,709	266,834	266,834
	type-Iii	nos		127,233	25,447	0	101,787	0
3-2 Turnout	type-IIt	nos		36,136	7,227	0	28,909	0
	type-IIIt	nos	9	24,036	4,807	43,265	19,229	173,060
3-3 Regulator	type-Ir	nos		62,564	12,513	0	50,052	0
	type-Irr	nos		46,630	9,326	0	37,304	0
3-4 Drop	type-Id	nos		80,731	16,146	0	64,585	0
	type-IId	nos		33,170	6,634	0	26,536	0
3-5 Under Crossing	type-Iu	nos		65,198	13,040	0	52,159	0
	type-Iuu	nos		60,606	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos		80,613	16,123	0	64,491	0
	type-Iww	nos		40,307	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos		206,648	41,330	0	165,318	0
	type-Ioo	nos		106,982	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos		18,312	3,662	0	14,649	0
	type-Ipp	nos		12,283	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos		2,906,525	581,305	0	2,325,220	0
	type-Iaa	nos		25,167	5,033	0	20,134	0
Sub-total		10		549,868		109,974		439,894
4. Kadawara Tank								
Sub-total	LS	1	13,500,000	13,500,000	2,700,000	2,700,000	10,800,000	10,800,000
Total				20,860,549		4,172,110		16,688,439

App.5.3-1 Construction Cost of Llyangastota Scheme (7/11)

W-9 LBNCB Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Canal Works									
type-BI	m		3,607	0	721	0	2,885	0	
type-BII	m		2,984	0	597	0	2,388	0	
type-BIII	m		2,754	0	551	0	2,203	0	
type-BIV	m		2,413	0	483	0	1,931	0	
type-BV	m	2,700	2,010	5,427,897	402	1,085,579	1,608	4,342,318	
type-BVI	m		1,561	0	312	0	1,249	0	
type-BVII	m	4,800	1,294	6,209,278	259	1,241,856	1,035	4,967,423	
type-EI	m		430	0	86	0	344	0	
type-EII	m		349	0	70	0	280	0	
type-EIII	m		300	0	60	0	240	0	
type-EIV	m		63	0	13	0	50	0	
Sub-total				11,637,176		2,327,435		9,309,741	
2. Canal Structures (Grade C)									
2-1 Intake	type-Ii	nos	1	333,543	333,543	66,709	66,709	266,834	266,834
	type-III	nos		127,233	0	25,447	0	101,787	0
2-2 Turnout	type-Ii	nos	4	36,136	144,545	7,227	28,909	28,909	115,636
	type-III	nos	41	24,036	985,479	4,807	197,096	19,229	788,384
2-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
	type-Irr	nos	3	46,630	139,891	9,326	27,978	37,304	111,913
2-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	0
	type-IId	nos	1	33,170	33,170	6,634	6,634	26,536	26,536
2-5 Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159	0
	type-Iuu	nos		60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	0
	type-Iww	nos		40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318	0
	type-Ioo	nos		106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649	0
	type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826	9,826
2-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total		51		1,648,912		329,782		1,319,129	
3. Canal Structures (Grade B) : 100%									
3-1 Intake	type-Ii	nos		333,543	0	66,709	0	266,834	0
	type-III	nos		127,233	0	25,447	0	101,787	0
3-2 Turnout	type-Ii	nos		36,136	0	7,227	0	28,909	0
	type-III	nos	38	24,036	913,371	4,807	182,674	19,229	730,697
3-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
	type-Irr	nos		46,630	0	9,326	0	37,304	0
3-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	0
	type-IId	nos		33,170	0	6,634	0	26,536	0
3-5 Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159	0
	type-Iuu	nos		60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	0
	type-Iww	nos		40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318	0
	type-Ioo	nos		106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649	0
	type-Ipp	nos		12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos		25,167	0	5,033	0	20,134	0
Sub-total		38		913,371		182,674		730,697	
Total				14,199,458		2,839,892		11,359,567	

App.5.3-1 Construction Cost of Liyangastota Scheme (8/11)

W-101.B.NRB Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m	900	2,413	2,171,908	483	434,382	1,931	1,737,526
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	8,300	1,561	12,954,091	312	2,590,818	1,249	10,363,273
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
	type-EI	m		430	0	86	0	344	0
	type-EH	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				15,643,439		3,128,688		12,514,751
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	1	127,233	127,233	25,447	25,447	101,787
2-2	Turnout	type-IIt	nos	5	36,136	180,681	7,227	36,136	28,909
		type-IItt	nos	48	24,036	1,153,732	4,807	230,746	19,229
2-3	Regulator	type-Ir	nos	1	62,564	62,564	12,513	12,513	50,052
		type-Irr	nos	2	46,630	93,261	9,326	18,652	37,304
2-4	Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IIdd	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossin	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	1	206,648	206,648	41,330	41,330	165,318
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		58		1,824,119		364,824		1,459,295
3. Canal Structures (Grade B) 1									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	1	127,233	0	25,447	0	101,787
3-2	Turnout	type-IIt	nos	5	36,136	0	7,227	0	28,909
		type-IItt	nos	48	24,036	0	4,807	0	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IIdd	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossin	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		0		0		0		0
Total					17,467,558		3,493,512		13,974,046

App.5.3-1 Construction Cost of Liyangastota Scheme (9/11)

W-11 LB SLB Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m	4,800	2,754	13,219,122	551	2,643,824	2,203	10,575,297
	type-BIV	m	10,600	2,413	25,580,249	483	5,116,050	1,931	20,464,199
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	700	1,561	1,092,514	312	218,503	1,249	874,011
	type-BVII	m	2,100	1,294	2,716,559	259	543,312	1,035	2,173,247
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				42,608,444		8,521,689		34,086,755
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	6	36,136	216,817	7,227	43,363	28,909
		type-III	nos	62	24,036	1,490,237	4,807	298,047	19,229
2-3	Regulator	type-Ir	nos	1	62,564	62,564	12,513	12,513	50,052
		type-Irr	nos	5	46,630	233,152	9,326	46,630	37,304
2-4	Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	3	33,170	99,511	6,634	19,902	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	6	40,307	241,840	8,061	48,368	32,245
2-7	Over Bridge	type-Io	nos	8	206,648	1,653,180	41,330	330,636	165,318
		type-Ioo	nos	11	106,982	1,176,804	21,396	235,361	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		103		5,186,390		1,037,278		4,149,112
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	333,543	66,709	66,709	266,834	266,834
		type-III	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	31	24,036	745,119	4,807	149,024	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		32		1,078,661		215,732		862,929
Total					48,873,495		9,774,699		39,098,796

App.5.3-1 Construction Cost of Liyangastota Scheme (10/11)

W-12 LB SCB Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m	3,800	2,413	9,170,278	483	1,834,056	1,931	7,336,222
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	700	1,294	905,520	259	181,104	1,035	724,416
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				10,075,798		2,015,160		8,060,638
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	325,226	7,227	65,045	28,909	260,180
		type-III	nos	24,036	576,866	4,807	115,373	19,229	461,493
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		35		961,005		192,201		768,804
3. Canal Structures (Grade B)									
3-1	Intake	type-Ii	nos	333,543	333,543	66,709	66,709	266,834	266,834
		type-III	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	144,217	4,807	28,843	19,229	115,373
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				477,759		95,552		382,207
Total			6		11,514,562		2,302,912		9,211,650

App.5.3-1 Construction Cost of Liyangastota Scheme (11/11)

W-13LB SRB Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m	2,800	2,754	7,711,154	551	1,542,231	2,203	6,168,923
	type-BIV	m	5,300	2,413	12,790,125	483	2,558,025	1,931	10,232,100
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	1,100	1,561	1,716,807	312	343,361	1,249	1,373,446
	type-BVII	m	7,700	1,294	9,960,717	259	1,992,143	1,035	7,968,574
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				32,178,803		6,435,761		25,743,043
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	650,451	7,227	130,090	28,909	520,361
		type-IIt	nos	24,036	1,321,985	4,807	264,397	19,229	1,057,588
2-3	Regulator	type-Ir	nos	62,564	187,693	12,513	37,539	50,052	150,155
		type-Irr	nos	46,630	233,152	9,326	46,630	37,304	186,522
2-4	Drop	type-Id	nos	80,731	242,194	16,146	48,439	64,585	193,755
		type-IId	nos	33,170	165,852	6,634	33,170	26,536	132,682
2-5	Under Crossin	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	241,840	16,123	48,368	64,491	193,472
		type-Iww	nos	40,307	201,533	8,061	40,307	32,245	161,226
2-7	Over Bridge	type-Io	nos	206,648	619,943	41,330	123,989	165,318	495,954
		type-Ioo	nos	106,982	534,911	21,396	106,982	85,586	427,929
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		106		4,411,837		882,367		3,529,469
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	333,543	66,709	66,709	266,834	266,834
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	1,514,273	4,807	302,855	19,229	1,211,419
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossin	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total		64		1,847,816		369,563		1,478,253
Total					38,438,456		7,687,691		30,750,765

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (1/20) Muruthawela I.B

M-1 Muruthawela Reservoir

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Main Structure								
2. RB Intake								
3. LB Intake								
Total								

M-2 LB Main Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Canal Works									
type-BI	m		3,607	0	721	0	2,885	0	
type-BII	m	2,550	2,984	7,610,203	597	1,522,041	2,388	6,088,163	
type-BIII	m	5,100	2,754	14,045,317	551	2,809,063	2,203	11,236,253	
type-BIV	m		2,413	0	483	0	1,931	0	
type-BV	m		2,010	0	402	0	1,608	0	
type-BVI	m		1,561	0	312	0	1,249	0	
type-BVII	m		1,294	0	259	0	1,035	0	
type-EI	m	2,550	430	1,097,669	86	219,534	344	878,135	
type-EII	m	5,100	349	1,782,331	70	356,466	280	1,425,865	
type-EIII	m		300	0	60	0	240	0	
type-EIV	m		63	0	13	0	50	0	
Sub-total				24,535,520		4,907,104		19,628,416	
2. Canal Structures (Grade C)									
2-1 Intake	type-Ii	nos	1	333,543	333,543	66,709	66,709	266,834	266,834
	type-IIi	nos		127,233	0	25,447	0	101,787	0
2-2 Turnout	type-Ii	nos	2	36,136	72,272	7,227	14,454	28,909	57,818
	type-IIi	nos	5	24,036	120,180	4,807	24,036	19,229	96,144
2-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
	type-IIr	nos		46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	0
	type-IIId	nos		33,170	0	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159	0
	type-IIu	nos		60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	1	80,613	80,613	16,123	16,123	64,491	64,491
	type-IIw	nos		40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318	0
	type-IIo	nos		106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	2	18,312	36,624	3,662	7,325	14,649	29,299
	type-IIp	nos		12,283	0	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos	1	2,906,525	2,906,525	581,305	581,305	2,325,220	2,325,220
	type-IIa	nos		25,167	0	5,033	0	20,134	0
Sub-total				3,549,757		709,951		2,839,806	
3. Canal Structures (Grade B) : 100%									
3-1 Intake	type-Ii	nos	1	333,543	333,543	66,709	66,709	266,834	266,834
	type-IIi	nos		127,233	0	25,447	0	101,787	0
3-2 Turnout	type-Ii	nos	1	36,136	36,136	7,227	7,227	28,909	28,909
	type-IIi	nos	1	24,036	24,036	4,807	4,807	19,229	19,229
3-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
	type-IIr	nos		46,630	0	9,326	0	37,304	0
3-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	0
	type-IIId	nos	1	33,170	33,170	6,634	6,634	26,536	26,536
3-5 Under Crossing	type-Iu	nos	15	65,198	977,975	13,040	195,595	52,159	782,380
	type-IIu	nos		60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	1	80,613	80,613	16,123	16,123	64,491	64,491
	type-IIw	nos	1	40,307	40,307	8,061	8,061	32,245	32,245
3-7 Over Bridge	type-Io	nos	14	206,648	2,893,065	41,330	578,613	165,318	2,314,452
	type-IIo	nos		106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649	0
	type-IIp	nos		12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220	0
	type-IIa	nos		25,167	0	5,033	0	20,134	0
Sub-total				4,418,845		883,769		3,535,076	
Total				32,504,122		6,500,824		26,003,298	

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (2/20)

Muruthawela LB

M-3 LB Branch Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m	1,250	2,413	3,016,539	483	603,308	1,931	2,413,231
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m		1,294	0	259	0	1,035	0
	type-BI	m		430	0	86	0	344	0
	type-BII	m		349	0	70	0	280	0
	type-BIII	m	1,250	300	375,181	60	75,036	240	300,145
	type-BIV	m		63	0	13	0	50	0
Sub-total					3,391,720		678,344		2,713,376
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	36,136	7,227	7,227	28,909	28,909
		type-IIt	nos	24,036	480,722	4,807	96,144	19,229	384,577
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	1,033,238	41,330	206,648	165,318	826,590
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					1,550,095		310,019		1,240,076
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	1,130,239	16,146	226,048	64,585	904,191
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	195,595	13,040	39,119	52,159	156,476
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	5,813,050	581,305	1,162,610	2,325,220	4,650,440
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					7,138,884		1,427,777		5,711,107
Total					12,080,699		2,416,140		9,664,559
LB Main/Branch Canal Total					44,584,821		8,916,964		35,667,857

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (3/20)

Muruthawela LB

M-4 Tract II, D-1 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m	4,800	2,010	9,649,595	402	1,929,919	1,608	7,719,676
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				9,649,595		1,929,919		7,719,676
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	0	333,543	0	66,709	0	266,834
		type-Iii	nos	0	127,233	0	25,447	0	101,787
2-2	Turnout	type-It	nos	8	36,136	289,089	7,227	57,818	28,909
		type-IIt	nos	26	24,036	624,938	4,807	124,988	19,229
2-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos		46,630	0	9,326	0	37,304
2-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IId	nos	9	33,170	298,534	6,634	59,707	26,536
2-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos		60,606	0	12,121	0	48,485
2-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-IIw	nos		40,307	0	8,061	0	32,245
2-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos	10	106,982	1,069,822	21,396	213,964	85,586
2-8	Parshall Flume	type-Ip	nos	1	18,312	18,312	3,662	3,662	14,649
		type-IIp	nos		12,283	0	2,457	0	9,826
2-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos		25,167	0	5,033	0	20,134
	Sub-total				2,300,695		460,139		1,840,556
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos		333,543	0	66,709	0	266,834
		type-Iii	nos		127,233	0	25,447	0	101,787
3-2	Turnout	type-It	nos		36,136	0	7,227	0	28,909
		type-IIt	nos		24,036	0	4,807	0	19,229
3-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos	2	46,630	93,261	9,326	18,652	37,304
3-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IId	nos	2	33,170	66,341	6,634	13,268	26,536
3-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos	9	60,606	545,451	12,121	109,090	48,485
3-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-IIw	nos		40,307	0	8,061	0	32,245
3-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos		106,982	0	21,396	0	85,586
3-8	Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-IIp	nos		12,283	0	2,457	0	9,826
3-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos		25,167	0	5,033	0	20,134
	Sub-total				705,053		141,011		564,042
Total					12,655,344		2,531,069		10,124,275

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (4/20) Muruthawela LB

M-5 Tract II, D-2 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,500	1,294	1,940,399	259	388,080	1,035	1,552,320
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					1,940,399		388,080		1,552,320
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	72,272	7,227	14,454	28,909	57,818
		type-Ilt	nos	24,036	192,289	4,807	38,458	19,229	153,831
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	232,193	6,634	46,439	26,536	185,754
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	320,947	21,396	64,189	85,586	256,757
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					829,984		165,997		663,987
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-Ilt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					33,170		6,634		26,536
Total					2,803,554		560,711		2,242,843

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (5/20) Murothawela LB

M-6 Tract II, D-3 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,904
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				1,034,880		206,976		827,904
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	108,409	7,227	21,682	28,909	86,727
		type-IIt	nos	24,036	240,361	4,807	48,072	19,229	192,289
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	427,929	21,396	85,586	85,586	342,343
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				788,981		157,796		631,185
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	331,704	6,634	66,341	26,536	265,363
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				331,704		66,341		265,363
Total					2,155,565		431,113		1,724,452

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (6/20)

Muruthawela LB

M-7 Tract II, D-4 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,928
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					776,160		155,232		620,928
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	108,409	7,227	21,682	28,909	86,727
		type-III	nos	24,036	216,325	4,807	43,265	19,229	173,060
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	242,194	16,146	48,439	64,585	193,755
		type-IIId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	320,947	21,396	64,189	85,586	256,757
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					900,157		180,031		720,126
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					33,170		6,634		26,536
Total					1,709,487		341,897		1,367,590

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (7/20)

Muruthawela LB

M-8 Tract II, D-5 Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				517,440		103,488		413,952
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	72,272	7,227	14,454	28,909	57,818
	type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				271,077		54,215		216,861
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				46,630		9,326		37,304
Total				835,147		167,029		668,118

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (8/20)

Muruthawela LB

M-9 Tract II, D-6 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,200	1,294	1,552,320	259	310,464	1,035	1,241,856
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					1,552,320		310,464		1,241,856
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	4	36,136	144,545	7,227	28,909	115,636
		type-IIt	nos	12	24,036	288,433	4,807	57,687	230,746
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	2	33,170	66,341	6,634	13,268	53,073
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	2	106,982	213,964	21,396	42,793	171,172
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					725,566		145,113		580,453
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	4	36,136	0	7,227	0	28,909
		type-IIt	nos	12	24,036	0	4,807	0	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	1	46,630	46,630	9,326	9,326	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	2	60,606	121,211	12,121	24,242	96,969
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					241,319		48,264		193,055
Total					2,519,204		503,841		2,015,364

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (9/20) Muruthawela LB

M-10 Tract II, D-7 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	700	1,294	905,520	259	181,104	1,035	724,416
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				905,520		181,104		724,416
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-IIt	nos	4	36,136	144,545	7,227	28,909	115,636
		type-IIIt	nos	14	24,036	336,505	4,807	67,301	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				694,091		138,818		555,273
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-IIt	nos	4	36,136	144,545	7,227	28,909	115,636
		type-IIIt	nos	14	24,036	336,505	4,807	67,301	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				0		0		0
Total					1,599,611		319,922		1,279,689

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela I.B Scheme - (10/20) Muruthawela I.B

M-11 Tract II, D-8 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,900	1,294	2,457,839	259	491,568	1,035	1,966,271
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					2,457,839		491,568		1,966,271
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Ili	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	4	36,136	144,545	7,227	28,909	115,636
		type-IIt	nos	12	24,036	288,433	4,807	57,687	230,746
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	4	33,170	132,682	6,634	26,536	106,145
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	4	106,982	427,929	21,396	85,586	342,343
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					1,005,871		201,174		804,697
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Ili	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	4	36,136	144,545	7,227	28,909	115,636
		type-IIt	nos	12	24,036	288,433	4,807	57,687	230,746
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	2	46,630	93,261	9,326	18,652	74,609
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	2	33,170	66,341	6,634	13,268	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	4	60,606	242,423	12,121	48,485	193,938
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	2	40,307	80,613	8,061	16,123	64,491
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	4	106,982	427,929	21,396	85,586	342,343
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					482,638		96,528		386,110
Total					3,946,348		789,270		3,157,079

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (11/20) Muruthawela LB

M-12 Tract II, D-9 Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	2,400	1,294	3,104,639	259	620,928	1,035	2,483,711
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				3,104,639		620,928		2,483,711
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	289,089	7,227	57,818	28,909	231,271
	type-IIt	nos	24,036	600,902	4,807	120,180	19,229	480,722
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	165,852	6,634	33,170	26,536	132,682
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	534,911	21,396	106,982	85,586	427,929
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				1,603,038		320,608		1,282,430
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	99,511	6,634	19,902	26,536	79,609
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	303,028	12,121	60,606	48,485	242,423
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	120,920	8,061	24,184	32,245	96,736
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				663,351		132,670		530,681
Total				5,371,028		1,074,206		4,296,822
Tract II total				33,595,288		6,719,058		26,876,231

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (12/20) Muruthawela LB

M-13 Tract III, D-1 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	2,700	1,294	3,492,719	259	698,544	1,035	2,794,175
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					3,492,719		698,544		2,794,175
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	36,136	7,227	7,227	28,909	28,909
		type-III	nos	24,036	913,371	4,807	182,674	19,229	730,697
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	398,045	6,634	79,609	26,536	318,436
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	748,876	21,396	149,775	85,586	599,100
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					2,108,711		421,742		1,686,969
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					66,341		13,268		53,073
Total					5,667,771		1,133,554		4,534,217

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (13/20) Muruthawela LB

M-14 Tract III, D-2 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	2,500	1,561	3,901,835	312	780,367	1,249	3,121,468
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					3,901,835		780,367		3,121,468
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	35	24,036	841,263	4,807	168,253	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	14	33,170	464,386	6,634	92,877	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	10	106,982	1,069,822	21,396	213,964	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					2,387,754		477,551		1,910,203
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	3	33,170	99,511	6,634	19,902	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					99,511		19,902		79,609
Total					6,389,100		1,277,820		5,111,280

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (14/20) Muruthawela LB

M-15 Tract III, D-3 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					517,440		103,488		413,952
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	216,325	4,807	43,265	19,229	173,060
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	60,606	12,121	12,121	48,485	48,485
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					322,384		64,477		257,907
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total					0		0		0
Total					839,824		167,965		671,859

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (15/20) Muruthawela LB

M-16 Tract III, D-4 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
J. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,928
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					776,160		155,232		620,928
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	144,217	4,807	28,843	19,229	115,373
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	265,363	6,634	53,073	26,536	212,291
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					421,863		84,373		337,490
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					33,170		6,634		26,536
Total					1,231,193		246,239		984,955

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LR Scheme - (16/20) Muruthawela LB

M-17 Tract III, D-5 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					517,440		103,488		413,952
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	216,325	4,807	43,265	19,229	173,060
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	99,511	6,634	19,902	26,536	79,609
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	427,929	21,396	85,586	85,586	342,343
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					756,048		151,210		604,838
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					33,170		6,634		26,536
Total					1,306,658		261,332		1,045,327

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (17/20) Muruthawela LB

M-18 Tract III, D-6 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,300	1,294	1,681,680	259	336,336	1,035	1,345,344
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					1,681,680		336,336		1,345,344
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	240,361	4,807	48,072	19,229	192,289
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					392,796		78,559		314,237
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					60,606		12,121		48,485
Total					2,135,082		427,016		1,708,065

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (18/20) Muruthawela LB

M-19 Tract III, D-7 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,700	1,294	2,199,119	259	439,824	1,035	1,759,295
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					2,199,119		439,824		1,759,295
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	12	24,036	288,433	4,807	57,687	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	4	33,170	132,682	6,634	26,536	106,145
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	4	106,982	427,929	21,396	85,586	342,343
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					861,327		172,265		689,061
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	2	46,630	93,261	9,326	18,652	74,609
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	2	33,170	66,341	6,634	13,268	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	4	60,606	242,423	12,121	48,485	193,938
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	2	40,307	80,613	8,061	16,123	64,491
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					482,638		96,528		386,110
Total					3,543,084		708,617		2,834,467

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (19/20) Muruthawela LB

M-20 Tract III, D-8 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,904
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				1,034,880		206,976		827,904
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	108,409	7,227	21,682	28,909	86,727
		type-IIt	nos	24,036	192,289	4,807	38,458	19,229	153,831
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	99,511	6,634	19,902	26,536	79,609
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				412,491		82,498		329,993
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				79,801		15,960		63,841
Total					1,527,172		305,434		1,221,738

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (20/20)

Muruthawela LB

M-21 Tract III, D-9 Canal

Construction Works			Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
	Unit	Quantity	Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
	type-BI	m	3,607	0	721	0	2,885	0
	type-BII	m	2,984	0	597	0	2,388	0
	type-BIII	m	2,754	0	551	0	2,203	0
	type-BIV	m	2,413	0	483	0	1,931	0
	type-BV	m	2,010	0	402	0	1,608	0
	type-BVI	m	1,561	0	312	0	1,249	0
	type-BVII	m	1,294	646,800	259	129,360	1,035	517,440
	type-EI	m	430	0	86	0	344	0
	type-EII	m	349	0	70	0	280	0
	type-EIII	m	300	0	60	0	240	0
	type-EIV	m	63	0	13	0	50	0
	Sub-total			646,800		129,360		517,440
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	36,136	7,227	7,227	28,909	28,909
	type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total			201,770		40,354		161,416
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
3-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total			0	0	0	0	0
Total				848,570	169,714	678,856		

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (1/16)

U-1 Raluwa Nawarathe Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	4,600	1,561	7,179,376	312	1,435,875	1,249	5,743,501
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				7,179,376		1,435,875		5,743,501
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0		0		0
3. Anicut (Grade B : 50%)								
3-1 Body			703,877	167,073	140,775	0	563,102	167,073
3-2 Gate			140,000	167,073	28,000	0	112,000	167,073
3-3 Revetment			104,420	208,841	20,884	41,768	83,536	167,073
3-4 Spill			352,606	167,073	70,521	0	282,085	167,073
Sub-total				710,059		41,768		668,290
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-Iit	nos	24,036	48,072	4,807	9,614	19,229	38,458
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Iid	nos	33,170	66,341	6,634	13,268	26,536	53,073
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				340,867		68,173		272,693
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-Iit	nos	24,036	120,180	4,807	24,036	19,229	96,144
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Iid	nos	33,170	132,682	6,634	26,536	26,536	106,145
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				364,966		72,993		291,973
Total				8,595,267		1,618,810		6,976,457

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (2/16)

U-2 Kinchigune Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	3,400	1,561	5,306,495	312	1,061,299	1,249	4,245,196
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				5,306,495		1,061,299		4,245,196
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0	0	0	0	0
3. Anicut (Grade B : 50%)								
3-1 Body			703,877	167,073	140,775	0	563,102	167,073
3-2 Gate			140,000	167,073	28,000	0	112,000	167,073
3-3 Revetment			104,420	208,841	20,884	41,768	83,536	167,073
3-4 Spill			352,606	167,073	70,521	0	282,085	167,073
Sub-total				710,059		41,768		668,290
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-IIi	nos	24,036	48,072	4,807	9,614	19,229	38,458
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-IIr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IIu	nos	60,606	0	12,121	0	48,485	0
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IIw	nos	40,307	0	8,061	0	32,245	0
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-IIo	nos	106,982	0	21,396	0	85,586	0
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total				267,389		53,478		213,912
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-IIi	nos	24,036	120,180	4,807	24,036	19,229	96,144
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-IIr	nos	46,630	93,261	9,326	18,652	37,304	74,609
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IIu	nos	60,606	0	12,121	0	48,485	0
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-IIo	nos	106,982	0	21,396	0	85,586	0
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-IIp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IIa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				312,085		62,417		249,668
Total				6,596,029		1,218,962		5,377,066

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (3/16)

U-3 Uđukiriwifa Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	2,800	1,561	4,370,055	312	874,011	1,249	3,496,044
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				4,370,055		874,011		3,496,044
2. Anicut (Grade C)									
	2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
	2-1 Gate	nos		280,000	0	56,000	0	224,000	0
	2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
	2-4 Spill	nos		705,212	0	141,042	0	564,170	0
	Sub-total				0		0		0
3. Anicut (Grade B : 50%)									
	3-1 Body			703,877	0	140,775	0	563,102	0
	3-2 Gate			140,000	0	28,000	0	112,000	0
	3-3 Revetment	1		104,420	104,420	20,884	20,884	83,536	83,536
	3-4 Spill			352,606	0	70,521	0	282,085	0
	Sub-total				104,420		20,884		83,536
4. Canal Structures (Grade C)									
	4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	381,700	25,447	76,340	101,787	305,360
	4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	96,144	4,807	19,229	19,229	76,915
	4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
	4-4 Drop	type-Iđ	nos	80,731	0	16,146	0	64,585	0
		type-Iđđ	nos	33,170	33,170	6,634	6,634	26,536	26,536
	4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
	4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
	4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
	4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	36,849	2,457	7,370	9,826	29,479
	4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				849,020		169,804		679,216
5. Canal Structures (Grade B) : 100%									
	5-1 Intake	type-Ii	nos	333,543	333,543	66,709	66,709	266,834	266,834
		type-Iii	nos	127,233	0	25,447	0	101,787	0
	5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	192,289	4,807	38,458	19,229	153,831
	5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	186,522	9,326	37,304	37,304	149,217
	5-4 Drop	type-Iđ	nos	80,731	0	16,146	0	64,585	0
		type-Iđđ	nos	33,170	66,341	6,634	13,268	26,536	53,073
	5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
	5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
	5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
	5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
	5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				1,219,650		243,930		975,720
Total					6,543,145		1,308,629		5,234,516

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (4/16)

Urubokka

U-4 Wakamulla Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					0		0		0
2. Anicut (Grade C)									
	2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
	2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
	2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
	2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total					1,608,841		321,768		1,287,073
3. Anicut (Grade B : 50%)									
	3-1 Body		1	703,877	703,877	140,775	140,775	563,102	563,102
	3-2 Gate			140,000	0	28,000	0	112,000	0
	3-3 Revetment			104,420	0	20,884	0	83,536	0
	3-4 Spill			352,606	0	70,521	0	282,085	0
Sub-total					703,877		140,775		563,102
4. Canal Structures (Grade C)									
	4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
	4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	144,217	4,807	28,843	19,229	115,373
	4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
	4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
	4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
	4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
	4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
	4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
	4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					643,802		128,760		515,041
5. Canal Structures (Grade B) : 100%									
	5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
	5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-Iii	nos	24,036	336,505	4,807	67,301	19,229	269,204
	5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	279,783	9,326	55,957	37,304	223,826
	5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
	5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
	5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
	5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
	5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
	5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					1,119,004		223,801		895,203
Total					4,397,291		2,102,177		2,295,114

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (5/16)

U-5 Hunnakumbura Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	3,900	1,294	5,045,039	259	1,009,008	1,035	4,036,031
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				5,045,039		1,009,008		4,036,031
2. Anicut (Grade C)									
2-1	Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1	Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3	Revetment	nos		208,841	0	41,768	0	167,073	0
2-4	Spill	nos		705,212	0	141,042	0	564,170	0
	Sub-total				1,400,000		280,000		1,120,000
3. Anicut (Grade B : 50%)									
3-1	Body		1	703,877	703,877	140,775	140,775	563,102	563,102
3-2	Gate		1	140,000	140,000	28,000	28,000	112,000	112,000
3-3	Revetment			104,420	0	20,884	0	83,536	0
3-4	Spill			352,606	0	70,521	0	282,085	0
	Sub-total				843,877		168,775		675,102
4. Canal Structures (Grade C)									
4-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	96,144	4,807	19,229	19,229	76,915
4-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
4-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
4-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
4-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				562,214		112,443		449,771
5. Canal Structures (Grade B) : 100%									
5-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	168,253	4,807	33,651	19,229	134,602
5-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	186,522	9,326	37,304	37,304	149,217
5-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	181,817	12,121	36,363	48,485	145,454
5-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
5-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
5-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				775,388		155,078		620,311
Total					8,906,518		2,845,304		6,061,214

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (6/16)

U-6 Hakuruwela Aicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	9,100	1,561	14,202,678	312	2,840,536	1,249	11,362,142
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				14,202,678		2,840,536		11,362,142
2. Aicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,400,000		280,000		1,120,000
3. Aicut (Grade B : 50%)								
3-1 Body		1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate			140,000	0	28,000	0	112,000	0
3-3 Revetment		1	104,420	104,420	20,884	20,884	83,536	83,536
3-4 Spill			352,606	0	70,521	0	282,085	0
Sub-total				808,297		161,659		646,638
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	240,361	4,807	48,072	19,229	192,289
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	233,152	9,326	46,630	37,304	186,522
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				1,013,666		202,733		810,933
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	552,830	4,807	110,566	19,229	442,264
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	512,935	9,326	102,587	37,304	410,348
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	161,226	8,061	32,245	32,245	128,981
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	427,929	21,396	85,586	85,586	342,343
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	75,501	5,033	15,100	20,134	60,401
Sub-total				2,045,207		409,041		1,636,166
Total				19,749,849		5,013,970		14,735,879

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (7/16)

K-7 Andupelena Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	4,000	1,561	6,242,935	312	1,248,587	1,249	4,994,348
type-BVII	m	4,200	1,294	5,433,118	259	1,086,624	1,035	4,346,495
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				11,676,054		2,335,211		9,340,843
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,608,841		321,768		1,287,073
3. Anicut (Grade B : 50%								
3-1 Body		1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate			140,000	0	28,000	0	112,000	0
3-3 Revetment			104,420	0	20,884	0	83,536	0
3-4 Spill			352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	240,361	4,807	48,072	19,229	192,289
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				867,180		173,436		693,744
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	552,830	4,807	110,566	19,229	442,264
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	373,044	9,326	74,609	37,304	298,435
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	181,817	12,121	36,363	48,485	145,454
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	320,947	21,396	64,189	85,586	256,757
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	50,334	5,033	10,067	20,134	40,267
Sub-total				1,592,755		318,551		1,274,204
Total				16,770,474		4,576,814		12,193,661

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (8/16)

Urubokka

U-8 Ranna Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	4,300	1,561	6,711,156	312	1,342,231	1,249	5,368,924
	type-BVII	m	2,500	1,294	3,233,999	259	646,800	1,035	2,587,199
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				9,945,155		1,989,031		7,956,124
2. Anicut (Grade C)									
	2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
	2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
	2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
	2-4 Spill	nos	1	705,212	705,212	141,042	141,042	564,170	564,170
	Sub-total				2,314,053		462,811		1,851,242
3. Anicut (Grade B : 50%)									
	3-1 Body		1	703,877	703,877	140,775	140,775	563,102	563,102
	3-2 Gate			140,000	0	28,000	0	112,000	0
	3-3 Revetment			104,420	0	20,884	0	83,536	0
	3-4 Spill			352,606	0	70,521	0	282,085	0
	Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)									
	4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
	4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	216,325	4,807	43,265	19,229	173,060
	4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
	4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
	4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
	4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
	4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
	4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
	4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				923,794		184,759		739,036
5. Canal Structures (Grade B) : 100%									
	5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
	5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	528,794	4,807	105,759	19,229	423,035
	5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	233,152	9,326	46,630	37,304	186,522
	5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
	5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	303,028	12,121	60,606	48,485	242,423
	5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
	5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	320,947	21,396	64,189	85,586	256,757
	5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
	5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				1,451,395		290,279		1,161,116
Total					15,801,084		4,918,897		10,882,187
8 Anicut Total					87,359,658		23,603,563		63,756,095

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (9/16)

U-9 Udokiriwila Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m	900	63	56,726	13	11,345	50	45,381
Sub-total					56,726		11,345		45,381
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	0	333,543	0	66,709	0	266,834
		type-Iii	nos	1	127,233	127,233	25,447	25,447	101,787
2-2	Turnout	type-It	nos		36,136	0	7,227	0	28,909
		type-IIt	nos	2	24,036	48,072	4,807	9,614	19,229
2-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos	1	46,630	46,630	9,326	9,326	37,304
2-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
2-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
2-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245
2-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
2-8	Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-Ipp	nos	1	12,283	12,283	2,457	2,457	9,826
2-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos		25,167	0	5,033	0	20,134
Sub-total					475,284		95,057		380,227
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos		333,543	0	66,709	0	266,834
		type-Iii	nos		127,233	0	25,447	0	101,787
3-2	Turnout	type-It	nos		36,136	0	7,227	0	28,909
		type-IIt	nos	3	24,036	72,108	4,807	14,422	57,687
3-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos	2	46,630	93,261	9,326	18,652	74,609
3-4	Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
3-5	Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
3-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245
3-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
3-8	Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-Ipp	nos		12,283	0	2,457	0	9,826
3-9	Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos		25,167	0	5,033	0	20,134
Sub-total					406,434		81,287		325,147
Total					938,444		187,689		750,755

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokká Oya Scheme - (10/16)

U-10 High Level Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m	3,800	430	1,635,741	86	327,148	344	1,308,593
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					1,635,741		327,148		1,308,593
2. Canal Structures (Grade C)									
2-1	Intake	type-li	nos	333,543	0	66,709	0	266,834	0
		type-lII	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-lt	nos	36,136	0	7,227	0	28,909	0
		type-lIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-lr	nos	62,564	0	12,513	0	50,052	0
		type-lrr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-lf	nos	80,731	0	16,146	0	64,585	0
		type-lfd	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-lu	nos	65,198	0	13,040	0	52,159	0
		type-luu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-lw	nos	80,613	0	16,123	0	64,491	0
		type-lww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-lo	nos	206,648	0	41,330	0	165,318	0
		type-llo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-lp	nos	18,312	0	3,662	0	14,649	0
		type-lpp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-la	nos	2,906,525	0	581,305	0	2,325,220	0
		type-laa	nos	25,167	0	5,033	0	20,134	0
Sub-total					0	0	0	0	0
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-li	nos	333,543	0	66,709	0	266,834	0
		type-lII	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-lt	nos	36,136	0	7,227	0	28,909	0
		type-lIt	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-lr	nos	62,564	0	12,513	0	50,052	0
		type-lrr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-lf	nos	80,731	0	16,146	0	64,585	0
		type-lfd	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-lu	nos	65,198	0	13,040	0	52,159	0
		type-luu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-lw	nos	80,613	0	16,123	0	64,491	0
		type-lww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-lo	nos	1	206,648	206,648	41,330	41,330	165,318
		type-llo	nos	3	106,982	320,947	21,396	64,189	85,586
3-8	Parshall Flume	type-lp	nos	1	18,312	18,312	3,662	3,662	14,649
		type-lpp	nos		12,283	0	2,457	0	9,826
3-9	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220
		type-laa	nos		25,167	0	5,033	0	20,134
Sub-total					545,906		109,181		436,725
Total					2,181,647		436,329		1,745,318

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (11/16)

U-11 Pothuwewa Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m	1,800	63	113,452	13	22,690	50	90,762
	Sub-total				113,452		22,690		90,762
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-Ilt	nos	24,036	72,108	4,807	14,422	19,229	57,687
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				418,717		83,743		334,974
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-Ilt	nos	24,036	144,217	4,807	28,843	19,229	115,373
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-Ild	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				791,405		158,281		633,124
Total					1,323,574		264,715		1,058,859

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (12/16)

U-12 Ethunnawala Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m	700	63	44,120	13	8,824	50	35,296
Sub-total					44,120		8,824		35,296
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	1	24,036	4,807	4,807	19,229	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	1	46,630	46,630	9,326	37,304	37,304
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					82,950		16,590		66,360
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	2	24,036	48,072	4,807	19,229	38,458
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	1	46,630	46,630	9,326	37,304	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	33,170	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	1	60,606	60,606	12,121	48,485	48,485
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	1	40,307	40,307	8,061	32,245	32,245
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	1	106,982	106,982	21,396	85,586	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					335,768		67,154		268,614
Total					462,837		92,567		370,270

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (13/16)

U-13 Nugagaha Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m	1,700	63	107,149	13	21,430	50	85,720
Sub-total					107,149		21,430		85,720
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	48,072	4,807	9,614	19,229	38,458
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					348,051		69,610		278,440
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total					767,369		153,474		613,895
Total					1,222,569		244,514		978,055

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (14/16)

U-14 Ranasinhagama Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVII	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m	2,000	63	126,058	13	25,212	50	100,847
Sub-total					126,058		25,212		100,847
2. Canal Structures (Grade C)									
2-1	Intake	type-II	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-II	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	72,108	4,807	14,422	19,229	57,687
2-3	Regulator	type-IR	nos	62,564	0	12,513	0	50,052	0
		type-IR	nos	46,630	93,261	9,326	18,652	37,304	74,609
2-4	Drop	type-ID	nos	80,731	0	16,146	0	64,585	0
		type-ID	nos	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-IU	nos	65,198	0	13,040	0	52,159	0
		type-IU	nos	60,606	60,606	12,121	12,121	48,485	48,485
2-6	Spillway	type-IW	nos	80,613	0	16,123	0	64,491	0
		type-IW	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-IO	nos	206,648	0	41,330	0	165,318	0
		type-IO	nos	106,982	106,982	21,396	21,396	85,586	85,586
2-8	Parshall Flume	type-IP	nos	18,312	0	3,662	0	14,649	0
		type-IP	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-IA	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIA	nos	25,167	0	5,033	0	20,134	0
Sub-total					418,717		83,743		334,974
J. Canal Structures (Grade B) : 100%									
3-1	Intake	type-II	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-II	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	144,217	4,807	28,843	19,229	115,373
3-3	Regulator	type-IR	nos	62,564	0	12,513	0	50,052	0
		type-IR	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4	Drop	type-ID	nos	80,731	0	16,146	0	64,585	0
		type-ID	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-IU	nos	65,198	0	13,040	0	52,159	0
		type-IU	nos	60,606	121,211	12,121	24,242	48,485	96,969
3-6	Spillway	type-IW	nos	80,613	0	16,123	0	64,491	0
		type-IW	nos	40,307	80,613	8,061	16,123	32,245	64,491
3-7	Over Bridge	type-IO	nos	206,648	0	41,330	0	165,318	0
		type-IO	nos	106,982	213,964	21,396	42,793	85,586	171,172
3-8	Parshall Flume	type-IP	nos	18,312	0	3,662	0	14,649	0
		type-IP	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-IA	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIA	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total					791,405		158,281		633,124
Total					1,336,180		267,236		1,068,944

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (15/16)

U-15 Pattiyapola Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m	3,100	300	930,449	60	186,090	240	744,359
	type-EIV	m		63	0	13	0	50	0
	Sub-total				930,449		186,090		744,359
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	4	24,036	4,807	19,229	19,229	76,915
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIt	nos	2	46,630	9,326	18,652	37,304	74,609
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	1	60,606	12,121	12,121	48,485	48,485
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	1	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	1	106,982	21,396	21,396	85,586	85,586
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	2	12,283	2,457	4,913	9,826	19,653
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				455,036		91,007		364,029
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	9	24,036	4,807	43,265	19,229	173,060
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIt	nos	5	46,630	9,326	46,630	37,304	186,522
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	3	33,170	6,634	19,902	26,536	79,609
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	3	60,606	12,121	36,363	48,485	145,454
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	3	40,307	8,061	24,184	32,245	96,736
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	3	106,982	21,396	64,189	85,586	256,757
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	2	12,283	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	1	25,167	5,033	5,033	20,134	20,134
	Sub-total				1,197,839		239,568		958,271
Total					2,583,324		516,665		2,066,659

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (16/16)

Urubokka

U-16 Netolpitiya Tank

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	0
	type-BII	m		2,260	0	452	0	1,808	0
	type-BIII	m		2,211	0	442	0	1,769	0
	type-BIV	m		2,051	0	410	0	1,641	0
	type-BV	m		1,829	0	366	0	1,463	0
	type-BVI	m		1,416	0	283	0	1,133	0
	type-BVI	m		1,185	0	237	0	948	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m	700	300	210,101	60	42,020	240	168,081
	type-EIV	m		63	0	13	0	50	0
	Sub-total				210,101		42,020		168,081
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	24,036	4,807	4,807	19,229	19,229
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	46,630	9,326	9,326	37,304	37,304
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				108,117		21,623		86,493
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-III	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	48,072	4,807	9,614	19,229	38,458
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	60,606	12,121	12,121	48,485	48,485
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	106,982	21,396	21,396	85,586	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				335,768		67,154		268,614
Total					653,986		130,797		523,188
High Level Canal Total					10,702,562		2,140,512		8,562,050

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (1/18)

K-1 Hambumandiya Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	5,600	1,561	8,740,110	312	1,748,022	1,249	6,992,088
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				8,740,110		1,748,022		6,992,088
2. Anicut (Grade C)									
2-1	Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1	Gate	nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000
2-3	Revetment	nos		208,841	0	41,768	0	167,073	0
2-4	Spill	nos		705,212	0	141,042	0	564,170	0
	Sub-total				1,120,000		224,000		896,000
3. Anicut (Grade I: 50%)									
3-1	Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2	Gate	nos		140,000	0	28,000	0	112,000	0
3-3	Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4	Spill	nos		352,606	0	70,521	0	282,085	0
	Sub-total				808,297		161,659		646,638
4. Canal Structures (Grade C)									
4-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	4	24,036	96,144	4,807	19,229	76,915
4-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	2	46,630	93,261	9,326	18,652	74,609
4-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536
4-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
4-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	1	40,307	40,307	8,061	32,245	32,245
4-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
4-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	12,283	2,457	9,826	9,826
4-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				569,987		113,997		455,989
5. Canal Structures (Grade B) : 100%									
5-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2	Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	10	24,036	240,361	4,807	48,072	192,289
5-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	5	46,630	233,152	9,326	46,630	186,522
5-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	3	33,170	99,511	6,634	19,902	79,609
5-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	3	60,606	181,817	12,121	36,363	145,454
5-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	3	40,307	120,920	8,061	24,184	96,736
5-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	3	106,982	320,947	21,396	64,189	256,757
5-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	1	12,283	0	2,457	0	9,826
5-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	2	25,167	50,334	5,033	10,067	40,267
	Sub-total				1,247,042		249,408		997,634
Total					12,709,436		3,393,087		9,316,349

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (2/18)

K-2 Ethiptiya Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,800	1,294	2,328,479	259	465,696	1,035	1,862,783
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					2,328,479		465,696		1,862,783
2. Anicut (Grade C)									
2-1	Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1	Gate	nos	6	280,000	1,680,000	56,000	336,000	224,000	1,344,000
2-3	Revetment	nos		208,841	0	41,768	0	167,073	0
2-4	Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total					1,680,000		336,000		1,344,000
3. Anicut (Grade I: 50%)									
3-1	Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2	Gate	nos		140,000	0	28,000	0	112,000	0
3-3	Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4	Spill	nos	1	352,606	352,606	70,521	70,521	282,085	282,085
Sub-total					1,160,903		232,181		928,723
4. Canal Structures (Grade C)									
4-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Ili	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
4-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Ir	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					499,320		99,864		399,456
5. Canal Structures (Grade B) : 100%									
5-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	144,217	4,807	28,843	19,229	115,373
5-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Ir	nos	46,630	139,891	9,326	27,978	37,304	111,913
5-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total					791,405		158,281		633,124
Total					6,796,108		2,636,022		4,160,086

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (3/18)

K-3 Uda Delbarawa Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	3,400	1,294	4,398,239	259	879,648	1,035	3,518,591
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				4,398,239		879,648		3,518,591
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,120,000		224,000		896,000
3. Anicut (Grade I: 50%								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4 Spill	nos	1	352,606	352,606	70,521	70,521	282,085	282,085
Sub-total				1,160,903		232,181		928,723
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	48,072	4,807	9,614	19,229	38,458
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				475,284		95,057		380,227
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				406,434		81,287		325,147
Total				7,784,860		2,408,172		5,376,688

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (4/18)

K-4 Arachchi Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,904
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				1,034,880		206,976		827,904
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0	0	0	0	0
3. Anicut (Grade I: 50%)								
3-1 Body	nos		703,877	0	140,775	0	563,102	0
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				0	0	0	0	0
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	8	192,289	4,807	38,458	19,229	153,831
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ilr	nos	2	46,630	93,261	18,652	37,304	74,609
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	2	33,170	66,341	13,268	26,536	53,073
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Ilu	nos	2	60,606	121,211	24,242	48,485	96,969
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	2	40,307	80,613	16,123	32,245	64,491
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ilo	nos	2	106,982	213,964	42,793	85,586	171,172
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	2	12,283	24,566	4,913	9,826	19,653
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iia	nos	25,167	0	5,033	0	20,134	0
Sub-total				792,245		158,449		633,796
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	20	24,036	480,722	96,144	19,229	384,577
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ilr	nos	10	46,630	466,304	93,261	37,304	373,044
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	5	33,170	165,852	33,170	26,536	132,682
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Ilu	nos	5	60,606	303,028	60,606	48,485	242,423
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	5	40,307	201,533	40,307	32,245	161,226
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ilo	nos	5	106,982	534,911	106,982	85,586	427,929
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	2	12,283	24,566	4,913	9,826	19,653
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iia	nos	2	25,167	50,334	10,067	20,134	40,267
Sub-total				2,202,685		440,537		1,762,148
Total				4,029,810		805,962		3,223,848

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (5/18)

K-5 Wijerathne Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	1,000	1,294	1,293,600	259	258,720	1,035	1,034,880
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				1,293,600		258,720		1,034,880
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0	0	0	0	0
3. Anicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos	1	140,000	140,000	28,000	28,000	112,000	112,000
3-3 Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				948,297		189,659		758,638
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-Iii	nos	24,036	96,144	4,807	19,229	19,229	76,915
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Iid	nos	33,170	66,341	6,634	13,268	26,536	53,073
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				811,052		162,210		648,841
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-Iii	nos	24,036	168,253	4,807	33,651	19,229	134,602
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	186,522	9,326	37,304	37,304	149,217
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Iid	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				862,071		172,414		689,657
Total				3,915,020		783,004		3,132,016

K-6 Wauwa Anicut

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (6/18)

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	2,800	1,294	3,622,079	259	724,416	1,035	2,897,663
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				3,622,079		724,416		2,897,663
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,608,841		321,768		1,287,073
3. Anicut (Grade I): 50%								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-III	nos	127,233	0	25,447	0	101,787	0
4-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-III	nos	24,036	96,144	4,807	19,229	19,229	76,915
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ir	nos	46,630	93,261	9,326	18,652	37,304	74,609
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Id	nos	33,170	66,341	6,634	13,268	26,536	53,073
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iu	nos	60,606	121,211	12,121	24,242	48,485	96,969
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iw	nos	40,307	80,613	8,061	16,123	32,245	64,491
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Io	nos	106,982	213,964	21,396	42,793	85,586	171,172
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ip	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Ia	nos	25,167	0	5,033	0	20,134	0
Sub-total				696,101		139,220		556,881
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-III	nos	127,233	254,467	25,447	50,893	101,787	203,574
5-2 Turnout	type-Ii	nos	36,136	0	7,227	0	28,909	0
	type-III	nos	24,036	216,325	4,807	43,265	19,229	173,060
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ir	nos	46,630	233,152	9,326	46,630	37,304	186,522
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Id	nos	33,170	99,511	6,634	19,902	26,536	79,609
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iu	nos	60,606	181,817	12,121	36,363	48,485	145,454
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iw	nos	40,307	120,920	8,061	24,184	32,245	96,736
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Io	nos	106,982	320,947	21,396	64,189	85,586	256,757
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ip	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Ia	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				1,452,306		290,461		1,161,845
Total				8,404,972		2,903,713		5,501,259

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (7/18)

K-7 Okewela Aicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	3,000	1,294	3,880,799	259	776,160	1,035	3,104,639
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				3,880,799		776,160		3,104,639
2. Aicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos	1	705,212	705,212	141,042	141,042	564,170	564,170
Sub-total				2,034,053		406,811		1,627,242
3. Aicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	2	127,233	254,467	25,447	50,893	101,787
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	4	24,036	96,144	4,807	19,229	76,915
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	2	46,630	93,261	9,326	18,652	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	2	33,170	66,341	6,634	13,268	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	2	60,606	121,211	12,121	24,242	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	2	40,307	80,613	8,061	16,123	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	2	106,982	213,964	21,396	42,793	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	2	12,283	24,566	2,457	4,913	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				950,568		190,114		760,454
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	2	127,233	254,467	25,447	50,893	101,787
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	10	24,036	240,361	4,807	48,072	192,289
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	6	46,630	279,783	9,326	55,957	37,304
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	4	33,170	132,682	6,634	26,536	106,145
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	4	60,606	242,423	12,121	48,485	193,938
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	4	40,307	161,226	8,061	32,245	128,981
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	4	106,982	427,929	21,396	85,586	342,343
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	2	12,283	24,566	2,457	4,913	9,826
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	1	25,167	25,167	5,033	20,134	20,134
Sub-total				1,509,570		301,914		1,207,656
Total				9,485,678		3,443,016		6,042,662

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (8/18)

K-8 Pansala Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	1,800	1,294	2,328,479	259	465,696	1,035	1,862,783
	type-El	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				2,328,479		465,696		1,862,783
2. Anicut (Grade C)									
2-1	Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1	Gate	nos		280,000	0	56,000	0	224,000	0
2-3	Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4	Spill	nos		705,212	0	141,042	0	564,170	0
	Sub-total				208,841		41,768		167,073
3. Anicut (Grade I: 50%)									
3-1	Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2	Gate	nos	2	140,000	280,000	28,000	56,000	112,000	224,000
3-3	Revetment	nos		104,420	0	20,884	0	83,536	0
3-4	Spill	nos		352,606	0	70,521	0	282,085	0
	Sub-total				983,877		196,775		787,102
4. Canal Structures (Grade C)									
4-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
4-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				638,837		127,767		511,069
5. Canal Structures (Grade B) : 100%									
5-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
5-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
5-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				742,202		148,440		593,761
Total					4,944,003		1,147,520		3,796,484

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (9/18)

K-9 Pattiyawela Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	4,100	1,294	5,303,758	259	1,060,752	1,035	4,243,007
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					5,303,758		1,060,752		4,243,007
2. Anicut (Grade C)									
2-1	Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1	Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3	Revetment	nos		208,841	0	41,768	0	167,073	0
2-4	Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total					1,400,000		280,000		1,120,000
3. Anicut (Grade I: 50%)									
3-1	Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2	Gate	nos		140,000	0	28,000	0	112,000	0
3-3	Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4	Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total					808,297		161,659		646,638
4. Canal Structures (Grade C)									
4-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
4-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
4-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
4-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
4-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
4-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
4-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					894,001		178,800		715,201
5. Canal Structures (Grade B) : 100%									
5-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
5-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	288,433	4,807	57,687	19,229	230,746
5-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	279,783	9,326	55,957	37,304	223,826
5-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	99,511	6,634	19,902	26,536	79,609
5-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	181,817	12,121	36,363	48,485	145,454
5-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	120,920	8,061	24,184	32,245	96,736
5-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	320,947	21,396	64,189	85,586	256,757
5-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	50,334	5,033	10,067	20,134	40,267
Sub-total					1,468,978		293,796		1,175,183
Total					10,155,035		3,095,007		7,060,028

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (10/18)

K-10 Unnasege Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	1,900	1,294	2,457,839	259	491,568	1,035	1,966,271
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				2,457,839		491,568		1,966,271
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,120,000		224,000		896,000
3. Anicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ir	nos	46,630	93,261	9,326	18,652	37,304	74,609
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iw	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Io	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ip	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Ia	nos	25,167	0	5,033	0	20,134	0
Sub-total				545,951		109,190		436,760
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	144,217	4,807	28,843	19,229	115,373
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Ir	nos	46,630	139,891	9,326	27,978	37,304	111,913
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iw	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Io	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ip	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Ia	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				791,405		158,281		633,124
Total				5,843,072		2,019,814		3,823,257

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (11/18)

K-11 Kahawatta Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				0		0		0
2. Anicut (Grade C)									
	2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
	2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
	2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
	2-4 Spill	nos		705,212	0	141,042	0	564,170	0
	Sub-total				1,608,841		321,768		1,287,073
3. Anicut (Grade I) : 50%									
	3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
	3-2 Gate	nos		140,000	0	28,000	0	112,000	0
	3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
	3-4 Spill	nos		352,606	0	70,521	0	282,085	0
	Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)									
	4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
	4-2 Turnout	type-IIt	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	72,108	4,807	14,422	19,229	57,687
	4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
	4-4 Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
	4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
	4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
	4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
	4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
	4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				545,951		109,190		436,760
5. Canal Structures (Grade B) : 100%									
	5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
	5-2 Turnout	type-IIt	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	144,217	4,807	28,843	19,229	115,373
	5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
	5-4 Drop	type-IId	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
	5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
	5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
	5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
	5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
	5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total				791,405		158,281		633,124
Total					3,971,841		2,017,087		1,954,754

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (12/18)

Kirama

K-12 Pinoda Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,904
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				1,034,880		206,976		827,904
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				208,841		41,768		167,073
3. Anicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos	2	140,000	280,000	28,000	56,000	112,000	224,000
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				983,877		196,775		787,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	24,036	4,807	4,807	19,229	19,229
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Ilu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				590,764		118,153		472,612
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	72,108	4,807	14,422	19,229	57,687
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Ilu	nos	60,606	60,606	12,121	12,121	48,485	48,485
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				406,434		81,287		325,147
Total				3,266,564		812,032		2,454,532

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (13/18)

K-13 Llyangedeniya Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	1,500	1,561	2,341,101	312	468,220	1,249	1,872,881
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				2,341,101		468,220		1,872,881
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,328,841		265,768		1,063,073
3. Anicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	48,072	4,807	9,614	19,229	38,458
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				602,517		120,503		482,014
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	120,180	4,807	24,036	19,229	96,144
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				742,202		148,440		593,761
Total				5,984,306		2,206,780		3,777,526

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (14/18)

K-14 Nalagama Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	4,000	1,561	6,242,935	312	1,248,587	1,249	4,994,348
type-BVII	m		1,294	0	259	0	1,035	0
type-BI	m		430	0	86	0	344	0
type-BII	m		349	0	70	0	280	0
type-BIII	m		300	0	60	0	240	0
type-BIV	m		63	0	13	0	50	0
Sub-total				6,242,935		1,248,587		4,994,348
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
2-3 Revetment	nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				1,608,841		321,768		1,287,073
3. Anicut (Grade I: 50%)								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				703,877		140,775		563,102
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	254,467	25,447	50,893	101,787	203,574
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	144,217	4,807	28,843	19,229	115,373
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	186,522	9,326	37,304	37,304	149,217
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	66,341	6,634	13,268	26,536	53,073
4-5 Under Crossing	type-lu	nos	65,198	0	13,040	0	52,159	0
	type-luu	nos	60,606	121,211	12,121	24,242	48,485	96,969
4-6 Spillway	type-lw	nos	80,613	0	16,123	0	64,491	0
	type-lww	nos	40,307	80,613	8,061	16,123	32,245	64,491
4-7 Over Bridge	type-lo	nos	206,648	0	41,330	0	165,318	0
	type-llo	nos	106,982	213,964	21,396	42,793	85,586	171,172
4-8 Parshall Flume	type-lp	nos	18,312	0	3,662	0	14,649	0
	type-lpp	nos	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-la	nos	2,906,525	0	581,305	0	2,325,220	0
	type-laa	nos	25,167	0	5,033	0	20,134	0
Sub-total				1,091,901		218,380		873,521
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-Ilt	nos	24,036	312,469	4,807	62,494	19,229	249,975
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	326,413	9,326	65,283	37,304	261,131
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-Ild	nos	33,170	132,682	6,634	26,536	26,536	106,145
5-5 Under Crossing	type-lu	nos	65,198	0	13,040	0	52,159	0
	type-luu	nos	60,606	242,423	12,121	48,485	48,485	193,938
5-6 Spillway	type-lw	nos	80,613	0	16,123	0	64,491	0
	type-lww	nos	40,307	161,226	8,061	32,245	32,245	128,981
5-7 Over Bridge	type-lo	nos	206,648	0	41,330	0	165,318	0
	type-llo	nos	106,982	427,929	21,396	85,586	85,586	342,343
5-8 Parshall Flume	type-lp	nos	18,312	0	3,662	0	14,649	0
	type-lpp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-la	nos	2,906,525	0	581,305	0	2,325,220	0
	type-laa	nos	25,167	50,334	5,033	10,067	20,134	40,267
Sub-total				1,653,476		330,695		1,322,781
Total				11,622,799		3,547,279		8,075,520