ANNEX-4 FARMER ORGANIZATIONS

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App.4 Meetings with Project Managers (INMAS) and Leaders of Farmer Organizaitns 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 majour irrigation systems in Polonnaruwa, wiz Parakrama Samudra, Minneriya and Giritale and with the Chairman / Secretary of the Distributory Canal level Organizations (DCO.) in Girital eand 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 - SLPO) 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 activates 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 I 1th (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.

- (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.

<u>Financial Management:</u> 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 were 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 by 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 Giritale, 85-90 in Minneriya and about 100 in Parakrama Samudra this season. Giritale 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 advise

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 IXXX	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	Chaiman	240
9. L.G. Gnanawathie Menike	I.M.D.	Institutional Organizer	
10. Anura Dayaratne	I.M.D.	1.0.	
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	lMD	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. Ulpáthwewa	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	193	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
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^{*} 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 Bauddharthagma	600	98	69
7. Thambala Alhillalpura	560	162	87
*8. Somapura Abhayapura	708	162	178
*9. Kegalugama	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
	13,360.00

Farmer B

5. Fertilizer 6. Agro-chemicals			•	2,575.00 2,350.00
6. Agro-chemicals 7. Harvesting	-			2,350.00 2,750.00
				13,800.00

ANNEX-5 FACILITY DESIGN & COST ESTIMATION

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	Construciton Cost of Liyangastota Scheme (1/11~11/11) A5-	
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	Cost Breakdown of Canal Works (1/3~3/3)	
	Cost Breakdown of Canal Structures (1/8~8/8)	
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App.5.5-1	Typical Cross Section of Irrigation Canals	04

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

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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	F/C	L
					(%)	(%)	(Rs.)	(Rs.)	(Rs
1. Clearing & Grubbing	Common jungi	le		ha	20	80	19,054.67	3,810.93	15,243.7
	Light jungle		Machinery	ha	20	80	10,512.15	2,102.43	8,409.7
			Manual	ha	20	80	10,512.15	2,102.43	8,409.7
2. Land Levelling				ha	20	80	2,778.80	555.76	2,223.0
3. Excavation	Common	L≈1/4 mile	Machinery	m3	20	80	74.46	14.89	59.5
	Common	L= {/4 mile	Manual	m3 °	20	80	128,45	25.69	102.7
	Rock	L=1 mile	Machinery	m3	20	80	248.11	49.62	198.4
÷ .	Rock	L=t mile	Manual	- m3	20	80	345,89	69.18	276.7
4. Earthfilling	in dam	L=1 mile		m3	20	80	115.31	23.06	92.2
incl.Compaction	in canal	L=t/4 mile		m3 ·	20	80	60,25	12.05	48.2
5. Stope Protection	Turting	L=t mile	Manual	m2	20	80	17.09	3.42	13.6
	Rubble	6~9"	÷	m3	20	80	472.48	94.50	377.9
6. Concrete	1:4.8(1.1/2")			m3	20	80	2,114.77	422.95	1,691.8
	1:3:6(1.1/2")			m3	20	80	2,357.97	471.59	1,886.3
2. D. J. C	1:2:4(1.1/2")			m3	20	80	2,709.01	541.80	2,167.2
7. Reinforcement	. Tor			kg ka	20	80	44.37	8.87	35.4
8. Formwork	Mild		•	kg m2	20 20	80 80	41.17 209.97	8.23 41.99	32.9
9. Rubble Masonry	3 uses			m3	20	80	1,519.97	303.99	167.9 1,215.9
10. Plastering	1:3 (1/2")	:		nı2	20	80	66.71	13.34	53.3
11. Canal Lining	1.5(1)(2.)	1.		1112	20	80	00.71	13.34	
Precast	2" thick			m2		80	144.69	28.94	115.7
	4" thick			m2		80	289.39	57.88	231.5
Concrete incl.form				m2	20	80	194.00	38.80	155.2
Brick				m3	20	80	1,509.02	301.80	1,207.2
Rubble	9" thick			m2	20	80	346.30	69.26	277.0
12. Gates for Turnout	D=9"			each	20	80	4,279.50	855.90	3,423.6
incl.Hoist	D=12"	1	1	each	20	80	4,946.20	989.24	3,956.9
	D=15"			each	20	80	7,877.20	1,575.44	6,301.7
	D=18 ^a			each	20	80	11,195.20	2,239.04	8,956.1
	D=24"			each	20	80	15,455.82	3,091.16	12,364.6
	D=30"		1.1 · · · · · · · · · · · · · · · · · ·	each	20	80	19,427.82	3,885.56	
Steel Gate for Anicut			•	each	20	80	280,000.00	56,000.00	224,000.0
13. Wooden Gates for Re	- :	oist			20	80			:
	3'x3.25'		Manuai	each	20	80	310.00	62.00	248.0
	4'x4'		Manual	each	20	80	510.00	102.00	408.0
	4'x5', 4.5'x4.5		Manuat	each		80	700.00	140.00	560.0
	5'x4.75'	-	Manual .	each	20	80	800.00	160.00	640.0
14. BCC Bios institution isi	5.75'x5.5'		Manual	each	20	80	900.00	180.00	720.0
14. RCC Pipe incl.lay, joi	nis, inning D=6"			1	20	80	420.60	0.00	0.0
	D=9"		Manual Manual	m	20 20	80 80	438.68	87.74	350.9
	D=13		Manual Manual	. m m	20	80	560,93 709,68	112.19 141.94	448.1 549.1
	D=15"		Manual	m	20	80	886.61	177.32	567.7 709.7
	D=18"		Manual	m	20	80	1,177.59	235.52	942.0
11 11 11 11 11	D=13 D=24"		Manual	m	20	80	1,502.26	300.45	1,201.8
	D=30"		Manual	m	20	80	2,499.25	499.85	1,999.4
	Riprap	D±6~9"	Machinery		20	80	472.48	94.50	377.9
15. Filter for dam	D=1.5"	L=1 mile	,	т13	20	80	569.31	113.86	455.4
16. Roadway wearing Sur		L=1 mile		m3	20	80	151.38	30.28	121.1
17. Bridge Deck	.0 -7				20	80		0.00	0.0
Precast	L=35'		Machinery	each	20	80	22,131.90	4,426.38	17,705.5
	L=20'	:	Machinery		20		15,648.71	3,129.74	12,518.9
	L=[1'		Muchinery		20	80	A second	1,598.69	6,394.7
Handrail				m	20	80	1,472.00	294.40	1,177,6
18. Pap Gate	each structu	n)		each	20		2,700,000.00		

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

	Construction Works Main Structure			Hall deles		11mb entry			
2. 3.	Main Structure			Unit price	Amount	Unit price	Amount	Unit price	Amount
3.				0	0		0		0
-	RB Intake			0	0		0		6
	LB Intake			0	0		0		0
	Total			20,880,000	20,880,000	4176000	4,176,000	16,704,000	16,704,000
W 2	Walawe RB Main Cana								
	Caustanation Works	Unit	Quantity	Total Co		Forein Curi	•	Local Curi Unit price	•
	Construction Works Canal Works			Unit price	Amount	Unit price	Amount	Cun pice	Amount
ł.	type-BI		14,500	3,607	52,294,774	771	10,458,955	2 885	41,835,820
		m	14,500	2,984	0	597	10,430,233	2,388	41,035,020
	type-Bit	m	1,600	2,754	4,406,374	551	881,275	2,203	3,525,099
	type-Biff	m	1,000		0	483	0	1,931	0,020,090
	type-BIV	m		2,413	0	402	0	1,603	Ò
	type-BV	m	2 200	2,010					2,746,892
	type-BVI	m	2,200	1,561	3,433,614	312	686,723	1,249	
	type BVI		3,900	1,294	5,045,039	259	1,009,008	1,035	4,036,031
	type-El	D)	6,900	430	2,970,162	86	594,032	344	2,376,130
	type Ell	m		349	0	70	0	280	, (
	type-EIII	1113		300	. 0	60	0	240	
	type-EiV	m		63.	0	13		50	- () - 5 Å 5 10 ÓZ1
	Sub-total (G				68,149,963		13,629,993		54,519,971
	Canal Structures (Grad			222 - 12	_	££ 500	_	266.024	
2-I	Intake type-li	nos		333,543	0	66,709	0	266,834	
	type-Ili	nos		127,233	. 0	25,447	0	101,787	(
2-2	Turnout type-lt	nos		36,136	0	7,227	0	28,909	207.660
	type-llt	nos	16	24,036	384,577	4,807	76,915	19,229	307,662
2-3	Regulator type-lr	nos		62,564	0	12,513	0	50,052	0
	type-llr	nos		46,630	0	9,326	0	37,304	0
2-4	Drop type-ld	nos		80,731	0	16,146	0	64,585	
	type-IId	nos		33,170	0	6,634	o	26,536	9
2-5	Under Crossin; type-Iu	bos		65,198	0	13,040	0	52,159	. 0
	type-llu	1002		60,606	- i O	12,121	0	48,485	9
2-6	Spillway type-lw	nos		80,613	0	16,123	0	64,491	Ç
	type llw	nos		40,307	0	8,061	0	32,245	•
2-7	Over Bridge type-lo	nos		206,648	0	41,330	0	165,318	(
	type-llo	nos		106,982	0	21,396	0	85,586	(
2-8	Parshall Flume type-Ip	nos	١.	18,312	18,312	3,662	3,662	14,649	14,649
i	type-llp	nos		12,283	0,	2,457	0	9,826	(
2-9	Aqueduct type-la	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	17		402,889		80,578		322,311
3.	Canal Structures (Grad		: 100%	1	1.12				
3-1	Intake type-li	nos		333,543	0	66,709	0	266,834	(
	type-lli	nos		127,233	0	25,447	0	101,787	· (
3.2	Turnout type-It	nos		36,136	0	7,227	0	28,909	422.024
	type-lit	nos	22	24,036	528,794	4,807	105,759	19,229	423,035
3.3	Regulator type-lr	nos	1	62,564	62,564	12,513	12,513	50,052	50,057
	type-llr	nos	1	46,630	46,630	9,326	9,326	37,304	37,30
3-4	Drop type-ld	nos		80,731	0	16,146	0	64,585	(
	type-lid	nos		33,170	. 0	6,634	0	26,536	(
3.5	Under Crossin; type-lu	nos		65,198	0	13,040	0	52,159	9
	type-llu	nos		60,606	0	12,121	0	48,485	(
3 6	Spillway type-lw	nos	l	80,613	80,613	16,123	16,123	64,491	64,491
	type-llw	nos	ı	40,307	40,307	8.061	8,061	32,245	32,24
3.7	Over Bridge type-lo	nos		206,648	0	41,330	0	165,318	
	type-llo	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-llp	nos		12,283	0	2,457	•	9,826	(
3-9	Aqueduct type-la	поѕ		2,906,525	0	581,305	0	2,325,220	. (
	type-lla	nos		25,167	0	5,033	0	20,134	(
	Sub-total				758,909		151,782		607,127
4.	Small Tank								
	Mandagala Tank	nos	t t	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	
	Sub-total		28		1,875,000		375,000		1,500,000
					71,186,761		14,237,352		56,949,409

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

		Unit	Quantity	Total Co	st (Rs)	Forein Curr	ency (Rs)	Local Curr	incy (Rs)
Construction V	Vorks			Unit price	Amount	Unit price	Amount	Unit price	Amou
Canal Works			•						·
	type-BI	m		3,697	0	721	0	2,885	
	type-BII	m		2,984	0	597	0	2,388	
	type-BIII	63	1,400	2,754	3,855,577	551	771,115	2,203	3,084,40
	type-BIV	m		2,413	. 0	483	0	1,931	
	type-BV	m		2,010	0	402	0	1,608	
	type-BVI	m	1,700	1,561	2,653,248	312	530,650	1,249	2,122,5
	type-BVII	o		1,294	0	259	. 0	1,035	
	type-El	m		430	0	86	0	344	
	type-Elf	m		349	0	70	0	280	
	type-EIII	m		300	.0	- 60	0	240	
	type-EIV	m		63	0	13	0	50	
Sub-total					6,508,825		1,301,765		5,207,0
Canal Structu		· C)		:					
1 Intake	type-li	nos		333,543	0 -	66,709	0	266,834	
· imuse	type-lli	nos		127,233	0	25,447	0	101,787	
2 Turnout	type-It	nos	2	36,136	72,272	7,227	14,454	28,909	57,8
2 10111001	type-llt	nos	15	24,036	360,541	4,807	72,108	19,229	288,4
3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	3.0,
2 INEROISON	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,6
4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	
4 Drop	type-lid	nos	. 2	33,170	66,341	6,634	13,268	26,536	53,0
5 Under Crossin	• •	nos	-	65,198	0	13,040	0	52,159	
5 Choca Clossin	type-Ilu	nos		60,606	Ď.	12,121	ŏ	48,485	
6 Spillway	type-lw	nos		80,613	Ŏ	16,123	o.	64,491	
O Spinway	* -	nos	2	40,307	80,613	8,061	16,123	32,245	64,4
-7 Over Bridge	type-llw	nos	-	206,648	00,013	41,330	0	165,318	٠,
Over bridge	type-fo	nos	. 2	106,982	213,964	21,396	42.793	85,586	171,
-8 Parshall Fluis	type-llo		1	18,312	18,312	3,662	3,662	14,649	14,6
-6 Parshall Fluits		ภอร	•	12,283	0	2,457	.,.002	9,826	• • •
0. 4	type-llp	nos		2,906,525	ŏ	581,305	ŏ	2,325,220	
9 Aqueduct	type-la	nos		25,167	ő	5,033	. 0	20,134	
C. b. c. a.	type-Ita	nos	26	23,107	905,305	3,033	181.061	20,134	724,3
Sub-total		. D\	26		905,505		101,001		12.4,
. Canal Structi	/		: 100%	333,543	333,543	66,709	66,709	266,834	266,8
-1 Intake	type-li	nos		127,233	333,343	25,447	00,703	101,787	2000
A Turner	type-lli	nos		4 4 2 2	36,136		7,227	28,909	28,9
-2 Turnout	type-It	nos	1 28	36,136 24,036	673,010	7,227 4,807	134,602	19.229	538,
2 Damilain	type-llt	nos	20	62,564	0	12,513	1.14,002	50,052	330,
-3 Regulator	type-lr	nos		. 2	0	9,326	0	37,304	•
4 Dran	type-llr	nos	:	46,630	0	16,146	0	64,585	
-4 Drop	type ld	nos	÷	80,731	0	4 4		26,536	1
C 11-11-0-1	type-Ild	nos		33,170		6,634	0		
 -5 Under Crossin 		nos		65,198 40.606	4	13,040	. 0	52,159	
Z 0-19	type Hu	nos		60,606	0	12,121		48,485	
-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	
-0	type-IIw	nos		40,307	0	8,061		32,245	
-7 Over Bridge		nos		206,648	0	41,330	0	165,318	
0.5 1.35	type-llo	nos	-	106,982	0	21,396	0	85,586	
-8 Parshall Flum		1102		18,312	0	3,662	0	14,649	
	type-llp	nos	•	12,283	0	2,457	. 0	9,826	
-9 Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	
	type-lla	nos		25,167	0	5,033	0 000 500	20,134	03.5
Sub tota	<u> </u>		30		1,042,689		208,538	-	834,

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

		Unit	Quantity	Total Cos	1 (17/2)	Forein Curren	.3 ()	Local Currer	A
Construction \	Vorks		•	Unit price	Amount	Unit price	Amount	Unit price	Amour
Canal Works							_		
	type-BI	វារ		3,607	0	721	0	2,885	•
	type-BH	កា		2,984	0	597	0	2,388	!
	type-Bill	m		2,754	0	551	0	2,203	
	type-BIV	· m		2,413	0	483	0	1,931	
	type-BV	m		2,010	0	402	0	1.608	
	type BVI	m		1,561	0	312	0	1,249	
	type-BVII		1,100	1,294	1,422,960	259	284,592	1,035	1,138,36
	type-El	m	·	430	0	86	0	344	
	type-Ell	m		349	0	70	. 0	280	
	type EIII	m		300	0	60	0	240	
	type-EIV	m		63	0	13	0	50	
Sub-tota		• • • • • • • • • • • • • • • • • • • •	;		1,422,960		284,592		1,138,30
그는 사건 보기 기가		i Ci					1		
	type-li	nos		333,543	0	66,709	0	266,834	
1 Intake	type-lli	nos		127,233	Ō	25,447	0	101,787	
O Tomasus		nos	2	36,136	72,272	7,227	14,454	28,909	57,8
2 Turnout	type-It		6	24,036	144,217	4,807	28,843	19,229	115,3
A. B 1	type-lit	005	U	62,564	0	12,513	0	50,052	
-3 Regulator	type-fr	กอร	2	46,630	93,261	9,326	18,652	37,304	74,6
4.5	type-llr	nos	2	80,731	0	16,146	0	64,585	
4 Drop	type-Id	nos	2	33,170	66,341	6,634	13,268	26,536	53,0
	type-lld	nos	. 2	65,198	0	13,040	0	52,159	•
 5 Under Crossi 		nos		60,606	ŏ	12,121	Ŏ	48,485	
	type-IIu	nos		80,613	ŏ	16,123	. 0	64,491	
-6 Spillway	type-lw	nos	2		80,613	8,061	16,123	32,245	64.4
	type liw	nos	Z	40,307	0	41,330	0	165,318	
-7 Over Bridge	type Io	nos	•	206,648	213,964	21,396	42,793	85,586	171,1
	type-llo	nos	2	106,982	18,312	3,662	3,662	14,649	14,6
-8 Parshail Flun	* *	nos	1	18,312	10,312	2,457	0	9,826	
	type-lip	nos		12,283	0	581.305	0	2,325,220	
-9 Aqueduct	type-la	nos		2,906,525	0		. O.	20,134	
	type lla	nos		25,167	•	5,033	137,796	20,151	551,1
Sub-tota			17		688,980	, i i	137,190	•	331,1
. Canal Struc				433.543	^	66,709	. 0	266,834	
-1 Intake	type-li	nos		333,543	0	25,447	25,447	101,787	101,
	type-Ili	nos		127,233	127,233	7,227	23,447	28,909	107,
t-2 Turnout	type-lt	nos		36,136	0	1 -	Ŏ.	19,229	
rafe to a visit	type-lit	nos	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24,036	0	4,807	Ŏ	50,052	
3-3 Regulator	type-li	nos		62,564	0	12,513	0	37,304	
	type-llr	nos		46,630	0	9,326	0	64,585	
I-4 Drop	type-ld	nos		80,731	0	16,146	0	26,536	
	type-lid	nos		33,170	0	6,634	. 0	52,159	
1-5 Under Cross		nos		65,198	0	13,040	. 0	48,485	
	type-llu	nos	•	60,606	0	12,121		64,491	•
I-6 Spillway	type-Iw	nos		80,613	0	16,123	0		
	type-liw	nos	i	40,307	0	8,061	0	32,245	
3-7 Over Bridge	type-lo	nos	;	206,648	0	41,330	. 0	165,318	
	type-llo	nos	;	106,982	: 0	21,396	0	85,586	
3-8 Parshall Flux	ne type-lp	008		18,312	.0	3,662	0	14,649	
	type-lip	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	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	type-llá	nos		25,167	0	5,033	0	20,134	
			1		127,233		25,447	·	101,
Sub-tot	41								

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

			Unit	Quantity	Total Co	ost (Rs)	Forein Curr	ency (Rs)	Local Cur	rency (Rs)
	Construction !				Unit price	Amount	Unit price	Amount	Unit price	Amoun
J.	Canal Works								·	
		type-BI	m		3,607	0	721	0	2,885	(
		type-BII	m		2,984	0	597	. 0	2,388	(
		type-BIII	m	5,600	2,754	15,422,308	551	3,084,462	2,203	12,337,847
		type-BIV	m		2,413	O	483	0	1,931	(
		type-BV	m		2,010	0	402	0	1,608	(
		type-BVI	: m	5,300	1,561	8,271,889	312	1,654,378	1,249	6,617,512
		type-BVII	l m	1,300	1,294	1,631,680	259	336,336	1,035	1,345,34
		type-E1	m		430	0	86	0	344	* par *ar par *
		type-EII	m		349	ō	70	0	280	
	÷	type-EIII	m		300	0	60	ŏ	240	
	100	type EIV	m		63	Ŏ	13	ŏ	50	
	Sub-total	* *				25,375,877		5,075,175	30	20,300,70
	Canal Structu		e Ci			20,270,077		5/015/11/2		20,,,00,70,
	Intake	type-li	nos		333,543	. 0	66,709	0	266,834	1
•		type-lli	nos		127,233	0	25,447	0	101,787	{
.)	Turnout	type-li	nos	5	36,136	180,681	7,227	36,136	28,909	
٠	20711301	type-lit	nos	39		937,407	4,807	187,481	19,229	144,545
. 3	Regulator	type-fr	nos		62,564	937,407	12,513	· _		749,92
.,		type-lir	nos	1	46,630	46,630	9,326	0 308 0	50,052	27.20
.4	Drop	type-ld	nos	•	80,731	40,030		9,326	37,304	37,30
7	Piop	type-lid	nos	3	33,170	99,511	16,146 6,634	0 19,902	64,585	70.60
_ 5	Under Crossin	type-nu teor lo	nos		65,198	99,511			26,536	79,60
•	Onoci Crossiii	type-Hu	nos		60,606	0	13,040	0	52,159	
-6	Spillway	type-nu type-lw			80,613		12,121	0	48,485	
v	Opinway		nos			0	16,123	0	64,491	
7	Over Bridge	type-liw	nos		40,307 206,648		8,061	0	32,245	
- 5	Over Bridge	type-lo type-llo	nos	,		0	41,330	0	165,318	
é	Parshall Flum		nos	2	106,982	213,964	21,396	42,793	85,586	171,17
. 0	1 015trait (tons	type-lip	nos nos	•	18,312 12,283	18,312 0	3,662	3,662	14,649	14,64
۵.	Aqueduct				2,906,525	0	2,457	0	9,826	` (
-	Aqueuve	type-la	nos			0	581,305	0	2,325,220	(
	Sub-total	type-lla	nos	51	25,167		5,033	0	20,134	1.107.50
	Canal Structi		, Dì	1		1,496,506		299,301		1,197,20
	Intake				227 642	^	24 700			
-,	IHLANC	type-li	nos		333,543	0	66,709	0	266,834	; (
2	Turnout	type-Ili	nos		127,233	0	25,447	0	101,787	: 1
- 4	rumout	type-It	nos		36,136	0	7,227	0 :	28,909	
,	Pagulatas	type-lit	nos		24,036	0	4,807	0	19,229	
• •	Regulator	type-lr	nos		62,564	0	12,513	0	50,052	
	Drop	type llr	nos		46,630	0	9,326	0	37,304	
, 4	Otop	type ld	nos		80,731	0	16,146	0	64,585	
٠.	Under Crossin	type-IId	nos		33,170	0	6,634	0	26,536	
-)			nos		65,198	0	13,040	0	52,159	
		type-llu	nos		60,606	0	12,121	0	48,485	
-0	Spillway	type Iw	nos		80,613	. 0	16,123	0	64,491	
2	Otton Builder	type-llw	DOS		40,307	0	8,061	0	32,245	. (
. ,	Over Bridge		nos		206,648	0	41,330	0	165,318	l
_		type llo	nos		106,982	0	21,396	. 0	85,586	. (
-8	Parshall Flume		nos		18,312	0	3,662	0	14,649	1
_		type-llp	nos		12,283	0	2,457	,0	9,826	. (
У,	Aqueduct	type-la	DOS	. !	2,906,525	0	581,305	0	2,325,220	(
		type-lla	005		25,167	0	5,033	0	20,134	
	Sub-total			0		0		0		(
• 1	Small Tanks									
17	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		

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

		Unit	Quantity	Total Co	st (Rs)	Forein Curr	ency (Rs)	Local Curre	ency (Rs)
Construction	Works:			Unit price	Amount	Unit price	Amount	Unit price	Ansou
Canal Worl									
	type-BI	m	3,000	3,607	10,819,609	721	2,163,922	2,885	8,655,68
	type-BH	m		2,984	0	597	0	2,388	
	type-BIII	m		2,754	0	551	0	2,203	
	type BIV	m		2,413	0	483	0	1,931	
	type-BV	m		2,010	0	402	0	1,608	
				1,561	ő	312	Õ	1,249	
	type-BVI	m		1,294	0	259	ō	1,035	
	type-BVII	m	4,000	430	1,721,833	86	344,367	344	1,377,4
	type-El	m	4,000	430 349	0	70	0	280	1307674
	type-EII	m			-	60	0	240	
	type-EIII	m		300	0			50	
	type EIV	m		63	0	13	2.500.200	30	100221
Sub-to	the second of the second				12,541,442		2,508,288		10,033,1
Canal Strue	ctures (Grade	e C)							c22.6
1 Intake	type-Ii	nos	2	333,543	667,085	66,709	133,417	266,834	533,6
	type-lli	nos	,	127,233	0	25,447	0	101,787	:
2 Turnout	type-lt	nos		36,136	0	7,227	0	28,909	
	type-lit	nos		24,036	0	4,807	0	19,229	
3 Regulator	type-ir	nos		62,564	0	12,513	0	50,052	
	type-IIr	pos		46,630	0	9,326	0	37,304	
4 Drop	type-ld	nos		80,731	0	16,146	0	64,585	
	type-lld	nos		33,170	0	6,634	0	26,536	
5 Under Cross		nos		65,198	. 0	13,040	0	52,159	
5 Onoci Cios	type-liu	nos		60,606	0	12,121	0	48,485	
6 Spittway	type-lw	nos	2	80,613	161,226	16,123	32,245	64,491	128,9
o opinway	type-IIw	nos	L	40,307	0	8,061	0	32,245	
-7 Over Bridge	· ·	nos	3	206,648	619,943	41,330	123,989	165,318	495,9
. Otti bildge		nos	•*	106,982	0	21,396	0	85,586	
8 Parshall Flu	type-llo matyos-lo	กอร	2	18.312	36,624	3,662	7,325	14,649	29,2
o raisnan riu			. 2	12,283	0	2,457	0	9,826	,
0 A a	type-lip	nos		2,906,525	0	581,305	ő	2,325,220	
9 Aqueduct	type-Ia	nos			ő	5,033	Ö	20,134	
	type-lla	nos	9	25,167	1,484,878		296,976	2091.71	1,187,9
Sub-to			· · ·		1,404,010	+	270,710		1,107,2
	ctures (Grad		: 100%	212 542	¹ o	66 700	. 0	266,834	!
-1 Intake	type-Ii	nos		333,543		66,709	0	101,787	
	type-Ili	ncs		127,233	0	25,447	0	28,909	111
2 Turnout	type-lt	nos		36,136	0	7,227			
	type-llt	nos		24,036	0	4,807	0	19,229	: :
-3 Régulator	type-fr	nos		62,564	0	12,513	0	50,052	. :
	type-Hr	nos	,	46,630	0	9,326	0	37,304	
4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	i .
	type-IId	nos		33,170	0	6,634	0	26,536	- :
-5 Under Cros		nos		65,193	0	13,040	0	52,159	
	type-Hu	nos		60,606	. 0	12,121	0	48,485	
-6 Spillway	type-lw	nos		80,613	0	16,123	0	64,491	!
	type-llw	ากดร		40,307	0.	8,061	0	32,245	
-7 Over Bridg	- •	nos	;	206,648	206,648	41,330	41,330	165,318	165,
C	type-llo	nos		106,982	0	21,396	0	85,586	
-8 Parshall Flo		nos		18,312	0	3,662	0	14,649	£
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	type-llp	nos		12,283	0.	2,457	0	9,826	
9 Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	: '
; requeduct	type-Ha	nos	•	25,167	Ŏ	5,033	0	20,134	
Sub-to		1203	1	20,1.07	206,648		41,330		165,
340-8			 -					· · · · · · · · · · · · · · · · · · ·	
					14,232,967		2,846,593		11,386,

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

W.	7 Ridiyagama Tank				<u> </u>				
		Unit	Quantity	Total Co		Forein Cuns		Local Curre	
	Construction Works			Unit price	Amount ·	Unit price	Amount	Unit price	Amount 0
I.	Main Structure	LS		0	0		0		0
2.	RB Intake	LS		0	0			•	0
3.	LB Intake	LS		0	0	7 0 20 000	2020.000	31 330 000	•
	Total		<u></u>	39,150,000	39,150,000	7,830,000	7,830,000	31,320,000	31,320,000
w.	8 LB Main Canal						,		
		Unit	Quantity	Total Co	st (Rs)	Forein Curr		Local Curr	
	Construction Works			Unit price	Amount	' Unit price	Aniount	Unit price	Amoust
1.	Canal Works							2.005	2 4/2 27/
	type-B1	m	1,200	3,607	4,327,843	721	865,569	2,885	3,462,275
	type-Bli	i i m		2,984	0	597	0	2,388	0
	type-Bl	li m		2,754	0	551	0	2,203	0
	type-BI'	v m		2,413	0	483	0	1,931	0
	type-BV	_		2,010	0	402	0	1,608	0
	type-BV	_	600	1,561	936,440	312	187,288	1,249	749,152
	type-BV			1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-Ell			349	0	70	0	280	0
	type-Eli			300	0	- 60	0	240	0
	type-El'			63	0	13	. 0	50	0
	Sub-total	, ,,,			5,264,284		1,052,857		4,211,427
2.	Canal Structures (Gra	de C)							
	I Intake type-li	nos		333,543	0	66,709	0	266,834	• 0
۲٠	type-lli	DOS		127,233	: 0	25,447	0	101,787	. 0
		noś	. 6	36,136	216,817	7,227	43,363	28,909	173,454
2	2 Turnout type It		40	24,036	961,443	4,807	192,289	19,229	769,155
•	type lit		- 1	62,564	62,564	12,513	12,513	50,052	50,052
4-	3 Regulator type lr	nos	1	46,630	02,504	9,326	0	37,304	0
	type llr			80,731		16,146	· ŏ	64,585	. 0
2-	4 Drop type ld	nos			0	6,634	: 0	26,536	ŏ
	type lle			33,170	0	13,040	0	52,159	ŏ
2-	5 Under Crossin, type-Iu	ùos		65,198	0	12,121	0	48,485	ŏ
- 1	type llt			60,606			16,123	64,491	64,491
2-	6 Spillway type-lw			80,613	80,613	16,123	10,12,3	32,245	0,471
	type-lly		_	40,307	0	8,061	41,330	165,318	165,318
2.	7 Over Bridge type-lo			206,648	206,648	41,330	41,550	85,586	0,510
	type-llo			106,982	0	21,396			10.00
2-	8 Parshall Flume type-lp	nos		18,312	18,312	3,662	3,662	14,649	0
	type-H _I			12,283	0	2,457	0	9,826	0
. 2-	9 Aqueduct type-fa	nos		2,906,525	0	581,305	0		
: 1	type-lla	nos		25,167	0	5,033	100.070		_
	Sub-total :		50	1	1,546,397		309,279		1,237,118
3.		ade B)	: 100%					1000.034	266.024
3.	l lotake type-li	nos	1	333,543	333,543	66,709	66,709		
	type-Ili	nos		127,233	0	25,447	0		
3-	2 Turnout type-It	nos		36,136	0	7,227	0	5	172.000
	type-Ili	l nos	. 9	24,036	216,325	4,807	43,265		
3	-3 Regulator type-Ir	nos		62,564	0	12,513	0		
	type-IIi	r nos	;	46,630	0	9,326	0		
3	4 Drop type ld	nos	• • .	80,731	0	16,146	0		
	type-H			33,170	0	6,634	0	•	
3	 Under Crossin, type-Iu 			65,193	. 0	13,040	0		
	type-II	u nos		60,606	0	12,121	C		
3	6 Spillway type ly		,	80,613	0	16,123	C		
. :	type-II	w nos		40,307	0	8,061	0		
3	7 Over Bridge type Ic		5	206,648	0	41,330			
:	type-II			106,982	0	21,396	C		
3	-8 Parshall Flumetype Is			18,312	0	3,662	C	14,649	
	type-II			12,283	0	2,457	C		
3	9 Aqueduct type-la	-		2,906,525	0	581,305		2,325,220	0
	type-II			25,167	0	5,033	_		_
	Sub-total		10		549,868	•	109,974		439,894
4									
7		1.5	1	13,500,000	13,500,000	2,700,000	2,700,000	10,800,000	10,800,000
	Sub-total		•		13,500,000		2,700,000		10,800,000
	Total				20,860,549		4,172,110)	16,638,439

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

	inal	Unit	Quantity	Total Co	√t (Rs)	Forein Curre	ncy (Rs)	Local Curre	ncy (Rs)
Construction	Works		` '	Unit price	Amount	Unit price	Amount	Unit price	Amour
Canal Work									
	type-BI	m		3,607	0	721	0	2,885	1
	type Bll	m		2,934	0	597	0	2,388	
	type BIII	m		2,754	0	551	0	2,203	
	type-BIV	m		2,413	0	483	0	1,931	
	type-BV	m	2,700	2,010	5,427,897	402	1,085,579	1,608	4,342,31
	type-BVI	m		1,561	0	312	0	1,249	
	type-BVII		4.800	1,294	6,209,278	259	1,241,856	1,035	4,967,42
	type-El	m	•	430	0	86	0	344	•
	type-Elf	m		349	0	70	0	280	
	type-EllI	m		300	0	60	0	240	
	type-EIV	m		63	0	13	Ó	50	
Sub-tot		•••		-	11,637,176		2,327,435		9,309,74
	tures (Grade	e Ch	•		11,000,000			•	
-1 Intake	type-li	nos	1	333,543	333,543	66,709	66,709	266,834	266.83
- I IIII akt	type-lli	nos	•	127,233	0	25,447	0	101,787	
-2 Turnout	type-It	008	4	36,136	144,545	7,227	28,909	28,909	115,6
-s puncut		DO5	41	24,036	985,479	4,807	197,096	19,229	788.3
-3 Regulator	type-lit	nos	71	62,564	0	12,513	0	50,052	
-5 Regulator	type-ir		3	46,630	139,891	9,326	27,978	37,304	111,9
4. Dece	type-llr	DOS		80,731	0	16,146	0	64,585	,>
-4 Drop	type-ld	nos	ı	33,170	33,170	6,634	6,634	26,536	26,5
5 11 - 1 - C	type-lld	nos			33,170	13,040	0,0.14	52,159	20,5
-5 Under Cross		nos		65,198	. 0	12,121	Ö	48,485	
	type-llu	nos		60,606	0	16,123	0	64,491	
-6 Spillway	type-lw	nos		80,613	0	8,061	. 0	32,245	
	type-llw	nos		40,307	0		0	and the second second	57
-7 Over Bridge	• • • • • • • • • • • • • • • • • • • •	nos		206,648	0	41,330	0	165,318 85,586	
HEE	type-lio	nos		106,982	1.0	21,396	0	14,649	
-8 Parshall Flu		nos		18,312	0	3,662		-	9.8
	type-lip	nos	. 1	12,283	12,283	2,457	2,457	9,826	3,0
-9 Aqueduct =	type-la	nos		2,906,525	0	581,305	0	2,325,220	
_ :	type-IIa	nos		25,167	0	5,033		20,134	1,319,1
Sub-to	the state of the s	· <u>·</u>	51		1,648,912		329,782		1,519,1
	ctures (Grad		: 100%			:		266.024	
-1 Intake :	type-li	nos		333,543	0	66,709	0	266,834	
1	type Ili	nos		127,233	0	25,447	0	101,787	200
-2 Turnout	type-fi	nos		36,136	0	7,227	192 474	28,909	730 4
	type-lit	nos	38	24,036	913,371	4,807	182,674	19,229	730,6
-3 Regulator	type-Ir	nos		62.564	0	12,513	0	50,052	1 1
<u> </u>	type-lir	nos		46 630	0	9,326	0	37,304	1
-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	1.5
	type-IId	nos		33,170	0	6,634	0	26,536	12.5
-5 Under Cross		nos		65,198	0	13,040	. 0	52,159	1 4 1
	type-llu	nos		60,606	0	12,121	. 0	48,485	
-6 Spillway	type-Iw	nos		80,613	. 0	16,123	0	64,491	
•	type-llw	nos		40,307	0	8,061	0	32,245	
-7 Over Bridge	e type-lo	nos		206,648	. 0	41,330	0	165,318	
	type-llo	nos		106,932	0	21,396	0	85,586	
-8 Parshall Flu	me type-Ip	0.05		18,312	0	3,662	0	14,649	
:	type-llp	nos		12,283	0	2,457	0	9,826	
-9 Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	
-	type-lla	nos		25,167	0	5,033	0	20,134	en e
Sub-to			38		.: 913,371		182,674		730,6
					14,199,458		2,839,892		11,359,5

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

Construction Works Canal Works type type type type type type type typ	BIII m BIIII m BIV m BV m BVI m BVI m EII m EIII m EIII nos III nos	900 8,300 400	3,607 2,984 2,754 2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	Ansount O O O C 2,171,908 O 12,954,091 517,440 O O O 15,643,439 O 127,233 180,681 1,153,732 62,564 93,261 O O O O O O O O O O O O O O O O O O O	Forein Curr Unit price 721 597 551 483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	Ancount 0 0 0 434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0 0 0	2,885 2,388 2,203 1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	1.737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
Canal Works type type type type type type type typ	BIII m BIIII m BIV m BV m BVI m BVI m EII m EIII m EIII nos III nos	8,300 400	3,607 2,984 2,754 2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 0 2,171,908 0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	721 597 551 483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 0 434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0	2,885 2,388 2,203 1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,52 37,304 64,585 26,536 52,159 48,485	1,737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type-	BIII m BIIII m BIV m BV m BVI m BVI m EII m EIII m EIII nos III nos	8,300 400	2,984 2,754 2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 0 2,171,908 0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	597 551 483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	2,388 2,203 1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	1.737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type- Sub-total Canal Structures (i 1 Intake type- type- type- 1-3 Regulator type- type- type- 1-4 Drop type- type- 1-5 Under Crossin, type- type- 1-6 Spillway type- type- 1-7 Over Bridge type- type- 1-8 Parshall Flume type- type 1-9 Aqueduct type- type 1-9 Sub-total 1-1 Intake type- type 1-1 Intake type- type 1-2 Turnout type- type 1-2 Turnout type- type- type- 1-2 Turnout type- type- 1-2 Turnout type- type- 1-2 Turnout type- type- 1-2 Turnout type- type- type- 1-2 Turnout type-	BIII m BIIII m BIV m BV m BVI m BVI m EII m EIII m EIII nos III nos	8,300 400	2,984 2,754 2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 0 2,171,908 0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	597 551 483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	2,388 2,203 1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	1.737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type type type type type type type type	BIII m BIV m BV m BVI m BVI m BVI m EII m EII m EII nos III nos	8,300 400	2,754 2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 2,171,908 0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	551 483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	2,203 1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	1.737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type- 2-1 Intake type- t	BIV m BV m BVI m BVI m BVII m BVII m BIII m BIII m BIII no. BIII nos	8,300 400	2,413 2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	2,171,908 0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	483 402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	434,382 0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	1,931 1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	1,737,52 10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type-	BV m BVI m BVI m BVII m EII m EII m EIII no EIII no EIII nos III nos	8,300 400	2,010 1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 12,954,091 517,440 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	402 312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 2,590,818 103,488 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	1,608 1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	10,363,27 413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type type type type type type type type	BVI m BVII m BI m BI m BIII m BIII no BIII no BIII nos	400 i 5 48 i 2	1,561 1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	12,954,091 517,440 0 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	312 259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	2,590,818 103,488 0 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	1,249 1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
type type type type type type type type	BVII m EII m EIII m EIII m EIII m EIII m EIII nos III nos	400 i 5 48 i 2	1,294 430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	517,440 0 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	259 86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	103,488 0 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	1,035 344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	413,95 12,514,75 101,78 144,54 922,98 50,05 74,60
Sub-total Canal Structures (i.e.) Intake type type type Sub-total Canal Structures (i.e.) Intake type type Canal Structures (i.e.) Intake type type Canal Structures (i.e.)	Ell m Ell m Ell m Ell m Ell m Ell m Ell nos It nos	i 5 48 i 2	430 349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	86 70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	344 280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	12,514,75 101,78 144,54 922,98 50,05 74,60
type type type type type Sub-total Canal Structures (i 1 Intake type 1/2 Turnout type 1/3 Regulator type 1/4 Drop type 1/5 Under Crossin, type 1/6 Spillway type 1/7 Over Bridge type 1/7 Over Bridge type 1/8 Parshall Flume type 1/9 Aqueduct type 1/9 Aqueduct type 1/9 Lanal Structures (i 1-1 Intake type 1/9 Turnout type 1/9 Turn	Ell m Ell m Ell m Ell m rade C) i nos it nos	5 48 1 2	349 300 63 333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	70 60 13 66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	280 240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	101,78 144,54 922,98 50,05
Sub-total Canal Structures (in type type type) Turnout type type Turnout type Turnout type Turnout type Type Type Type Type Type Type Type T	EIII na EIV m Frade C) in nos it nos	5 48 1 2	333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	240 50 266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	101,78 144,54 922,98 50,03
Sub-total Canal Structures (in the type type) Turnout type type Regulator type type Turnout type	Frade C) i nos ili nos it nos	5 48 1 2	333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0	266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	101,78 144,5 922,98 50,08
Sub-total Canal Structures (6-1) Intake type 1-2 Turnout type 1-3 Regulator type 1-4 Drop type 1-5 Under Crossin, type 1-6 Spillway type 1-7 Over Bridge type 1-8 Parshall Flume type 1-9 Aqueduct type 1-9 Aqueduct type 1-9 Sub-total 1-1 Intake type 1-1-1 Intake type 1-2 Turnout type 1-2 Turnout type 1-3-2 Turnout type 1-4 Intake type 1-5 Under Crossin, type 1-6 Spillway type 1-7 Over Bridge type 1-8 Parshall Flume type 1-9 Aqueduct type 1-9 Aqueduct type 1-9 Sub-total 1-1 Intake type 1-9 Turnout type	Frade C) i nos ili nos	5 48 1 2	333,543 127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	15,643,439 0 127,233 180,681 1,153,732 62,564 93,261 0 0	66,709 25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	3,128,688 0 25,447 36,136 230,746 12,513 18,652 0 0 0	266,834 101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	101,78 144,5 922,98 50,08
Canal Structures (in the stype stype) 2 Turnout type stype 2 Turnout type stype 2 Turnout type stype 2 Turnout type stype 3 Regulator type stype 4 Drop type 5 Under Crossin type stype 5 Under Crossin type stype 6 Spillway type stype 6 Spillway type 7 Spillway type 8	ti nos	5 48 1 2	127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	0 127,233 180,681 1,153,732 62,564 93,261 0 0	25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	0 25,447 36,136 230,746 12,513 18,652 0 0	101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	101,78 144,5 922,98 50,08
1 Intake type type 1.2 Turnout type 1.3 Regulator type 1.4 Drop type 1.5 Under Crossin, type 1.6 Spillway type 1.7 Over Bridge type 1.8 Parshall Flume type 1.9 Aqueduct type 1.9 Sub-total 1. Canal Structures (1.1 Intake type 1.2 Turnout type 1.3 type 1.4 type 1.5 Under Crossin, type 1.6 Spillway type 1.7 Over Bridge type 1.8 Parshall Flume type 1.9 Aqueduct type 1.9 Sub-total 1. Canal Structures (1.1 Intake type 1.2 Turnout type 1.3 type 1.4 type 1.5 type 1.5 type 1.5 type 1.6 type 1.7 type	ti nos	5 48 1 2	127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	127,233 180,681 1,153,732 62,564 93,261 0 0	25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	25,447 36,136 230,746 12,513 18,652 0 0	101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	144,5 922,98 50,03
type type type type type type type type	It nos	5 48 1 2	127,233 36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	127,233 180,681 1,153,732 62,564 93,261 0 0	25,447 7,227 4,807 12,513 9,326 16,146 6,634 13,040 12,121	25,447 36,136 230,746 12,513 18,652 0 0	101,787 28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	144,5 922,98 50,03
-2 Turnout type type -3 Regulator type type -4 Drop type -5 Under Crossin, type -6 Spillway type -7 Over Bridge type 19 Aqueduct type 19 Aqueduct type Sub-total -1 Intake type 19 Turnout type	It nos It nos It nos It nos Id nos Id nos It nos It nos It nos It nos It nos It nos	5 48 1 2	36,136 24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	180,681 1,153,732 62,564 93,261 0 0	7,227 4,807 12,513 -9,326 16,146 -6,634 13,040 12,121	36,136 230,746 12,513 18,652 0 0	28,909 19,229 50,052 37,304 64,585 26,536 52,159 48,485	144,5 922,9 50,0
-3 Regulator type type type 4 Drop type type 5 Under Crossin; type type 6 Spillway type type 1-7 Over Bridge type type 1-8 Parshall Flume type type Sub-total 1. Canal Structures (1-1 Intake type type 1-2 Turnout type	It nos ir nos ir nos ir nos id nos ild	48 i 2	24,036 62,564 46,630 80,731 33,170 65,198 60,606 80,613	1,153,732 62,564 93,261 0 0	4,807 12,513 -9,326 16,146 -6,634 13,040 12,121	230,746 12,513 18,652 0 0 0	19,229 50,052 37,304 64,585 26,536 52,159 48,485	922,9 50,0
-3 Regulator type type -4 Drop type -5 Under Crossin; type -5 Under Crossin; type -6 Spillway type -7 Over Bridge type -7 Over Bridge type -8 Parshall Flume type -9 Aqueduct type	Ir nos IIr nos III nos III nos III nos III nos III nos III nos	2	62,564 46,630 80,731 33,170 65,198 60,606 80,613	62,564 93,261 0 0 0	12,513 9,326 16,146 6,634 13,040 12,121	12,513 18,652 0 0 0	50,052 37,304 64,585 26,536 52,159 48,485	50,0
type type type 5 Under Crossin; type type 6 Spillway type 7 Over Bridge type type 8 Parshall Flume type type 9 Aqueduct type type Sub-total Canal Structures (1 Intake type type 12 Turnout type type	Ir nos Id nos Id nos Iu nos Iu nos Iu nos Iu nos	2	46,630 80,731 33,170 65,198 60,606 80,613	93,261 0 0 0 0	9,326 16,146 6,634 13,040 12,121	18,652 0 0 0	37,304 64,585 26,536 52,159 48,485	
-4 Drop type type -5 Under Crossin; type type -6 Spillway type -7 Over Bridge type type -8 Parshall Flume type type 9 Aqueduct type type Sub-total Canal Structures (-1 Intake type type -2 Turnout type	ld nos lld nos lu nos llu nos lw nos		80,731 33,170 65,198 60,606 80,613	0 0 0	16,146 6,634 13,040 12,121	0 0 0	64,585 26,536 52,159 48,485	14,6
type 5 Under Crossin, type type 6 Spillway 7 Over Bridge type 8 Parshall Flume type type 9 Aqueduct type Sub-total Canal Structures (1 Intake type type 12 Turnout type	lld nos lu nos llu nos lw nos		33,170 65,198 60,606 80,613	0 0 0	6,634 13,040 12,121	0 0 0	26,536 52,159 48,485	
-5 Under Crossin, type type -6 Spillway type type -7 Over Bridge type type -8 Parshall Flume type type -9 Aqueduct type type -9 Sub-total - Canal Structures (-1 Intake type type -2 Turnout type	lu nos llu nos lw nos		65,198 60,606 80,613	0 0	13,040 12,121	0 0	52,159 48,485	
type type 7 Over Bridge type 18 Parshali Flume type 19 Aqueduct type 19 Sub-total 10 Canal Structures (11 Intake type 19 Turnout type 19 type 2 Turnout type 19 type	llu nos Iw nos		60,606 80,613	. 0	12,123	0	48,485	
6 Spillway type type 7 Over Bridge type 18 Parshall Flume type 19 Aqueduct type 19 Sub-total 10 Canal Structures (11 Intake type 19 Turnout type 19 type 19 type 2 Turnout type 19 type 19 type 19 type	w nos		80,613					
type type type 8 Parshali Flume type 19 Aqueduct type type Sub-total Canal Structures (1 Intake type type 2 Turnout type	er e e			0	16 133	Λ		
-7 Over Bridge type type 8 Parshall Flume type 19 Aqueduct type Sub-total Canal Structures (-1 Intake type 19 Turnout type	lw nos		40.707		16,123	0	64,491	
Sub-total Canal Structures (Intake type Type Turnout type Sub-total Canal Structures (Type Type Type Type Type Type Type Type Type			40,307	0	8,061	0	32,245	
8 Parshall Flume type type 9 Aqueduct type type Sub-total Canal Structures (-1 Intake type type -2 Turnout type	lo nos	l	206,648	206,648	41,330	41,330	165,318	165,3
9 Aqueduct type type Sub-total Canal Structures (I Intake type type 2 Turnout type			106,982	0	21,396	0	85,586	
9 Aqueduct type type Sub-total Canal Structures (1 Intake type type 2 Turnout type type	ip nos		18,312	0	3,662	. 0	14,649	* .
Sub-total Canal Structures (-1 Intake type type -2 Turnout type	Hp nos	٠.	12,283	0	2,457	0	9,826	
Sub-total Canal Structures (I Intake type type Turnout type type	la nos		2,906,525	0	581,305	0	2,325,220	
. Canal Structures (-1 Intake type type -2 Turnout type type	lla nos		25,167	0	5,033	0	20,134	
-1 Intake type type -2 Turnout type type		58		1,824,119		364,824		1,459.2
-2 Turnout type type		1		1 4 .	i		1 1 2 2 2 2 2	
-2 Turnout type type	li nos		333,543	0	66,709	. 0	266,834	
type	IIi nos		127,233	0	25,447	0	101,787	t i
			36,136	0	7,227	0	28,909	:
	llt, nos		24,036	0	4,807	0	19,229	
 3 Regulator type 			62,564	0	12,513	0	50,052	,
type	lir nos		46 ,630	0	9,326	1 0	37,304	
4 Drop type	ld nos	. }	80,731	0	16,146	0	64,585	100
type	fld nos	:	33,170	0	6,634	0	26,536	
 5 Under Crossin, type 	Iu nos		65,198	0	13,040	0	52,159	
type			60,606	0	12,121	0	48,485	
-6 Spillway type	Iw nos		80,613	0	16,123	0	64,491	
type			40,307	0	8,061	0	32,245	
-7 Over Bridge type			206,648	0	41,330	0	165,318	4
type			106,982	0	21,396	. 0	85,586	
-8 Parshall Flume type			18,312	0	3,662	. 0	14,649	
type			12,283	0	2,457	0	9,826	
9-9 Aqueduct type			2,906,525	0	581,305	, o	2,325,220	4
type			25,167	0	5,033	Ó	20,134	
Sub-total	:: '-	0		0	•	0		
		i-•						:

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

	nal	Unit	Quantity	Total Co	S((Rs)	Forein Curre	ncy (Rs)	Local Curr	ency (Rs)
Construction '	Vorks	OHR	Quantity.	Unit price	Amount -	Unit price	Amount	Unit price	Amou
. Canal Works							:	·	
· Cuisar racing	type-BI	m		3,607	0	721	0	2,835	
	type-Bil	m		2,984	0	597	. 0	2,388	
	type-Bill	m	4,800	2,754	13,219,122	551	2,643,824	2,203	10,575,29
	type-BiV	m	10,600	2,413	25,580,249	483	5,116,050	1,931	20,464,19
	type-BV	m	.0,000	2,010	0	402	0	1,608	
	type-BVI	m	700	1,561	1,092,514	312	218,503	1,249	874,0
	type-BVII	m	2,100	1,294	2,716,559	259	543,312	1,035	2,173,24
	type-El	m	2,100	430	0	86	0	344	
	type-EH	m		349	ō	70	0	280	
	• •	uz.		300	ŏ	60	0	240	
	type-EIII			63	ŏ	13	ŏ	50	
0.4	type-ElV	m		0.,	42,608,444	•	8,521,689		34,086,7
Sub-tota		. (1)			42,000,444		0,521,007		
. Canal Struct				333,543	0	66,709	0	266,834	
-1 Intake	type-li (con Hi	nos		127,233	. 0	25,447	0	101,787	
0. William 2.14	type-lli	nos	£	36,136	216,817	7,227	43,363	28,909	173,4
-2 Turnout	type-It	nos	6		1,490,237	4,807	298,047	19,229	1,192,1
5 B - 1 4	type-IIt	nos	62	24,036	62,564	12,513	12,513	50,052	50,0
-3 Regulator	type-ir	nos	1 5	62,564	* * * * * * * * * * * * * * * * * * * *	9,326	46,630	37,304	186.5
	type-llr	nos)	46,630	233,152		90,050	64,585	100,5
-4 Drop	type id	nos	•	80,731	00.611	16,146	19,902	26,536	79.6
	type-Ild	nos	3	33,170	99,511	6,634	-	52,159	77,0
-5 Under Crossi		nos		65,198	0	13,040	0	48,485	
	type-llu	nos	•	60,606	0	12,121	0	64,491	
-6 Spillway	type-lw	nos		80,613	0	16,123			193,4
	type-llw	nos	6	40,307	241,840	8,061	48,368	32,245	1,322,5
-7 Over Bridge	type-lo	nos	. 8	206,648	1,653,180	41,330	330,636	165,318	941,4
	type-llo	nos	11	106,982	1,176,804	21,396	235,361	85,586	
!-8 Parshall Flum		nos		18,312	0	3,662	0 457	14,649	0.6
	type-llp	nos	1.	12,283	12,283	2,457	2,457	9,826	9,8
-9 Aqueduct	type-la	nos		2,906,525	, 0	581,305	0	2,325,220	
	type-lla	nos		25,167	0	5,033	0	20,134	
Sub tota			103		5,186,390		1,037,278		4,149,
. Canal Struct			:100%			36 700	66.000	366.034	2000
-1 Intake	type-li	nos	j	333,543	333,543	66,709	66,709	266,834	266,8
	type-IIi	nos		127,233	0	25,447	0	101,787	
-2 Turnout	type-lt	nos		36,136	0	7,227		28,909	504 4
	type-llt	nos	31	24,036	745,119	4,807		19,229	596,0
-3 Regulator	(ype-ir	nos		62,564	0	12,513	0	50,052	•
1 1 1	type-llr	nos		46,630	0	9,326	0	37,304	. 1.
4 Drop	type-ld	nos		80,731	0	16,146	0	64,585	
	type-IId	nos		33,170	0	6,634	0	26,536	11
i-5 Under Crossi		nos		65,198	0	13,040	0	52,159	
	type-llu	nos		60,606	0	12,121	0	48,485	
-6 Spillway	type Iw	nos		80,613	0	16,123	0	64,491	
	type llw	nos		40,307	0	8,061	0	32,245	
7 Over Bridge	type lo	nos		206,648	0	41,330	0	165,318	
	type llo	nos		106,982	0	21,396	0	85,586	
8 Parshall Flun		nos		18,312	0	3,662	0	14,649	
:	type IIp	nos		12,283	0	2,457	0	9,826	•
9 Aqueduct	type la	nos	* -	2,906,525	0	581,305	0	2,325,220	
	type IIa	nos	. *	25,167	0	5,033	0	20,134	والمعام
Sub-tota	<u>. 1</u>		32		1,078,661		215,732	_ 	862,9

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

		Unit	Quantity	Total Co	બ્ લ (Rs)	Forein Curr	ency (Rs)	Local Curre	ency (Rs)
Construction				Unit price	Incom	Unit price	Amount	Unit price	Amous
. Canal Work	S								
	type-B1	171		3,607	0	721	0	2,885	1
	type-BH	m		2,984	0	597	0	2,388	1
	type-BIII	m		2,754	0	551	0	2,203	
	type-BIV	m	3,800	2,413	9,170,278	483	1,834,056	1,931	7,336,22
	type-BV	m		2,010	0	402	0	1,608	
	type-BVI	m		1.561	0	312	0	1,249	
	type-BVII	m	700	1,294	905,520	259	181,104	1,035	724,41
	type-El	m		430	0	86	0	344	
	type-Eff	m		349	. 0	70	0	280	
	type-EIII	m		300	0	60	: 0	240	
	type-EIV	m		63	0	13	0	50	
Sub-tot	al				10,075,798		2,015,160		8,060,63
. Canal Struc	tures (Grade	e C)	•	•					•
!-1 Intake	type-li	nos		333,543	0	66,709	0	266,834	
	type-lli	nos		127,233	0	25,447	0	101,787	
2-2 Turnout	type-It	nos	9	36,136	325,226	7,227	65,045	28,909	260,18
	type-IIt	nos	24	24,036	576,866	4,807	115,373	19,229	461,49
!-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	
-	type-Hr	nos	1	46,630	46,630	9,326	9,326	37,304	37,30
-4 Drop	type-ld	nos		80,731	. 0	16,146	. 0	64,585	. :
•	type-lld	nos		33,170	. 0	6,634	0	26,536	•
2-5 Under Cross	in; type-lu	DOS		65,198	0	13,040	0	52,159	1 1
	type-liu	nos		60,606	. 0	12,121	. 0	48,485	
2-6 Spillway	type-Iw	nos		80,613	0	16,123	- 0	64,491	
	type-llw	nos	\$	40,307	0	8,061	0	32,245	14
2-7 Over Bridge	type-Io	กอร		206,648	0 -	41,330	0	165,318	
	type-llo	nos	•	106,982	0	21,396	0	85,586	
2-8 Parshall Flui	ne type-lp	nos	1.3	18,312	0	3,662	0	14,649	
	type-IIp	nos	1	12,283	12,283	2,457	2,457	9,826	9,82
2-9 Aqueduct	type-la	nos		2,906,525	. 0	581,305	. 0	2,325,220	
	type-lla	nos		25,167	• 0	5,033	. 0	20,134	
Sub-tot			35		961,005		192,201		768,80
3. Canal Struc	tures (Grad	eB)	1					1	
3-1 Intake	type-li	nos	· j	333,543	333,543	66,709	66,709	266,834	266,83
	:: type-lli	nos		127,233	0	25,447	. 0	101,787	
3-2 Turnout	type-ft	DOS		36,136	0	7,227	0	28,909	
	type-IIt	nos	6	24,036	144,217	4,807	28,843	19,229	115,37
3-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	
	type-llr	nos		46,630	0	9,326	0	37,304	
3-4 Drop	type-Id	กงร		80,731	Ō	16,146	0	64,585	1
	type-lld	nos		33,170	0	6,634	0	26,536	1.
3-5 Under Cross		nos	•	65,198	0	13,040	0	52,159	•
	type IIu	nos		60,606	0	12,121	0	48,485	
1-6 Spillway	type Iw	nos		80,613	0	16,123	0	64,491	
	type llw	nos		40,307	0	8,061	0	32,245	
1-7 Over Bridge		nos		206,648	0	41,330	0	165,318	e de la composition della comp
· .	type llo	nos		106,982	0	21,396	0	85,586	, ,
3-8 Parshall Flu		nos		18,312	0	3,662	0	14,649	1. A
	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-lla	nos		25,167	0	5,033	0	20,134	
Sub-to	iai				477,759		95,552		382,20

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

	ial	Brit	Quantity	Total Co	st (Rs)	Forein Curre	ncy (Rs)	Local Cure	ency (Rs)
Construction V	: Vorke	Cont	Quantity	Unit price	Amount	Unit price	Amount	Unit price	Amout
Canal Works	YUSKS			Omagana				·	
Canal Works	ion DI	m		3,607	0	721	0	2,885	
	type-Bl			2,984	Ö	597	Ō	2,388	
	type-BH	D.	2,800	2,754	7,711,154	551	1,542,231	2,203	6,168,92
	type-Blll	m		2,413	12,790,125	483	2,558,025	1,931	10,232,10
	type-BIV	m	5,300		0	402	0	1,603	,
	type-BV	m	. 100	2,010		312	343,361	1,249	1,373,44
	type-BVI	m	1,100	1,561	1,716,807	259	1,992,143	1,035	7,968,57
	type-BVII		7,700	1,294	9,960,717	86	0	344	*,,,,,,,
	type-El	m		430	0	70	0	280	
	type-Ell	m		349	0		0	240	
	type-EIII	m		300	0	60	0	50	•
	type-EIV	m	÷	63	0	13		50	25,743,0
Sub-total					32,178,803		6,435,761		23,143,0
Canal Struct	ares (Grade	e C)			_	4 4 4 4 4 4	•	266 934	
1 Intake	type-li	nos		333,543	0	66,709	0	266,834	
•	type-Ili	nos		127,233	0	25,447	0	101,787	620.2
2 Turnout	type-It	nos	18	36,136	650,451	7,227	130,090	28,909	520,30
	type-llt	nos	. 55	24,036	1,321,985	4,807	264,397	19,229	1,057,5
3 Regulator	type-ir	nos	3	62,564	187,693	12,513	37,539	50,052	150,13
J	type-llr	nos	: 5	46,630	233,152	9,326	46,630	37,304	186,5
4 Drop	type-ld	nos	3	80,731	242,194	16,146	48,439	64,585	193,7
	type-IId	nos	5	33,170	165,852	6,634	33,170	26,536	132,6
5 Under Crossia		nos		65,198	. 0	13,040	0	52,159	
	type-Hu	nos		60,606	0	12,121	0	48,485	
6 Spillway	type-Iw	nos	3	80,613	241,840	16,123	48,368	64,491	193,4
O 0pm	type-llw	nos	5	40,307	201,533	8,061	40,307	32,245	161,2
-7 Over Bridge	type-to	nos	3	206,648	619,943	41,330	123,989	. 165,318	495,9
- Citt Diloge	type-llo	nos	5	106,982	534,911	21,396	106,982	85,586	427,9
-8 Parshall Flum		nos		: 18,312	0	3,662	′ 0	14,649	1
-0 201311011 11011	type-llp	กดร	_	12,283	12,283	2,457	2,457	9,826	9,8
-9 Aqueduct	type-ia	nos	-	2,906,525	0	581,305	. 0	2,325,220	1 .
-9 Agotudei	type-ila	nos		25,167	0	5,033	• • •	20,134	
Sub-tota		1100	106		4,411,837		882,367		3,529,4
. Canal Struct	ness (Crad	le Ri			.,,				
- Litake	type-li	nos		333,543	333,543	66,709	66,709	266,834	266,8
· I HRAKE	type-lli	nos		127,233	0	25,447	. 0	101,787	
1 Turnout		nos		36,136	0	7,227	0	28,909	(,
-2 Turnout	type-lt type-llt	nos		24,036	1,514,273	4,807	302,855	19,229	1,211,4
2 Damilator	type-lr	nos		62,564	0	12,513	0	50,052	
-3 Regulator		nos	and the second second	46,630	. o	9,126	0	37,304	
A Dese	type-lir	DOS		80,731	ŏ	16,146	0	64,585	
-4 Drop	type-ld	- 1	1 1 .	33,170	ŏ	6,634	0	26,536	
ان معاملات می مرکز و این می	type IId	nos		65,198	Ŏ	13,040	ō	52,159	
-S Under Crossi		nos		60,606	ŏ	12,121	0	48,485	
(. e . n	type-llu	nos		80,613	0	16,123	ŏ	64,491	
6 Spillway	type Iw	nos	1		0	8,061	ŏ	32,245	
	type llw	nos		40,307	ő	41,330	0	165,318	
-7 Over Bridge	type lo	nos		206,648	0	21,396	0	85,586	
	type-llo	nos		106,982	0	3,662	0	14,649	
1-8 Parshall Flur		nos		18,312			0	9,826	
	type-llo	1005		12,283	0	2,457	0	2,325,220	
3-9 Aqueduct	type-ia	BOS		2,906,525	0	581,305 5,033	0	20,134	
	Augus Ila	5.00	• .	25,167	0	2.0.1.1	v	40,134	, .
Sub-tot	type-lla	DO5	64	2.5,101	1,847,816	- 1	369,563		1,478,7

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

Muruthawela LB - Muruthawela LB Scheme - (1/20)

1. M 2. F 3. I M-2 I	Construction Wo Main Structure RB Intake B Intake Total LB Main Canal Construction Wo Canal Works	i .	Unit	· · · · · · · · · · · · · · · · · · ·	Unit price	Amount	Unit price	Amount	Unit price	Amoun
2. F 3. I M-2 I	RB Intake B Intake Total LB Main Canal Construction Wo	l	Unit	· <u>·</u>						
1-2 I	B Intake Total LB Main Canal Construction Wo	l	Unit							
\1-2 (Total LB Main Canal Construction Wo	l	Unit	·						
(LB Main Canal	l	Unit	·.						
(Construction Wo		Unit	<u>.</u>					· · · · · · · · · · · · · · · · · · ·	<u> </u>
(Construction Wo		Unit							
		orks		Quantity	Total C	Cost (Rs)	Forein Or	rrency (Rs)	Local Out	rency (Rs)
				Quantity	Unit price		Unit price	Amount	Unit price	Amoun
							Unit price		Cintrate	74177041
		type-BI	m		3,607	0	721	0	2,885	
		type-BH	m	2,550	2,984	7,610,203	597	1,522,041	2,388	6,088,16
		type-BIII	ກາ	5,100	2,754	14,045,317	551	2,809,063	2,203	11,236,25
		type-BIV	m	•	2,413	0	483	0	1,931	11,220,20
		type-BV	nı		2,010	Ō	402	Ď	1,608	I
		type-BVI	m		1,561	ŏ	312	ŏ	1,249	
		type-BVII	m		1,294	ŏ	259	ŏ	1,035	
		type-El	m	2,550	430	1,097,669	86	219,534	344	878,13
		type-Ell	Ωì	5,100	349	1,782,331	70	356,466	280	1,425,86
		type-EIII	m	- 4	300	0	60	0	240	1,125,00
	•	type-EIV	m		63	ŏ	13	ŏ	50	
	Sub-total		***		0.5	24,535,520		4,907,104	50	19,628,41
Σ. (Canal Structure		· · · · · ·			24,030,020		7,201,107		17,020,41
	Intake	type-li	nos	1	333,543	333,543	66,709	66,709	266,834	266,83
•	arture.	type-lli	nos	•	127,233	0	25,447	0	101,787	200,03
22 1	Furriout	type-It	nos	2	36,136	72,272	7,227	14,454	28,909	57,81
	i omout	type-IIt	nos	ŝ	24,036	120,180	4,807	24,036	19,229	
)_3 F	Regulator	type-Ir	nos	,	62,564	0	12,513	24,030	50,052	96,14
, J	veguiatoi	type-llr	nos		46,630	ő	9,326	Ô	37,304	
2-4 I	Denn	type-ld	nos		80,731	· ŏ	16,146	Ü	64,585	
L-7 I	Мор	type-lld	nos		33,170	ŏ	6,634	0	26,536	
2-5 1	Under Crossing		nos		65,198	ŏ	13,040	0	52,159	. :
C-J (Onder Crossing	type-llu	nos		60,606	ő	12,121	ŏ	48,485	
)_6 \	Spillway	type-lw	nos	,	80,613	80,613		16,123		64.40
C-0 0	эрш мау	type-llw	nos	1	40,307	00,013	8,061	10,123	64,491 32,245	64,49
7.7 (Over Bridge	type-lo	nos		206,648	0	41,330	. 0	165,318	•
5-7 X	orth bridge	type-llo			106,982	0		. 0		
9 0	Parshall Flume		nos	2	18,312	36,624	21,396		85,586	20.00
-0 r	arshair ranne	* 1	nos	. 2	12,283	30,024	3,662	7,325	14,649	29,29
).g /	Aqueduct	type-llp type-la	nos nos	1	2,906,525	2,906,525	2,457	0 581,305	9,826	2 225 22
C-2 I	rqueouct	type-lla	nos	,	25,167	2,700,323	5,033	0	2,325,220 20,134	2,325,22
	Sub-total		1103		23,107	3,549,757	3,033	709,951	20,134	
: 2	Canal Structure			: 100%		3,347,737		709,931		2,839,80
	ntake	type-li	nos	100%	333,543	333,543	66,709	66,709	266 424	. 766.02
	216470			1	127,233	333,343	25,447	00,709	266,834	266,83
ພລິກ	l'urnout	type-lli type-lt	nos nos	1	.36,136	•			101,787	วิษ กก
,- <u>L</u>]	i di IIOdi	type-lt		_	24,036	36,136 24,036	7,227	7,227	28,909	28,90
i.a r	Regulator	type-lit	nos	1.	62,564	24,036 0	4,807 12,513	4,807	19,229	19,22
,-, r	regulator	type-lr	nos					0	50,052	
3-4 E)ron	type-llr	nos		46,630	0	9,326	0	37,304	
7-4 L	hor	type-Id	nos		80,731 33,170	22.170	16,146	0	64,585	27.52
	Indae Canasia a	type-IId	nos	15		33,170	6,634	6,634	26,536	26,53
)-J (Under Crossing	type-lu	nos	15	65,198	977,975	13,040	195,595	52,159	782,38
	Na.111a.	type-llu	nos	,	60,606	90.613	12,121	0	48,485	
>-0 ∂ :	Spillway	type-lw	nos	1	80,613	80,613	16,123	16,123	64,491	64,49
: .) 71 - 4	Over Bridge	type-IIw type-Io	nos	14	40,307 206,648	40,307 2,893,065	8,061 41,330	8,061 578 613	32,245 165 318	32,24

206,648

106,982 18,312

12,283

25,167

2,906,525

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41,330

21,396 3,662 2,457 581,305 5,033

2,893,065

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578,613

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6,500,824

165,318 85,586

14,649

20,134

0 9,826 0 2,325,220

3,535,076

26,003,298

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3-7 Over Bridge

3-9 Aqueduct

Total

3-8 Parshall Flume

Sub-total

nos

nos

nos

nos

nos

nos

type-lo

type-llo

type-Ip

type-llp

type-la

type-lla

App. 5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (2/20) Muruthawela LB

	LB Branch Can		Unit	Quantity	Total Co	st (Rs)	Forein Cur	rency (Rs)	Local Curr	
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amount
	Canal Works									
••	***************************************	type-Bl	m		3,607	0	721	0	2,885	0
		type-BII	m		2,984	0	597	0	2,388	O
		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	O	1,608	0
					1,561	ŏ	312	O	1,249	0
		type-BVI	m		1,294	ŏ	259	ŏ	1,035	Ú
		type-BVII	m			ŏ	86	ŏ	344	ŏ
		type-El	m		430	. 0	70	ő	280	ŏ
		type-Ell	U)		349					300,145
		type-EIII	BJ	1,250	300	375,181	60	75,036	240	
		type-EIV	, m		63	0	13	0	50	0.212.276
	Sub-total	[3,391,720		678,344		2,713,376
2.	Canal Structure)							_
	Intake	type-li	nos	•	333,543	0	66,709	0	266,834	0
٠,1	***,	type-Ili	nos		127,233	0	25,447	0	101,787	0
2.2	Turnout	type-It	nos	1	36,136	36,136	7,227	7,227	28,909	28,909
Z-Z	Lothon		nos	20	24,036	480,722	4,807	96,144	19,229	384,577
A .	Danislater	type-lit			62,564	0,722	12,513	0	50,052	(
L-3	Regulator	type-ir	nos		46,630	ŏ	9,326	ŏ	37,304	· (
	_	type-llr	nos			ŏ	16,146	Ŏ	64,585	Č
2-4	Drop	type-Id	nos		80,731	ŏ	6,634	ŏ	26,536	. (
		type-IId	nos.		33,170	. 7		. 0	52,159	(
2-5	Under Crossing	type-lu	nos		65,198	0	13,040			Ò
		type-llu	nos		60,606	. 0	12,121	0	48,485	
2-6	Spillway	type-lw	nos		80,613	0	16,123	. 0	64,491	9
	•	type-llw	nos		40,307	0	8,061	0	32,245	(
2-7	Over Bridge	type-lo	nos	5	206,648	1,033,238	41,330	206,648	165,318	826,590
~ :		type-llo	nos		106,982	0	21,396	0	85,586	• (
2.8	Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649	
2-0	i distingiti i totto	type-llp	nos		12,283	0	2,457	. 0	9,826	•
2.0	Aguaduat	type-la	nos	•	2,906,525	0	581,305	Ö	2,325,220	17.0
Z-9	Aqueduct	type-lla			25,167	· ő	5,033	0	20,134	
	Cult total		nos		23,107	1,550,095	2,000	310,019		1,240,07
	Sub-total		95	: 100%	<u> </u>	1,350,355				4 .7.7 = 112 2 11.4-
3.	Canal Structure				222 542	. 0	66,709	0	266,834	F + H
3-1	Intake	type-li	nos		333,543	. Š	25,447	ď	101,787	1
		type-Ili	nos		127,233	1 1 1		ŏ	28,909	
3-2	Turnout	type-It	nos		36,136	0	7,227	i ŏ		and the fi
1.,		type-IIt	nos		24,036	0	,,		19,229	
3-3	Regulator	type-lr	nos		62,564	0	12,513	0	50,052	and the second second
100		type-llr	nos	di a a	46,630	0		0	37,304	004.10
3-4	Drop :	type ld	nos	14	80,731	1,130,239	16,146	226,048	64,585	904,19
	•	type-IId	nos	1 1	33,170	0		0	26,536	166.45
3-5	Under Crossing		nos		65,198	195,595	13,040	39,119	52,159	156,47
	-1.00. 5.0008	type-llu	nós		60,606	. 0	12,121	0	48,485	
3.6	Spillway	type-lw	nos		80,613	Ō		0	64,491	
J-0	эршиаў	type-llw	nos		40,307	Ō		0	32,245	
2.7	Ouar Bridge				206,648	ŏ		Ō	165,318	
3-7	Over Bridge	type-lo	nos		106,982	ŏ		ŏ	85,586	
	D 4 11 F	type-llo	nos			ŏ		ŏ	14,649	: :
5-8	Parshall Flume	type-lp	nos		18,312	ŏ		ŏ	9,826	
3		type-llp	nos		12,283		2,437 501 205		2,325,220	4,650,44
3-9	Aqueduct	type-la	nos		2,906,525		581,305	1,162,610		4,0.70,44
	- ·	type-lla	nos	;	25,167	0	- ,		20,134	and the second second
	Sub-tota	ıÌ			•	7,138,884		1,427,777		5,711,10
. 1	Total					12,080,699		2,416,140		9,664,559

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (3/20)

M-4	Tract II, D-1 Ca	anal								
	12.	_	Unit	Quantity		Cost (Rs)		rrency (Rs)		rency (Rs)
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amount
1.	Canal Works									
		type-BI	D)		3,607	. 0	721	0	2,885	O
		type-BH	m		2,984	0	597	.0	2,388	0
		type-BIII	กา		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	Ö	259	Ŏ	1,035	ŏ
		type-El	Πì		430	ŏ	86	~ŏ	344	ŏ
		type-EII	U)		349	ŏ	70	.a ŏ	280	ŏ
					300	ő	60	ŏ	240	ŏ
		type-EIII	m			0	13	. 0	50	
	O-1-1-1	type-EIV	m		63		13		30	0
A	Sub-total		· · · · ·			9,649,595		1,929,919		7,719,676
2.	Canal Structure				222 642		44.500		o de la constantia	
Z-1	Intake	type-li	nos	0	333,543	0	66,709	10	266,834	0
		type-lli	nos	0	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	8	36,136	289,089	7,227	57,818	28,909	231,271
		type-llt	nos	26	24,036	624,938	4,807	124,988	19,229	499,951
2-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
		type-llr	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	9	33,170	298,534	6,634	59,707	26,536	238,827
2-5	Under Crossing		nos		65,198	0	13,040	0	52,159	0
		type-Ilu	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-llw	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	10	106,982	1,069,822	21,396	213,964	85,586	855,858
2-8	Parshall Flume	type lp	nos	ĭ		18,312	3,662	3,662	14,649	14,649
	Turbian Tome	type-llp	nos	•	12,283	0,512	2,457	0,002	9,826	0
2.0	Aqueduct	type-la	nos		2,906,525	ŏ	581,305	ŏ	2,325,220	ŏ
2 /	rigocouci	type-lla	nos		25,167	ŏ	5,033	ŏ	20,134	ŏ
	Sub-total		1103		23,107	2,300,695	3,033	460,139	20,134	1,840,556
1 7	Canal Structure		<u> </u>	: 100%		2,300,093		400,137		1,040,330
	Intake	type-li	nos	1 100 70	333,543	O	66,709	0	266,834	0
٠.	Million	type-lli	nos		127,233	ŏ	25,447	ŏ	101,787	ŏ
1.2	Turnout	type-It	nos		36,136	ŏ	7,227	ŏ	28,909	ŏ
- J L	2011.000	type-llt			24,036	ŏ	4,807	ŏ	19,229	ŏ
3.3	Regulator	type-Ir	nos nos		62,564	ŏ	12,513	ŏ	50,052	. ŏ
5-5	Regulator	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,609
3.4	Drop	*		~	80,731	93,201	16,146		64,585	
	Diop	type-Id	nos		33,170	•		13.249		52.073
2.5	Hadar Crassina	type-lld	nos	2		66,341	6,634	13,268	26,536	53,073
3-3	Under Crossing	type-fu	nos		65,198	0	13,040	100.000	52,159	0
. 2 4	Callinan	type-llu	nos	9	60,606	545,451	12,121	109,090	48,485	436,361
3-0	Spillway	type-lw	nos		80,613	0	16,123	0,	64,491	0
2.2	O D : 1	type-llw	nos		40,307	. 0		0	32,245	0
3-7	Over Bridge	type-lo	nos		206,648	0		0	165,318	. 0
	D 1 11 15	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-llp	nos	F	12,283	, 0	2,457	0	9,826	0
3-9	Aqueduct	type-la	nos	100	2,906,525	0	581,305	. 0	2,325,220	Ó
		type-lla	nos		25,167	0	5,033	0	20,134	0
* *,	Sub-total	l : -		7		705,053		141,011		564,042
		100		* .		112 1116				
·	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

N1-9	Tract II, D-2 Ca	anal							1 x : .	
.**			Unit	Quantity	Total Co		Forein Curr		Local Curre	-
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amount
1.	Canal Works				2.407	n	721	0	2,885	0
		type-Bl	m		3,607	0	721	. 0	2,388	ŏ
		type-Bll	តា		2,984	0	597 551	0	2,303	ŏ
		type-BIII	m		2,754	0	483	- · · ŏ	1,931	ŏ
		type-BIV	m		2,413	-	402	ŏ	1,608	ŏ
		type-BV	m		2,010	0	312	ŏ	1,249	ŏ
		type-BVI	m		1,561		259	388,080	1,035	1,552,320
		type-BVII		1,500	1,294 430	1,940,399	86	0	344	0
		type-El	n) .		349	0	70	· č	280	Ŏ
		type-Ell	m		300	Ű	60	ŏ	240	0
		type-Elli	m		63	. 0		: 0	50	Ü
	ivet and al	type-EIV	m		0.5	1,940,399		388,080	-	1,552,320
	Sub-tota		ig			1,770,577				. Tefa i = ef i = e
	Canal Structure				333,543	0	66,709	0	266,834	0
2-1	Intake	type-li	nos		127,233	ŏ		0	101,787	O
20		type-lli	nos	2		72,272		14,454	28,909	57,818
2-2	Turnout	type-It type-Ilt	nos nos	8	24,036	192,289		38,458	19,229	153,831
0.0	Desidator	type-lr	nos	Ŭ.	62,564	0		0	50,052	0
2-3	Regulator	type-llr	nos		46,630	0		0	37,304	0
2.4	Dron	type-Id	nos		80,731	0		. 0	64,585	0
Z-4	Drop	type-IId	nos	. 7		232,193	6,634	46,439	26,536	185,754
2.5	Under Crossing		nos	·	65,198	. 0		0	52,159	0
Z-3	Olider Crossing	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
2-0	o opiniona)	type-llw	nos		40,307			. 0	32,245	0
2-7	7 Over Bridge	type-lo	nos		206,648	. 0		0	165,318	0
		type-llo	nos	3	106,982	320,947		64,189	85,586	256,757
2-8	3 Parshall Flume		nos		18,312			0 457	14,649	0
		type-llp	nos	1	12,283	12,283		2,457	9,826	9,826 0
2-9) Aqueduct	type-la	nos		2,906,525	9		0	2,325,220	ő
	•	type-lla	nos		25,167	020.00		0 700 241	20,134	663,987
	Sub-tota	d .				829,984		165,997	de montre de	003,207
3.	Canal Structur	es (Grade		: 100%	222.647	(66,709	0	266,834	. 0
3-	1 Intaké	type-li	nos		333,543	(. ' '	ŏ	101,787	Ü
1		type-lli	nos		127,233	(ŏ	- A * A + A + A + A	Ō
3-	2 Turnout	type-it	nos		36,136 24,036	ì		ŏ	19,229	0
:	0.0	type-lit	DOS		62,564		12,513	Ŏ	50,052	0
3	3 Regulator	typé-ir	nos		46.630		9,326	0	37,304	0
	4. Dava	type-lir	nos nos		80.731		16,146	0	64,585	0
3-	4 Drop	type-ld type-lld:	nos	. 1	33,170	33,170		6,634	26,536	26,536
2	5 Under Crossing	type-nu-	nos		65,198		13,040	. 0	52,159	0
.J-) Onuci Crossing	type-llu	nos		60,606		12,121	0	48,485	0
3.	6 Spillway	type-lw	nos		80,613		16,123	0	64,491	0
J-	O Spilina)	type-llw	nos		40,307		8,061	0	32,245	0
3.	7 Over Bridge	type-Io	nos	and the second second	206,648	. (0 41,330	0	165,318	0
	, Otte Diogo	type-llo	nos		106,982	•	0 21,396	0	85,586	0
3-	8 Parshall Flume		nos		18,312		0 3,662	0	14,649	0
_		type-llp	nos		12,283		0 2,457	0	9,826	0
3-	9 Aqueduct	type-la	nos		2,906,525		581,305	0	2,325,220	0
_		type-Ila	nos		25,167		0 5,033	6 6 2 4	20,134	26,536
	Sub-tot	al				33,17	U	6,634	100	20,550
						2 003 55	4	560,711		2,242,843
	Total					2,803,55	<u> </u>	200,711	 	2,272,073

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (5/20) Murothawela LB

		2	Unit	Quantity		ost (Rs)	Forein Cur		Local Curr	-
	Construction Wo	rks		· · · · · · · · · · · · · · · · · · ·	Unit price	Amount	Unit price	Amount	Unit price	Amount
1.	Canal Works								2	
		type-Bl	m		3,607	0	721	0	2,885	O
		type-B11	m		2,984	0	597	0	2,388	O
		type-BIII	m		2,754	0	551	0	2,203	0
		type-BIV	m		2,413	O	483	0	1,931	C
	•	type-BV	m	. :	2,010	. 0	402	0	1,608	
		type-BVI	m		1,561	. 0	312	. 0	1,249	€
		type-BVII	กา	800	1,294	1,034,880	259	206,976	1,035	827,904
	*	type-El	m		430	0	86	0	344	
		type-Ell	m		349	0	70	.0	280	· ·
		type-EIII	m		300	Ó	60	0	240	ĺ.
		type-EIV	m		63	Ŏ	13	. 0	50	. 0
	Sub-total		***		0,7	1,034,880		206,976		827,904
)	Canal Structure		S			1,05 1,000		200,770		
	Intake	type-li	nos		333,543	0	66,709	0	266,834	C
,- 1	mano		nos		127,233	ŏ		ŏ	101,787	Õ
2	Turnout	type-III	nos	3	36,136	108,409	7,227	21,682	28,909	86,72
,- Z	iamout	type-It		10	24,036	240,361	4,807	48,072	19,229	192,289
	Danilotoa	type-lit	nos	10		240,301	12,513	40,072	50,052	172,20
3	Regulator	type-ir	nos		62,564	Ö	9,326	0	37,304	
	D	type-llr	nos		46,630			0:	64,585	Č
2-4	Drop	type-Id	nos		80,731	0	16,146		26,536	ì
		type-lld	nos		33,170	0	6,634	0		
!-5	Under Crossing		nos		65,198	0		0	52,159	(
		type-Ilu	nos		60,606	0		. 0	48,485	
?-6	Spillway	type-lw	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-lo	nos		206,648	0		1 0	165,318	
		type-llo	nos	, 4	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	1.11
		type-ifp	nos	: 1	12,283	12,283	2,457	2,457	9,826	9,826
2-9	Aqueduct	type-la	nos		2,906,525	0		0	2,325,220	(
		type-lla	nos		25,167	. 0	5,033	0	20,134	
	Sub-tota					788,981		157,796		631,185
3.	Canal Structur	es (Grade E	1)	: 100%	100 to 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4.31.6.3	- 1
3-1	Intake	type-li :	nos		333,543	. 0	6 15	0	266,834	(
		type-lli	nos		127,233	. 0		0	101,787	. (
3-2	Turnout	type-It	nos		36,136	. 0	1	0	28,909	
		type-IIt	nos		24,036	0		-	19,229	1
3-3	Regulator	type-lr	nos	1	62,564	0	12,513	0	50,052	· 19
	. ,	type-llr	nos		46,630	0	9,326	. 0	37,304	
3-4	Drop	type-ld	nos		80,731	. 0		0	64,585	(
		type-lld	nos			331,704	6,634	66,341	26,536	265,36
3-5	Under Crossing		nos		65,198	. 0		υ	52,159	
		type-llu	nos		60,606	. 0		. 0	48,485	. (
3-6	Spillway	type-lw	nos		80,613	Ō		0	64,491	. (
-	# ************************************	type-llw	nos		40,307	Ō		0	32,245	. (
3.7	Over Bridge	type-Io	nos		206,648	Ō		Ŏ	165,318	(
•	C idi DiloPo	type-llo	nos		106,982	ŏ		ŏ	85,586	
9	Parshall Flume	type-lp	nos		18,312	·ŏ		Ö	14,649	
	t at Might Fivility	type-llp			12,283	·ŏ		ŏ	9,826	(
2 0	Aqueduct	type-la	nos		2,906,525	ŏ			2,325,220	
3-7 :	Aqueuver		nos			ŏ		Ö	20,134	
	Sub tata	type-lla	nos		25,167	331,704		66,341	20,134	265,36
	Sub-tota				• •	331,104		W,341	-	400,00
	· ·									

App. 5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (6/20)

	the state of the s		Unit	Quantity	Total Co	ost (Rs)	Forein Cun	rency (Rs)	Local Curr	ency (Rs)
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amoun
	Canal Works									
		type-Bl	m		3,607	0	721	O	2,885	(
		type-Bli	m		2,984	0	597	0	2,388	(
		type-BIII	m		2,754	0	551	O	2,203	(
		type-BIV	m		2,413	0	483	0	1,931	. (
		type BV	m		2,010	0	402	0	1,608	
		type BVI	m		1,561	0	312	. 0	1,249	!
		type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,92
		type-El	U.	000	430	0	86	Ö	344	
		type-Ell	n)		349	ő	70	Ŏ	280	
					300	ŏ	60 :	ŏ	240	. !
		type-EIII	m,		63	ő	13	ő	50	
	Cub dotal	type-EIV	BI		.03	776,160	1.3	155,232	50	620,92
	Sub-total		,			770,100		133,232		020,72
	Canal Structure				222 6 42	Λ	86 700	n	266 834	
Z- 1	Intake	type-li	nos		333,543	0	66,709	0	266,834	,
	m.	type-lli	nos	_	127,233	109.400	25,447	21.642	101,787	
<i>L</i> -2	Turnout	type-It	nos	3	36,136	108,409	7,227	21,682	28,909	86,72
		type-lit	nos	. 9	24,036	216,325	4,807	43,265	19,229	173,06
2-3	Regulator	type-Ir	nos	1	62,564	. 0	12,513	0	50,052	
		type-llr	nos		46,630	0	9,326	0	37,304	102.75
2-4	Drop	type-Id	nos	; 3	80,731	242,194	16,146	48,439	64,585	193,75
	-	type llo	nos		33,170	. 0	6,634	0	26,536	
2-5	Under Crossing		nos		65,198	0	13,040	0	52,159	* :
		type IIu	nos		60,606	. 0	12,121	0	48,485	•
2-6	Spillway	type-lw	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-lo	nos		206,648	. 0	41,330	0	165,318	
•		type-llo	nos	. 3	106,982	320,947	21,396	64,189	85,586	256,75
)_R	Parshall Flume		nos	_	18,312	0	3,662	0	14,649	
-		type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,82
7.0	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	
	riquedect	type-lla	nos	1	25,167	Ű	5,033	0	20,134	•
	Sub-tota					900,157		180,031		720,12
3.	Canal Structure		8	: 100%						
		type-li	nos		333,543	. 0	66,709	0	266,834	
	Hittike	type-lli	nos	1	127,233	0	25,447	0	101,787	· • • • • • • • • • • • • • • • • • • •
i_2	Turnout	type-It	nos		36,136	: Ŏ	7,227	Ü	28,909	
)-Z	rainost .	type-llt	nos	1.7	24,036	ŏ	4,807	ŏ	19,229	
1.7	Regulator		nos		62,564	ŏ	12,513	ŏ	50,052	
ر-ر	INC SUI a IUI	type-lr type-llr			46,630	ŏ	9,326	ŏ	37,304	
2 A	Dron		nos		80,731		16,146	ő	64,585	
J-4	Drop	type-Id	nos	1	33,170	33,170	6,634	6,634	26,536	26.53
	Hadan Chancina	type-lld	nos	. 1		33,170	13,040	0,034	52,159	20,33
5- 3	Under Crossing	type-tu	nos		65,198			ő	48.485	
	0.20	type-llu	nos	1	60,606	0	12,121			
5-6	Spillway	type-lw	nos		80,613	0	16,123	0	64,491	
	: a . b . t	type-llw	nos		40,307	. 0	8,061	0	32,245	
3-7	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	1
		type-llo	nos		106,982	0	21,396	0	85,586	1 1
3-8	Parshall Flume	type-Ip	ńos		18,312	0	3,662	0	14,649	
		type-llp	nos		12,283	0	2,457	0	9,826	
3-9	Aqueduct	type-Ia	nos		2,906,525	0		0	2,325,220	
	-	type-IIa	nos		25,167	0	5,033	0	20.134	
	Sub-tota	! -				33,170		6,634		26,53

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (7/20)

M-8 Tract II, D-5 (Unit	Quantity	Total Co-	st (Rs)	Forein Cun	ency (Rs)	Local Curre	ncy (Rs)
Construction W	orks .		- •	Unit price	Amount	Unit price	Amount	Unit price	Amount
. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	O
	type-Bli	m		2,984	0	597	0	2,388	0
٠	type-Blil	m		2,754	0	551	0	2,203	C
	type-BIV	m		2,413	0	483	0	1,931	(
	type-BV	ni		2,010	0	402	0	1,608	(
	type-BV1	m		1,561	Ö	312	10	1,249	(
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,957
	type-El	m	100	430	0	86	0	344	(
	type-Ell			349	ŏ	70	. 0	280	(
		n)		300	ŏ	60	ŏ	240	
	type-Elli	_ D)		63	ŏ	13	ŏ	50	(
	type-EIV	W)		03	517,440	13	103,488	50	413,95
Sub-tot		•5			317,440		103,400		413.73
2. Canal Structu				222 542	Λ	66 700	0	266,834	(
2-1 Intake	type-li	nos		333,543	0	66,709	0	101,787	(
	type-lli	nos	_	127,233	20.020	25,447			
2-2 Turnout	type-lt	nos	2	36,136	72,272		14,454	28,909	57,818
	type-llt	nos	5	24,036	120,180	4,807	24,036	19,229	96,14
2-3 Regulator	type-Ir	DOS		62,564	0	12,513	0	50,052	
<u>-</u>	type-lir	nos		46,630	0		0	37,304	(
2-4 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	53,07.
2-5 Under Crossing		nos		65,198	0	13,040	0	52,159	
	type-llu	nos		60,606	0	12,121	0	48,485	
2-6 Spillway	type-Iw	nos		80,613	. 0	16,123	0	64,491	
o opninaj	type-llw	nos		40,307	0	8,061	0	32,245	(
2-7 Over Bridge	type-lo	nos		206,648	. 0	41,330	0	165,318	(
o i o i o i o i o i o o o	type-llo	nos		106,982	0		0	85,586	. (
2-8 Parshall Flume	type-lp	nos		18.312	0		0	14,649	(
c-o rassidir rume	type-llp	nos		12,283	12,283		2,457	9,826	9,82
2-9 Aqueduct		nos		2,906,525	0			2,325,220	. ,,,-
2-5 Aqueduct	type-la type-lla	nos		25,167	ŏ		ŏ	20,134	
Sub-to		1103		23,101	271,077		54,215	20,101	216,86
3. Canal Structu		RY	: 100%		211,011	· · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	
3. Canai Siruciu 3-1 Intake	type-li	رما nos	. 100 /	333,543	0	66,709	0	266,834	' (
3-1 Illianc			100	127,233	ŏ		ŏ	101,787	. (
1.2 Tyranul	type-Ili	nos	:	36,136	ŏ		ŏ	28,909	13.0
3-2 Turnout	type-It	nos		24,036	Ŭ		Ö	19,229	
2.2 Danulatar	type-llt	nos			ű		. 0	50,052	
3-3 Regulator	type-Ir	nos	_	62,564			9,326	37,304	37,30
3.4. D	type-llr	nos		46,630	46,630				37,30
3-4 Drop	type-Id	nos		80,731	0		0	64,585	
	type-IId	nos		33,170	0		0	26,536	
3-5 Under Crossin	g type-lu	nos		65,198	0		0	52,159	
	type-llu	nos		60,606	0		0	48,485	
3-6 Spillway	type-Iw	nos		80,613	0		0	64,491	
	type-llw	nos	;	40,307	C		O	32,245	
3-7 Over Bridge	type lo	nos	;	206,648	· ·		0	165,318	
	type-llo	nos		106,982	C		0	85,586	
3-8 Parshall Flume	e type-Ip	nos		18,312	. 0		0	14,649	1000
	type-llp	nos		12,283	C	2,457	0	9,826	
3-9 Aqueduct	type-la	nos		2,906,525			0	2,325,220	
	type-lla	nos		25,167	0		0	20,134	
Sub-to			٠,	; ,·- -	46,630		9,326	•	37,30
				-			127 000		200 11
Total					835,147	'	167,029		668,11

App. 5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (8/20)

		Unit	Quantity	Total Co	st (Rs)	Forein Cun	rency (Rs)	Local Curr	ency (Rs)
Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amoun
1. Canal Works								0.005	,
	type-Bl	BJ		3,607	0	721	0	2,885	9
	type-Bll	m		2,984	0	597	. 0	2,388	(
	type-Bill	m		2,754	0	551	0	2,203	(
	type-BIV	m		2,413	0	483	; O	1,931	
	type-BV	m		2,010	0	402	. 0	1,608	(
	type BVI	m		1,561	0	312	0	1,249	(
	type-BVII	m	1,200	1,294	1,552,320	259	310,464	1,035	1,241,850
	type-El	· m ·	. ,	430	0	86	. 0	344	
	type-Ell	m		349	Ō	70	: 0	280	(
		m		300	ŏ	60	. 0	240	(
	type Elll			63	ŏ	13	ŏ	50	. (
i dada asal	type-EIV	m		0,5	1,552,320	15	310,464	50	1,241,850
Sub-total		· · · · · · · · · · · · · · · · · · ·			1,332,320		310,404		1,241,05
2. Canal Structure				222 542	r)	66,709	O	266,834	
2-1 Intake	type-li	nos		333,543	0		ŏ	101,787	
- a m	type-ili	nos		127,233	_	7,227	28,909	28,909	115,63
2-2 Turnout	type-It	nos	.4	36,136	144,545	• •		19,229	230,74
	type-lit	nos	12	24,036	288,433		57,687		•
2-3 Regulator	type-Ir	nos		62,564	. 0		0	50,052	· · · · (
- -	type-llr	nos		46,630	0		0	37,304	
2-4 Drop	type-Id	nos		80,731	0		0	64,585	62.07
· .	type-Ild	nos	2	33,170	66,341		13,268	26,536	53,07
2-5 Under Crossing	type-Iu	nos		65,198	0		0	52,159	
	type-Ilu	nos		60,606	0		0	48,485	4 , 4
2-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	· ·
	type-llw	nos		40,307	. 0	8,061	0	32,245	
2-7 Over Bridge	type-lo	nos		206,648	. 0	41,330	0	165,318	
2.7 Otti Bridge	type-llo	nos	2	106,982	213,964	21,396	42,793	85,586	171,17
2-8 Parshall Flume		nos	_	18,312	Ó	3,662	. 0	14,649	
2-0 Tarshall Tunk	type-llp	пos	1	12,283	12,283		2,457	9,826	9,82
2.0 Aquaduct		nos	•.	2,906,525	0		0	2,325,220	
2-9 Aqueduct	type-la type-lla	nos		25,167	. 0		. 0	20,134	
Sub-tota		1103		25,107	725,566		145,113		580,45
3. Canal Structur		kV	: 100%		,,,,,,,,	· •- • • · · · · · · · · · · · · · ·			
		nos	* 100 /0	333,543	. 0	66,709	0	266,834	
3-1 Intake	type-li			127,233	ď		ŏ	101,787	
2.2 Turnout	type-ili	nos		36,136	Ö		ŏ	28,909	
3-2 Turnout	type-lt	nos		24,036	Ö		ŏ	19,229	1000
0.0 D	type-lit	nos			Č		ŏ	50,052	100
3-3 Regulator	type-Ir	nos		62,564			9,326	37,304	37,30
	type-lir	nos	1	•	46,630		9,320	64,585	31,50
3-4 Drop	type-id	nos		80,731	22.170		6,634	26,536	26,53
	type-lid	nos	· 1	33,170	33,170				20,55
3-5 Under Crossing	type-lu	nos	_	65,198			0.1040	52,159	
	type-llu	nos	• 2	60,606	121,211		24,242	48,485	96,96
3-6 Spillway	type-lw	nos		80,613		16,123	0	64,491	20.0
· ·	type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,24
3-7 Over Bridge	type-lo	nos	1	206,648	Q		. 0	165,318	
	type-lio	nos		106,982	0		0	85,586	
3-8 Parshall Flume	type-Ip	nos		18,312	; 0		. 0	14,649	
	type-llp	nos		12,283	C	2,457	0	9,826	
3-9 Aqueduct	type-Ia	nos		2,906,525			. 0	2,325,220	
J J Tiguettett	type-lla	nos		25,167	C		0	20,134	4.
Sub-tota					241,319		48,264	· .	193,05
JGU IUIA		:					•	3 To 1 To 4	
							503,841		2,015,36

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

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

			Unit	Quantity	Total Co	ost (Rs)	Forein Cur	rency (Rs)	Local Cur	rency (Rs)
	Construction Wo	rks		` '	Unit price		Unit price	Amount	Unit price	Amou
•	Canal Works									
		type-BI	m		3,607	0	721	0	2,885	
		type BH	n		2,984	0	597	Ŏ	2,388	
:		type-BIII	m		2,754	Ö	551	ŏ	2,203	
		type BIV	m		2,413	ŏ	483	ŏ	1,931	
					2,010	ŏ	402	0	1,608	
		type-BV	nı			. 0	312			
		type BVI	m	200	1,561	· ·		101 104	1,249	224.41
		type-BVII	m	700	1,294	905,520	259	181,104	1,035	724,41
		type El	m		430	. 0	86	0	344	
		type-Ell	m		349	0	70	0	280	
		type-EIII	m		300	0	60	0	240	
		type-EIV	m		63	0	13	0	50	
	Sub-total					905,520		181,104		724,41
•	Canal Structure	s (Grade C	:)							
	Intake	type-li	nos		333,543	0	66,709	0	266,834	
		type-ili	nos		127,233	0	25,447	0	101,787	
-2	Turnout	type-it	nos	4	36,136	144,545	7,227	28,909	28,909	115,63
		type-ilt	nos	14		336,505	4,807	67,301	19,229	269,20
-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	
_		type-llr	nos		46,630	Ŏ	9,326	· ŏ	37,304	
-4	Drop	type-Id	nos		80,731	ŏ	16,146	ŏ		
•	Бюр	type-lld	nos	1	33,170	33,170	6,634	6,634	26,536	26,53
٠,	Under Crossing	type-Iu			65,198	33,170	13,040	0,034	52,159	20,3.
-,	Olider Clossing		nos	1	60,606	60,606	12,121	12,121		
4	Callings	type-llu	nos	1					48,485	48,48
-0	Spillway	type-lw	nos		80,613	. 0	16,123	0	64,491	- 1
7	Own Dates	type-llw	nos		40,307	0	8,061	0	32,245	·
- 7	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	
	B 1 11 23	type-lio	nos	. 1	106,982	106,982	21,396	21,396	85,586	85,58
-8	Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649	
		type-lip	nos]	12,283	12,283	2,457	2,457	9,826	9,82
-9	Aqueduct	type-la	nos		2,906,525	0	581,305	0.	2,325,220	<u>.</u>
		typė-Ha	nos		25,167	0	5,033	0	20,134	
	Sub-total					694,091		138,818		555,27
	Canal Structure	es (Grade B	3)	: 100%			1 ::			
-1	Intake	type-li	nos		333,543	. 0	66,709	0	266,834	V
		type-lli	nos	1	127,233	0	25,447	. 0	101,787	:
-2	Turnout	type-lt	nos		36,136	0	7,227	0	28,909	
		type-lit	nos		24,036	0	4,807	0	19,229	. •
-3	Regulator	type-ir	nos	4	62,564	0	12,513	0	50,052	1.
;		type-llr	nos		46,630	0	9,326	- 0	37,304	
4	Drop	type-ld	nos		80,731	0	16,146	0	64,585	
		type-lld	nos		33,170	0	6,634	0	26,536	
-5	Under Crossing	type-lu	nos		65,198	F 0	13,040	. 0	52,159	
		type-llu	nos		60,606	Ü	12.121	Ö	48,485	
-6	Spillway	type-lw	nos	•	80,613	Ö	16,123	ŏ	64,491	
-		type-liw	nos		40,307	ŏ	8,061	ŏ	32,245	
-7	Over Bridge	type-lo	nos		206,648	ő	41,330	ŏ	165,318	
•	Citi pilogo	type-llo	nos		106,982	: 0	21,396	ŏ	85,586	
.8	Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649	
O	I monant runic					ŏ		the second secon		
· o.	Aqueduct	type-llp	200		2 006 525		2,457	0	9,826	
-7	Adacaact	type-la	nos		2,906,525	0	581,305	0	2,325,220	
	Sub-total	type-lla	noș		25,167	0	5,033	0 ± 0	20,134	
		11 .								

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (10/20) Muruthawela LB

	Canal	Unit	Quantity	Total Co	ost (Rs)	Forein Curi	ency (Rs)	Local Curr	ency (Rs)
Construction Wo	rks		• •	Unit price	Amount	Unit price	Amount	Unit price	Amoun
. Canal Works									_
	type-Bl	m		3,607	0	721	. 0	2,885	, 0
	type-Bll	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	C
	type BIV	សា		2,413	. 0	483	0	1,931	
	type BV	nı		2,010	0	402	0	1,608	
	type BVI	m		1,561	- 0	312	. 0	1,249	. (
	type BVII	m	1,900	1,294	2,457,839	259	491,568	1,035	1,966,271
	type El	m		430	0	86	0	344	(
	type-Ell	ធា		349	0	70	. 0	280	. (
	type-Elll	m		300	Ó	60	0	240	(
	type-EIV	m		63	ō	13	Ō	50	(
Sub-total		111		03	2,457,839		491,568	•	1,966,27
2. Canal Structure		ų			2,.07,073				
2-1 Intake		nos		333,543	0	66,709	0	266,834	(
2-1 SHIANG	type-li type-lli	nos		127,233	ŏ		ŏ	101,787	(
2 Turnout	* * .		4	36,136	144,545		28,909	28,909	115,630
2-2 Turnout	type-it	1105	12	24,036	288,433		57,687	19,229	230,74
N.O. Osavilana	type-lit	nos	12	62,564	200,433		0	50,052	: 1
2-3 Regulator	type-li	nos		46,630	. 0		ő	37,304	: ,
	type-llr	nos			0		ő	64,585	· 1
2-4 Drop	type-la	nos		80,731 33,170	132,682		26,536	26,536	106,14
	type-lid	nos	4		132,032		20,550	52,159	100,14
2-5 Under Crossing	type-lu	nos		65,198	Ö		Ö.	48,485	
	type-Hu	nos		60,606	_		0	64,491	
2-6 Spillway	type-Iw	nos		80,613	0		0	32,245	
	type-ilw	nos		40,307	0		-	165,318	
2-7 Over Bridge	type-lo	nos		206,648	127.020		95 506		242.24
	type-lio	nos		106,982	427,929		85,586	85,586	342,34
2-8 Parshall Flume	type-ip	nos	_	18,312	. 0		0.457	14,649	and the second second
	type-llp	nos	l	12,283	12,283		2,457	9,826	9,82
2-9 Aqueduct	type-la	nos		2,906,525	- 0		0	2,325,220	
	type-lla	nos		25,167	0	5,033	0	20,134	00470
Sub-total					1,005,871		201,174		804,69
3. Canal Structure	es (Grade l	3) _†	: 100%			44.700	A .	264 024	
3-1 Intake	type-li	nos		333,543	0		. 0	266,834	
1.1	type-lli	nos		127,233	0		0	101,787	
3-2 Tumout	type-lt	nos	•	36,136	0		0	28,909	
	type-llt	nos	1 .	24,036	1 0		0	19,229	
3-3 Regulator	type-lr	nos		62,564	0224	* 7.72.32	10.663	50,052	716.27
	type-llr	nos	2	46,630	93,261		18,652	37,304	74,60
3-4 Drop	type-Id	nos		80,731	0		12.249	64,585	£ 2 61-
	type-lid	nos	. 2	33,170	66,341		13,268	26,536	53,07
3-5 Under Crossing	type-lu	nos		65,198	0	,-	0	52,159	107.03
-	type-llu	nos	4	60,606	242,423		48,485	48,485	193,93
3-6 Spillway	type-lw	nos		80,613	0		0	64,491	
	type-llw	nos	2	40,307	80,613		16,123	32,245	64,49
3-7 Over Bridge	type-lo	nos		206,648		41,330	0	165,318	•
: .	type-llo	nos		106,982	0		0	85,586	
3-8 Parshall Flume	type-lp	nos		18,312	0		0	14,649	100
!	type-llp	nos		12,283	.0		0	9,826	
3-9 Aqueduct	type-la	nos		2,906,525	. 0		0	2,325,220	
	type-lla	nos		25,167			. 0	20,134	
Sub-tota				•	482,638	k - 1 - 1	96,528	100	386,11
555 1014	-				•				
							789,270		3,157,07

App. 5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (11/20) Muruthawela LB

		Unit	Quantity	Lotal Co	ost (Rs)	Forein Cu	rrency (Ks)	Local Cur	rency (Ks)
Construction Wor	ks			Unit price		Unit price	Amount	Unit price	Amou
Canal Works									
	type-Bl	U)		3,607	0	721	0	2,885	
	type-Bll	m		2,984	0	597	0	2,388	
	type-Blll	m		2,754	0	551	0	2,203	
	type-BIV	m		2.413	0	483	0	1,931	•
	type-BV	m		2,010	0	402	0	1,608	-
	type-BVI	m		1,561	ŏ	312	Ó	1,249	•
			2,400	1,294	3,104,639	259	620,928	1,035	2,483,7
	type-BVII	m	2,400		_	86	020,720	344	2,400,4
	type-Ei	m		430	0		•		
	type-Ell	្តា		349	0	70	0	280	
	type-EIII	m		300	0	60	0	240	
	type-ElV	m		63	0	13	- 0	50	
Sub-total					3,104,639		620,928		2,483,7
. Canal Structure	s (Grade C	2)			[]				
	type-li	nos		333,543	0	66,709	Ű	266,834	
	type-lli	nos		127,233	ŏ	25,447	. ŏ	101,787	
			- 8	36,136	289,089		57,818	28,909	231,2
-2 Turnout	type-it	nos							
2 D L	type-llt	nos	25	24,036	600,902	4,807	120,180	19,229	480,7
-3 Regulator	type-ir	nos		62,564	0		0	50,052	
	type-llr	nos		46,630	0		. 0	37,304	
-4 Drop	type-Id	nos		80,731	. 0		0	64,585	
•	type-IId	nos	5	33,170	165,852	6,634	33,170	26,536	132,6
-5 Under Crossing		nos		65,198	0		0	52,159	·
· ·	type-IIu	nos		60,606	0		0	48,485	
-6 Spillway	type-lw	nos		80,613	ŏ		. Ŏ	64,491	
-0 Spillway			•	40,307	ŏ		ŏ	32,245	
7. 0	type-llw	nos			_				
-7 Over Bridge	type-lo	nos		206,648	0	,	0	165,318	422.0
	type-llo	nos	. 2	106,982	534,911	21,396		85,586	427,9
-8 Parshall Flume	type-lp	nos		18,312	0		0	14,649	
	type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,8
-9 Aqueduct	type-la	nos		2,906,525	0	581,305	. 0	2,325,220	
	type-lla	nos	to a second	25,167	0	5,033	. 0	20,134	
Sub-total					1,603,038		320,608	•	1,282,4
. Canal Structure		23	100%		********				.,
-1 Intake		nos	10070	333,543	0	66,709	0	266,834	1
-1 marc	type-li						ő	101,787	
0.00	type-lli	nos		127,233	0				
-2 Turnout	type-It	nos	4 1 4 1	36,136	0		0	28,909	11
	type-llt	nos	4	24,036	0		Ü	19,229	
-3 Regulator	type-Ir	nos		62,564	0		0		1.1
	type-IIr	nos	3.	46,630	139,891	9,326	27,978	37,304	111,9
4 Drop	type id	nos	t .	80.731	0		U		
	type-ild	nos	- 3	33,170	99,511		19,902	26,536	79.€
-5 Under Crossing		nos		65,198	0		0	52,159	
o onder crossing		nos	5	60,606	303,028		60,606	48,485	242,4
6 Calllage	type-llu		, ,		•		00,000		242,
6 Spillway	type-lw	nos		80,613	120.020			64,491	04.5
7 A 11	type-iiw	nos	3	40,307	120,920		24,184	32,245	96,7
-7 Over Bridge 🐬	type-Io	nos	1	206,648	0		.0	165,318	
	type-llo	nos		106,982	∷ 0		0	85,586	
-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	
-9 Aqueduct	type-la	nos		2,906,525	0		0	2,325,220	
	type-IIa	nos		25,167	Ŏ		Ŏ	20,134	
Sub-total	., ,, , , , , ,			20,000	663,351	5,000	132,670	20,101	530,6
Total					5,371,028	:	1,074,206		4,296,8
					-,,				

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (12/20) Muruthawela LB

	Canal	Unit	Quantity	Total Co	rst (Rs)	Forein Cure	rency (Rs)	Local Curr	
Construction We	orks		` '	Unit price	Amount	Unit price	Amount	Unit price	Amoui
Canal Works								5 40.5	
	type-B1	m		3,607	0	721	. 0	2,885	
	type-Bll	m		2,984	. 0	597	0	2,388	
	type-BIII	m		2,754	0	551	Ö	2,203	
	type-BIV	m		2,413	. 0	483	Ö	1,931	
	type BV	m		- 2,010	0	402	0	1,608	
	type-BVI	m		1,561	. 0	312	U	1,249	
	type-BVH	nı	2,700	1,294	3,492,719	259	698,544	1,035	2,794,17
	type-El	m		430	. 0	86	0	344	
	type-Eli	m		349	0	70	0	280	
	type-Elll	ni		300	0	60	0	240	
	type-EIV	m		63	0	13	0	50	
Sub-tota		***			3,492,719		698,544		2,794,1
and the second property of the second	es Wrade I	5							
Canal Structur Intake	type-li	nos		333,543	0	66,709	0	266,834	
1 marc	type-Ili	nos		127,233	Ü	25,447	0	101,787	
2 Turnout	type-it	nos	1	36,136	36,136	7,227	7,227	28,909	28,9
Z IUMOUL	type-lit	nos	38	24,036	913,371	4,807	182,674	19,229	730,6
2 Danulatas		nos		62,564	0		0	50,052	•
3 Regulator	type-lr type-llr	nos		46,630	Č		0	37,304	
4 Drop		nos		80,731	ŏ		Ō	64,585	4.
4 Drop	type-Id type-IId	1103	12	33,170	398,045	6,634	79,609	26,536	318,4
5 Hadas Constan	tuna In	nos	12	65,198	0		0	52,159	•
5 Under Crossing				60,606	ŏ		Ŏ	48,485	
C Cuillian	type-llu	nos		80,613	ŏ		i i ŏ	64,491	
6 Spillway	type-Iw	nos		40,307	ŏ	. * 4	Ď	32,245	
7 Ouar Deidaa	type-IIw	nos		206,648	ŏ		Ŏ.	165,318	
7 Over Bridge	type-lo	nos	7	106,982	748,876		149,775	85,586	599,1
U. Basshall Elizara	type-llo	nos	•	18,312	7-0,070		0	14,649	
8 Parshall Flume	type-lp	nos	1	12,283	12,283		2,457	9,826	9.8
D. Annad	type-llp	nos		2,906,525	12,203	*	2,100	2,325,220	
9 Aqueduct	type-ia	nos	;	25,167	ŭ		ŏ	20,134	
6.L	type-lla	nos		23,107	2,108,711		421,742		1,686,9
Sub-tota	() 	*Z ·	1000		2,100,711				
Canal Structur			. 100%	333,543	O	66,709	Ó	266,834	
-1 Intake	type-li	nos		127,233	ŏ		ŏ		4
O. Thursday	type-Ili	nos		36,136	ŏ		ŏ	28,909	
-2 Turnout	type-It	nos		24,036	ŏ		ŏ	19,229	
2 Deciler	type-lit	nos		62,564	ŏ		ŏ	50,052	
-3 Regulator	type-Ir	nos		46,630	. 0		0	37,304	
	type-llr	nos		80,731	. 0	1 1 1 1 1 1 1 1	ŏ	64,585	
4 Drop	type-id	nos	_ ~		66,341	1 - 6 - 6 -	13,268	26,536	53,0
	type-lld	nos		65,198	00,541		15,200	52,159	,
-5 Under Crossing	type-iu	nos			0		ŏ	48,485	
4 40 111	type-llu	nos		60,606	0		ŏ	64,491	
-6 Spillway	type-iw	nos		80,613	. (ŏ	32,245	
	type-liw	nos		40,307	· 0		ŏ	165,318	
-7 Over Bridge	type-lo	nos		206,648			0	85,586	
	type-llo	nos		106,982	6		0	14,649	
8 Parshall Flume		nos		18,312			ő	9,826	et in the
	type-Hp	nos		12,283	C		0	2,325,220	
-9 Aqueduct	type-ia	nos		2,906,525	C		Ů	20,134	
	type-lla	nos	•	25,167	(4,24)			20,134	53,0
Sub-tot	al				66,341	1 3 3	13,268		33,0
					5,667,771		1,133,554		4,534,7
Total									

App. 5.3-2 Construction Cost of Muruthawela Reservoir Scheme

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

Construction Works Canal Works (ype-Bit m			Unit	Quantity	Total Ci	ost (Rs)	Torest Cur	rency (Rs)	Local Curr	cur'à (172)
type-Bill m 2,984 0 597 0 2,885 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,413 0 483 0 1,931 type-Bill m 2,500 1,561 3,901,835 312 780,367 1,249 type-Bill m 1,294 0 259 0 1,035 type-Bill m 3,90 0 86 0 344 type-Bill m 3,90 0 70 0 280 type-Bill m 3,90 0 70 0 280 type-Bill m 3,90 0 70 0 240 type-Bill m 3,90 0 70 0 240 type-Bill m 3,901,835 780,367 3 3,121 Sub-total 3,901,835 780,367 3 3,121 Canal Structures (Grade C) 2 1 lntake type-li nos 333,543 0 66,709 0 266,834 type-Bill nos 3,901,835 780,367 3 3,121 type-Bill nos 36,136 0 7,227 0 28,909 type-Bill nos 36,136 0 7,227 0 28,909 type-Bill nos 36,256 0 12,513 0 50,035 type-Bill nos 46,630 0 9,326 0 37,304 type-Bill nos 80,731 0 16,146 0 64,585 2-5 Under Crossing type-Iu nos 65,198 0 13,040 0 52,159 2-6 Spillway type-Iu nos 80,613 0 16,123 0 64,491 type-Ilu nos 80,606 0 12,121 0 48,485 2-7 Over Bridge type-Iu nos 2,066,48 0 41,330 0 163,138 type-Ilu nos 40,307 0 8,661 0 32,245 2-9 Aqueduct type-In nos 12,283 12,283 2,457 2,457 9,826 2-9 Aqueduct type-In nos 24,036 0 4,807 0 101,787 2-9 Aqueduct type-In nos 24,036 0 7,227 0 28,909 3-3 Regulator type-In nos 24,036 0 7,227 0 28,909 3-3 Regulator type-In nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 3,236 0 3,304 type-Il	Construction Wo	rks		` .			Unit price	Amount	Unit price	Amou
type-Bill m 2,984 0 597 0 2,885 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,754 0 551 0 2,203 type-Bill m 2,413 0 483 0 1,931 type-Bill m 2,500 1,561 3,901,835 312 780,367 1,249 type-Bill m 1,294 0 259 0 1,035 type-Bill m 3,90 0 86 0 344 type-Bill m 3,90 0 70 0 280 type-Bill m 3,90 0 70 0 280 type-Bill m 3,90 0 70 0 240 type-Bill m 3,90 0 70 0 240 type-Bill m 3,901,835 780,367 3 3,121 Sub-total 3,901,835 780,367 3 3,121 Canal Structures (Grade C) 2 1 lntake type-li nos 333,543 0 66,709 0 266,834 type-Bill nos 3,901,835 780,367 3 3,121 type-Bill nos 36,136 0 7,227 0 28,909 type-Bill nos 36,136 0 7,227 0 28,909 type-Bill nos 36,256 0 12,513 0 50,035 type-Bill nos 46,630 0 9,326 0 37,304 type-Bill nos 80,731 0 16,146 0 64,585 2-5 Under Crossing type-Iu nos 65,198 0 13,040 0 52,159 2-6 Spillway type-Iu nos 80,613 0 16,123 0 64,491 type-Ilu nos 80,606 0 12,121 0 48,485 2-7 Over Bridge type-Iu nos 2,066,48 0 41,330 0 163,138 type-Ilu nos 40,307 0 8,661 0 32,245 2-9 Aqueduct type-In nos 12,283 12,283 2,457 2,457 9,826 2-9 Aqueduct type-In nos 24,036 0 4,807 0 101,787 2-9 Aqueduct type-In nos 24,036 0 7,227 0 28,909 3-3 Regulator type-In nos 24,036 0 7,227 0 28,909 3-3 Regulator type-In nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 7,235,220 type-Ilu nos 24,036 0 3,236 0 3,304 type-Il	Canal Works									
Ope-Bill m		type BI	m		3,607	0	721	. 0	2,885	
1		type-BH				0	597	0	2,388	
Open						0	551	0	2,203	
Vige-BV m 2,500 1,561 3,901,835 312 780,367 1,249 3,121						. 0		. 0	1.931	
type-BVI m 1,561 3,901,835 312 780,367 1,249 3,121 type-BVI m 1,294 0 259 0 1,035 type-BVI m 1,294 0 259 0 1,035 type-BVI m 1,294 0 259 0 1,035 type-BVI m 1,349 0 70 0 280 type-BVI m 349 0 70 0 240 type-BVI m 340 0 13 0 50 type-BVI m 340 0 13 0 50 type-BVI m 340 0 15,135 0 25,447 0 101,787 type-BVI m 340 0 7,227 0 28,909 type-BVI m 35 127,233 0 25,447 0 101,787 type-BVI m 35 24,036 841,263 4,807 168,253 19,229 67. 3 Regulator type-BVI m 35 24,036 841,263 4,807 168,253 19,229 67. 4 Drop type-BVI m 35 24,036 841,263 4,807 168,253 19,229 67. 4 Drop type-BVI m 340 0 16,146 0 64,585 type-BVI m 340 0 16,146 0 64,481 type-BVI m 340 0 16,123 0 64,491 type-BVI m 340 0 16,133 0 16,23 0 64,491 type-BVI m 340 0 16,133 0 16,23 0 64,491 type-BVI m 340 0 16,146 0 14,491 type-BVI m 340 0 16,146 0 1		type BV				0		. 0	1.608	
1				2.500		3 901.835		780.367		3,121,4
Vipe-EII m 349				2,.700						-,,
Sub-total					•	_		_		
Sub-total		type El				_				
Sub-total Sub-						_				
Sub-total Sub-							and the second second	_		
Canal Structures (Grade C)			ខា		63		13		30	3 131 4
Intake type-III nos 333,543 0 66,709 0 266,834						3,901,833	.1	180,307		3,121,4
127,233		es (Grade C)		222 5 42		** 000		277 024	
2 Turnout type-It nos 36,136 0 7,227 0 28,909 type-It nos 35 24,036 841,263 4,807 168,253 19,229 672 38,000 type-It nos 62,564 0 12,513 0 50,052 type-It nos 46,630 0 9,326 0 37,304 4,807 type-It nos 80,731 0 16,146 0 64,585 type-It nos 65,198 0 13,040 0 52,159 type-It nos 60,606 0 12,121 0 48,485 1,66 Spillway type-Iw nos 60,606 0 12,121 0 48,485 1,66 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-It nos 206,648 0 41,330 0 165,318 type-It nos 10 106,982 1,069,822 21,396 213,964 85,586 852 1,969,822 21,396 1,969,822	I Intake		nos							
19		type-lli	nos	•		_		_		
Spellator Spel	2 Turnout		nos			_				
Regulator Vype-Ir nos 62,564 0 12,513 0 50,052			nos	35	24,036	841,263		168,253		673,0
type-IIr nos 46,630 0 9,326 0 37,304	3 Regulator				62,564	0		_		
4 Drop Vype-Id nos 80,731 0 16,146 0 64,585 17,000				•	46,630	0		0		
Type-IId Nos 14 33,170 464,386 6,634 92,877 26,536 37 37 37 38 38 38 38 38	4 Drop				80.731	0	16,146	0	64,585	
5 Under Crossing type-Iu nos type-Ilu nos 65,198 0 13,040 0 52,159 type-Ilu nos 60,606 0 12,121 0 48,485 6 Spillway type-Ilw nos 80,613 0 16,123 0 64,491 type-Ilw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-Ilo nos 10 106,982 1,069,822 21,396 213,964 85,586 85; 8 Parshall Flume type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 1 12,283 12,83 2,457 2,457 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134 Canal Structures (Grade B) : 100% 1 Intake type-II nos 127,233 0 25,447 0 101,787 1,911 nos 127,233 0 25,447 0 101,787 1,911 nos 36,136 0 7,227 0 28,909 type-Ilt nos 36,136 0 7,227 0 28,909 type-Ilt nos 36,136 0 7,227 0 28,909 type-Ilt nos 46,630 0 9,326 0 37,304 1,912 1,912 1,913 1,914 1,915 1,9	· Diop			14		464.386	6,634	92,877	26,536	371,5
type-Ilu nos 60,606 0 12,121 0 48,485 6 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-Ilw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-Ilo nos 10 106,982 1,069,822 21,396 213,964 85,586 85; 8 Parshall Flume type-Ip nos 112,283 12,283 2,457 2,457 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134	S. Under Crossing						13.040		52,159	·
6 Spillway type-Iw nos type-Iw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 8 Parshall Flume type-Ip nos 10,06982 1,069,822 21,396 213,964 85,586 85; 8 Parshall Flume type-Ip nos 11,283 12,283 2,457 2,457 9,826 9 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220	o officer crossing					•		0		
1	6 Spillway							_		
7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-llo nos 10 106,982 1,069,822 21,396 213,964 85,586 85; 8 Parshall Flume type-lp nos 18,312 0 3,662 0 14,649 1ype-llp nos 1 12,283 12,283 2,457 2,457 9,826 9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 2,387,754 2	о эршиау						,	-		
Substitute Specific Specifi	7. Ouer Bridge							_		1.
8 Parshall Flume type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 1 12,283 12,83 2,457 2,457 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134 Sub-total 2,387,754 477,551 1,916 Canal Structures (Grade B) : 100% 1 101,787 1 101,7	over anuge			. 10		_		-		855,8
type-lip nos 1 12,283 12,283 2,457 2,457 9,826 19 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lia nos 25,167 0 5,033 0 20,134 1,916 Canal Structures (Grade B) : 100% I Intake type-li nos 333,543 0 66,709 0 266,834 type-lii nos 127,233 0 25,447 0 101,787 0 19,229 1,916 1,005 24,036 0 7,227 0 28,909 1,926 1,100 1,927 0 1,929 1,929 1,929 1,929 1,929 1,929 1,938 1	0.18.1.10.00			10						055,0
Page Aqueduct type-la nos 2,966,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 2,387,754 477,551 1,916 Canal Structures (Grade B) : 100%	-8 Parshall Flume							_		9,8
Sub-total 2,387,754 477,551 1,916				J						7,0
Sub-total Canal Structures (Grade B) : 100% : 100	-9 Aqueduct									
Canal Structures (Grade B) : 100% 1 Intake type-li nos 333,543 0 66,709 0 266,834 type-lli nos 127,233 0 25,447 0 101,787 2 Turnout type-lt nos 36,136 0 7,227 0 28,909 type-llt nos 24,036 0 4,807 0 19,229 3 Regulator type-lr nos 62,564 0 12,513 0 50,052 type-llr nos 46,630 0 9,326 0 37,304 4 Drop type-ld nos 80,731 0 16,146 0 64,585 type-lld nos 3 33,170 99,511 6,634 19,902 26,536 76 5 Under Crossing type-lu nos 65,198 0 13,040 0 52,159 type-llu nos 60,606 0 12,121 0 48,485 (19,000 10,12) 6 Spillway type-lu nos 80,613 0 16,123 0 64,491 type-llu nos 40,307 0 8,061 0 32,245 (19,000 10,12) 7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-llo nos 106,982 0 21,396 0 85,586 (19,000 10,12) 8 Parshall Flume type-lp nos 18,312 0 3,662 0 14,649 type-llp nos 12,283 0 2,457 0 9,826 (19,000 10,134 10,130 10,134 10,130 10,134 10,130 10,134 10,130 10,134 10,130 10,134 10,130 10,134 10,130 10,134 10,130 10,134			nos		25,167		3,033		20,134	1.010.2
Intake					· · · · · · · · · · · · · · · · · · ·	2,381,734		477,551		1,910,2
type-Ili nos 127,233 0 25,447 0 101,787 2 Turnout type-It nos 36,136 0 7,227 0 28,909 type-Ilt nos 24,036 0 4,807 0 19,229 3 Regulator type-Ir nos 62,564 0 12,513 0 50,052 type-Ilr nos 46,630 0 9,326 0 37,304 4 Drop type-Id nos 80,731 0 16,146 0 64,585 type-Ild nos 3 33,170 99,511 6,634 19,902 26,536 7 5 Under Crossing type-Iu nos 65,198 0 13,040 0 52,159 type-Ilu nos 60,606 0 12,121 0 48,485 6 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-Ilw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-Ilo nos 106,982 0 21,396 0 85,586 8 Parshall Flume type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 12,283 0 2,457 0 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134 Sub-total	Canal Structure	cs (Grade I	3)	: 100%			4 4 500		044.034	
2 Turnout type-lt nos 36,136 0 7,227 0 28,909 type-lt nos 24,036 0 4,807 0 19,229 3 Regulator type-lr nos 62,564 0 12,513 0 50,052 type-llr nos 46,630 0 9,326 0 37,304 4 Drop type-ld nos 80,731 0 16,146 0 64,585 type-lld nos 3 33,170 99,511 6,634 19,902 26,536 7 5 Under Crossing type-lu nos 65,198 0 13,040 0 52,159 type-llu nos 60,606 0 12,121 0 48,485 type-llw nos 80,613 0 16,123 0 64,491 type-llw nos 40,307 0 8,061 0 32,245 (7) 7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-llo nos 106,982 0 21,396 0 85,586 (8) Parshall Flunie type-lp nos 18,312 0 3,662 0 14,649 type-lp nos 12,283 0 2,457 0 9,826 (9) Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total	I Intake		nos							
type-lit nos 24,036 0 4,807 0 19,229 3 Regulator type-ir nos 62,564 0 12,513 0 50,052 type-lir nos 46,630 0 9,326 0 37,304 4 Drop type-lid nos 80,731 0 16,146 0 64,585 type-lid nos 3 33,170 99,511 6,634 19,902 26,536 7 5 Under Crossing type-lu nos 65,198 0 13,040 0 52,159 type-liu nos 60,606 0 12,121 0 48,485 6 Spillway type-iw nos 80,613 0 16,123 0 64,491 type-liw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-lio nos 106,982 0 21,396 0 85,586 8 Parshall Flunie type-ip nos 18,312 0 3,662 0 14,649 type-lip nos 12,283 0 2,457 0 9,826 9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lia nos 25,167 0 5,033 0 20,134 Sub-total		type-lli						· ·		
3 Regulator type-Ir nos 62,564 0 12,513 0 50,052 type-IIr nos 46,630 0 9,326 0 37,304 4 Drop type-Id nos 80,731 0 16,146 0 64,585 type-IId nos 3 33,170 99,511 6,634 19,902 26,536 79 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 6 59illway type-Iw nos 80,613 0 16,123 0 64,491 type-IIw nos 40,307 0 8,061 0 32,245 70 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-IIo nos 106,982 0 21,396 0 85,586 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 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	2 Turnout	type-lt	nos					-		1 1 -
3 Regulator type-Ir nos 62,564 0 12,513 0 30,052	production of the second	type-lit	nos							1 1 1
type-IIr nos 46,630 0 9,326 0 37,304 4 Drop type-Id nos 80,731 0 16,146 0 64,585 type-IId nos 3 33,170 99,511 6,634 19,902 26,536 7 -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 -6 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-IIw nos 40,307 0 8,061 0 32,245 -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 -8 Parshall Flunie type-Ip nos 18,312 0 3,662 0 14,649 type-IIp nos 12,283 0 2,457 0 9,826 -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	3 Regulator		nos					4.4		
14 Drop type-Id nos 80,731 0 16,146 0 64,585 type-Ild nos 3 33,170 99,511 6,634 19,902 26,536 79 16,634 19,902 26,536 79 17 18 18 18 18 18 18 18 18 18 18 18 18 18			nos		46,630					
type-IId nos 3 33,170 99,511 6,634 19,902 26,536 76 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 6 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-IIw nos 40,307 0 8,061 0 32,245 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 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 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	4 Drop	type-ld	nos	\$ 1						
-5 Under Crossing type-lu nos type-lu nos type-lu nos 65,198 0 13,040 0 52,159 type-llu nos 60,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 48,485 0,606 0 12,121 0 16,231 0 16,318 0 16,318 0 165,318 0 165,318 0 165,318 0 165,318 0 165,318 0 165,318 0 166,982 0 166,982 0 166,982 0 166,491 0 166,982 0 1		type-lld	nos	3	4 33,170	99,511	6,634	19,902		79,0
type-Ilu nos 60,606 0 12,121 0 48,485 6 Spillway type-Iw nos 80,613 0 16,123 0 64,491 type-Ilw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-Ilo nos 106,982 0 21,396 0 85,586 8 Parshall Flume type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 12,283 0 2,457 0 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134 Sub-total	5 Under Crossing				65,198	0	13,040	. 0	52,159	1000
6 Spillway type-Iw nos type-Iw nos type-Iw nos type-Ilw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-Io nos 206,648 0 41,330 0 165,318 type-Ilo nos 106,982 0 21,396 0 85,586 8 Parshall Flume type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 12,283 0 2,457 0 9,826 9 Aqueduct type-Ia nos 2,906,525 0 581,305 0 2,325,220 type-Ila nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7						0	12,121	. 0	48,485	
type-llw nos 40,307 0 8,061 0 32,245 7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-llo nos 106,982 0 21,396 0 85,586 8 Parshall Flume type-lp nos 18,312 0 3,662 0 14,649 type-lip nos 12,283 0 2,457 0 9,826 9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7	6 Spillway	type-Iw				U	16,123	0	64,491	100
-7 Over Bridge type-lo nos 206,648 0 41,330 0 165,318 type-llo nos 106,982 0 21,396 0 85,586 -8 Parshall Flume type-lp nos 18,312 0 3,662 0 14,649 type-llp nos 12,283 0 2,457 0 9,826 -9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7		type-llw				0		0	32,245	
type-llo nos 106,982 0 21,396 0 85,586 8 Parshall Flume type-lp nos 18,312 0 3,662 0 14,649 type-llp nos 12,283 0 2,457 0 9,826 9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7	7 Over Bridge									1
-8 Parshall Flune type-Ip nos 18,312 0 3,662 0 14,649 type-Ilp nos 12,283 0 2,457 0 9,826 -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 99,511 19,902 7	. Otta Dilogo									
type-llp nos 12,283 0 2,457 0 9,826 9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7	8 Parshall Fluma									
9 Aqueduct type-la nos 2,906,525 0 581,305 0 2,325,220 type-lla nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7	o raismanti millo						2 457			
type-IIa nos 25,167 0 5,033 0 20,134 Sub-total 99,511 19,902 7	0 Aguaduot									
Sub-total 99,511 19,902 7	-3 Adagaaci							_		
	0.1.		1105		23,107				20,107	79,0
Z 190 100 1 1 277 920 5 11	Sub-lota	il '				77,311		13,502		
						∠ 204 104		1,277,820		5,111,2

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (14/20) Muruthawela LB

		Unit	Quantity	Total Co	ost (Rs)	Forein Cur	rency (Rs)	Local Curre	ency (Rs)
Construction Wo	orks		,	Unit price	Amount	Unit price	Amount	Unit price	Amou
. Canal Works									
	type-Bl	m		3,607	0	721	0	2,885	
	type-BII	m	1	2,984	0	597	0	2,388	
	type-BIII	m		2,754	0	551	0	2,203	
	type BIV	m		2,413	0	483	0	1,931	
	type-BV	m		2,010	0	402	0	1,603	
	type-BVI	m		1,561	0	312	0	1,249	100
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,9
	type-El	m		430	0	86	0	344	
	type Ell	m		349	0	70	0	280	
	type-EIII	ומ		300	Ó	60	. 0	240	
	type-EIV	m		63	Ö	13	0	50	:
Sub-tota				0,5	517,440		103,488		413,9
. Canal Structur		· ·							
				333,543	0	66,709	0	266,834	
-1 Intake	type-li	nos		127,233	ŏ	25,447	ŏ	101,787	
2 Tuescut	type-lli	nos		36,136	ŏ		ŏ	28,909	
-2 Turnout	type-It	nos	. 9	24,036	216,325	4,807	43,265	19,229	173,0
2 D 1	type-llt	nos	9	62,564	210,323	12,513	43,203	50,052	17.5,0
-3 Regulator	type ii	nos			. 0	9,326	ŏ	37,304	
4.5	type-lli	nos	•	46,630	. 0		ŏ	64,585	
-4 Огор	type-Id	nos		80,731		16,146	•	26,536	26,5
	type-lld	nos	1	33,170	33,170		6,634		20,.
-5 Under Crossing		nos		65,198	0	13,040	12.121	52,159	40 4
	type-IIu	nos	1	60,606	60,606		12,121	48,485	48,4
-6 Spillway	type-Iw	nos	7	80,613	11.0	,	0	64,491	
	type-llw	nos		40,307	0		0	32,245	
-7 Over Bridge	type-Io	nos		206,648	0		0	165,318	
	type-llo	nos		106,982	0		0	85,586	
-8 Parshall Flume	type-lp	nos		18,312	0		0	14,649	
	type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,8
-9 Aqueduct	type-ia	nos	100	2,906,525	0	581,305	0	2,325,220	
	type-ila	nos		25,167	0	,	0	20,134	0.50
Sub-tota				4.5	322,384		64,477		257,9
. Canal Structur	es (Grade H	3)	: 100%						
- Intake '	type-li	nos		333,543	0		0	266,834	1
	type-lli	nos		127,233	0		0	101,787	: ;
-2 Turnout	type-lt	nos	:	36,136	. 0		0	28,909	
*	type-lit	nos	6.14	24,036	- 10		0	19,229	
-3 Regulator	type-Ir	nos	6 1 To 1	62,564	. 0	12,513	0	50,052	
	type-llr	nos		46,630	0		0	37,304	
-4 Drop	type-ld	nos		80,731	0	16,146	. 0	64,585	
	type-lld	nos	1	33,170	0	6,634	: 0	26,536	
-5 Under Crossing		nos		65,198	0	13,040	Q	52,159	
	type-llu	nos		60,606	. 0		0	48,485	:
-6 Spillway	type-lw	nos		80,613	0	16,123	0	64,491	
6	type-llw	nos		40,307	. 0	8,061	0	32,245	
-7 Over Bridge	type-lo	nos		206,648	0		0	165,318	
	type-llo	nos		106,982	. 0		0	85,586	
8 Parshall Flume	type-Ip	nos	*	18,312	Ŏ		0	14,649	
o raisian maile	type-lip	nos		12,283	. ŏ		Ŏ	9,826	
-9 Aqueduct	type-IIp	nos		2,906,525	· ŏ		ŏ	2,325,220	
-> Aqueuvet	type-lla	005		25,167	ŏ		: 0	20,134	
Sub-tota		1203		23,101	ŏ		ŏ		
300-tota			1		v		J		100
: Total			*		839,824		167,965	i .	671,8

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (15/20) Muruthawela LB

1-16 Tract III, D-4	Canal	1 le it	Quantity	Total Co	et (Rs)	Forein Curr	ency (Rs)	Local Curre	ncy (Rs)
Construction Wo	orks	onn	Quarrity	Unit price		Unit price	Amount	Unit price	Amoun
. Canal Works									
. Canal riving	type-Bi	m		3,607	0	721	. 0	2,885	(
	type-Bll	n		2,984	0	597	0	2,388	(
	type-BIII	nı		2,754	0	551	0	2,203	(
	type-BIV	m		2,413	0	483	0	1,931	(
	type-BV	m		2,010	0	402	0	1,608	
	type-BVI	וח		1,561	. 0	312	0	1,249	
	type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,92
	type El	m	•	430	Û	86	0	344	
	type-Ell	នា		349	0	70	0	280	
	type-EllI	m		300	0	60	0	240	
	type-EIV	m		63	0	13	0	50	
Sub-tota		13.6			776,160		155,232		620,92
2. Canal Structur		· · · · · ·			. ,				
		nos		333,543	0	66,709	0	266,834	
2-1 Intake	type-li type-lli	nos		127,233	ŏ	25,447	0	101,787	
2.2 Turneut	type-It	nos		36,136	ŏ	7,227	Õ	28,909	
2-2 Turnout		nos	6	24,036	144,217	4,807	28,843	19,229	115,37
2.2 Danulator	type-lit type-Ir	nos	Ų	62,564	0		20,0 10	50,052	• -
2-3 Regulator		nos		46,630	ŏ		Ŏ	37,304	
2.4 Dran	type-llr	nos		80,731	: 0		0	64,585	
2-4 Drop	type-Id type-IId	nos	. 8	33,170	265,363		53,073	26,536	212,29
2-5 Under Crossing	type-nu		-	65,198	0		0	52,159	
2-3 Under Crossing	type-IIu	nos nos		60,606	Ŏ		0	48,485	
O. C. Callings		nos		80,613	ŏ		Ö	64,491	
2-6 Spillway	type-Iw			40,307	ŏ		. 0	32,245	
a a Ouis Daldas	type-llw type-lo	nos nos		206,648	ŏ		. 0	165,318	
2-7 Over Bridge		nos		106,982	ō		0	85,586	
2-8 Parshall Flume	type-llo type-lp	nos		18,312	. ŏ		0	14,649	
2-6 Parshan Fluide	type-lip	nos		12,283	12,283		2,457	9,826	9,8
2 D. Aguaduct	type-la	nos		2,906,525	0		0	2,325,220	3
2-9 Aqueduct	type-la	nos		25,167	ď		0	20,134	
Sub-tot		поз	,	23,107	421,863		84,373		337,49
		RV -	: 100%	- 10 - <u></u>					
3. Canal Structu 3-1 Intake	type-li	inos		333,543	C	66,709	0	266,834	
2-1 DROVE	type-lli	nos		127,233	O		0	101,787	
3-2 Turnout	type-lt	nos		36,136	Ō		0	28,909	
3-2 Tuniout	type-llt	nos		24,036	Č		0	19,229	
3-3 Regulator	type-lr	nos		62,564			. 0	50,052	
3-3 Regulator	type-llr	nos	1	46,630			0	37,304	
3-4 Drop	type-Id	nos		80,731	(0	64,585	1. 1
J-4 DIUP	type-IId	nos		33,170	33,170		6,634	26,536	26,5
3-5 Under Crossing		nos		65,198	(0	52,159	
3-3 Officer Crossing	type-llu	nos		60,606	· ·		0	48,485	
3-6 Spillway	type-lw	nos		80,613		16,123	0	64,491	
o o opinina)	type-llw	nos		40,307	_	8,061	0	32,245	
3-7 Over Bridge	type-lo	nos		206,648	and the second second	41,330	0	165,318	
2. Cutta punde	type-llo	nos		106,982		21,396	. 0		
3-8 Parshall Flume	type-lp	nos		18,312			0	14,649	
D-O LOISHAILTIONIC	type-lip	no:	A CONTRACTOR OF THE PARTY OF TH	12,283	A CONTRACTOR OF THE PROPERTY O	2,457	0	9,826	•
3-9 Aqueduct	type-la	no		2,906,525		581,305	0		
3-3 Aduconce	type-lla	no		25,167		5,033	0	20,134	
Sub-to	. Gpo-ma lal	110.	•	25,107	33,170		6,634		26,5
	.4.1				,				•
300 (0									

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme
- Muruthawela LB Scheme - (16/20) Muruthawela LB

	7 Tract III, D-5		Unit	Quantity	Total Co	st (Rs)	Forein Cur	rency (Rs)	Local Com	ency (Rs)
	Construction Wo	ıks		·	Unit price		Unit price	Amount	Unit price	Amour
١. `	Canal Works						,,			
		type-Bl	m		3,607	0	721	0	2,885	
		type-Bll	m		2,984	0	597	0	2,388	
		type-BIII	m		2,754	0	551	Q	2,203	
		type-BIV	m		2,413	0	483	0	1,931	
		type-BV	ni -		2,010	- 0	402	0	1,608	
		type-BVI	m		1,561	. 0	312	0	1,249	
		type-BVII	ំខា	400	1,294	517,440	259	103,488	1,035	413,95
		type-El	m		430	0	86	0	344	
		type-Ell	m		349	0	70	0	280	
		type-EIII	m		300	0	60	. 0	240	-
	•	type-EIV	m		63	. 0	13	0	50	
	Sub-total					517,440		103,488		413,95
2.	Canal Structure		2)					•		
2-1	Intake	type-li	nos		333,543	0	66,709	0	266,834	
		type-lli	nos		127,233	0	25,447	0	- 101,787	
2-2	Turnout	type-It	nos		36,136	0	. ,	. 0	28,909	
_		type-Ilt	nos	- 9	24,036	216,325	4,807	43,265	19,229	173,06
2-3	Regulator	type-ir	nos		62,564	O		. 0	50,052	
		type-llr	nos		46,630	0	9,326	. 0	37,304	
2-4	Drop	type-Id	nos		80,731	0		0	64,585	
	F	type-IId	nos	3	33,170	99,511	6,634	19,902	26,536	79,60
2-5	Under Crossing		nos		65,198	0		0	52,159	
	J	type-llu	nos		60,606	0	12,121	. 0	48,485	
2-6	Spillway	type-Iw	nos	6.3	80,613	0	16,123	0	64,491	•
	~ [type-llw	nos		40,307	0		0	32,245	•
2-7	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	
	o to brings	type-lio	nos	4	106,982	427,929		85,586	85,586	342,34
2-8	Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649	:
		type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,82
2-9	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	
		type-lla	nos		25,167	0	5,033	0.	20,134	1 .
	Sub-tota					756,048		151,210		604,83
3.	Canal Structure		3)	: 100%	100	4				
3-1	Intake	type-li	nos	1	333,543	0		0		1 14 1 15
1		type-Ili	nos	, ;	127,233	: 0		0		
3-2	Turnout	type-lt	nos		36,136	0		0	28,909	
	15 (4)	type-lit	nos	* * *	24,036	0		0		
3-3	Regulator	type-lr	nos		62,564	0		. 0	50,052	
:		type-llr	nos		46,630	0		0	37,304	1 1
3-4	Drop	type-Id	nos		80,731	: : 0		0	64,585	
		type-IId	nos	1	33,170	33,170		6,634	26,536	26,5
3-5	Under Crossing		nos		65,198	0		0	52,159	
	Ť	type-llu	nos		60,606	: 0		. 0	48,485	
3-6	Spillway	type-lw	nos		80,613	0		. 0	64,491	
		type-llw	nos		40,307	0		. 0	32,245	
3-7	Over Bridge	type-lo	nos		206,648	0		0	165,318	
	-	type-llo	nos		106,982	0		0	85,586	•
3-8	Parshall Flume	type-Ip	nos		18,312	0		0	14,649	
		type-llp	nos		12,283	: 0		0	9,826	
3-9	Aqueduct	type-Ia	nos		2,906,525	0		0	2,325,220	
		type-IIa	поѕ		25,167	0		0	20,134	نہ دیمل
	Sub-tota					33,170	,	6,634		26,53
		1								
	Total					1,306,658		261,332		1,045,32

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (17/20)

M-1	18 Tract III, D-6	Canal								
	Constanting Wa	1	Unit	Quantity		ost (Rs)		rrency (Rs)	Local Curr	• 1.
	Construction Wo	DIKS			Unit price	Amount	Unit price	Amount	Unit price	Amount
1.	Canal Works	turns DI			2 (1)7	^	221	0	d one	n
		type-BI	m		3,607	0	721	0	2,885	0
		type-BH	m		2,984	0	597	0	2,388	0
		type-BIII	Li)		2,754	0	551	0	2,203	Q
		type-BIV	m		2,413	0	483	0	1,931	0
		type-BV	អា		2,010	0	402	Ö	1,608	0
		type-BVI	m		1,561	0	312	0	1,249	0
		type-BVII	111	1,300	1,294	1,681,680	259	336,336	1,035	1,345,344
		type-El	E)	4	430	. 0	86	0 -	344	0
		type-Ell	m		349	0	70	0	280	0
		type-EllI	m		300	. 0	60	. 0	240	0
		type-EIV	m		63	0	13	0	50	0
	Sub-total	1				1,681,680		336,336		1,345,344
2.	Canal Structure	es (Grade C	.)					. er e e e e e e e e e e e e e e e e e e		
2-1	Intake	type-li	nos		333,543	0	66,709	0	266,834	Ü
		type-lli	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	10	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-llr	nos		46,630	Ö	9,326	ŏ	37,304	ŏ
2-4	Drop	type-ld	nos		80,731	ŏ	16,146	· ŏ	64,585	ŏ
- •		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536	26,536
2-5	Under Crossing		nos	•	65,198	0	13,040	0,054	52,159	20,336
	Onder Crossing	type-llu	nos		60,606	ŏ	12,121	Ď	48,485	ő
2.6	Spillway	type-Iw	nos		80,613	ŏ	16,123	Ö	64,491	0
	Opininay	type-IIw	nos		40,307	0	8,061	ŏ	32,245	0
2.7	Over Bridge	type-Io	nos		206,648	ő	41,330	ŏ	165,318	0
2 1	Ottrininge				106,982	106,982				_
2 8	Parshall Flume	type-llo type-lp	nos		18,312	100,982	21,396 3,662	21,396	85,586	85,586
2-0	r arsnam r rame		nos	1				2.457	14,649	0 0 0 0 0
2.0	Acuadust	type-llp type-la	nos		12,283	12,283	2,457	2,457	9,826	9,826
2-7	Aqueduct		nos		2,906,525	0	581,305	. 0	2,325,220	0
	Sub-total	type-lla	nos		25,167	202.706	5,033	79.550	20,134	0
2			N + 0	: 100%		392,796	a tagaşı	78,559		314,237
3.	Canal Structure		-	10070	222 542		44.700		244 924	·
3*1	Intake	type-li	nos		333,543	0	66,709	0	266,834	0
. 2 3	Turnout	type-lli	nos		127,233	0	25,447	0	101,787	. 0
)-Z		type-lt	nos		36,136	0	7,227	0	28,909	0
2 2		type-llt	nos		24,036	0	4.807	0	19,229	0
3-3	Regulator	type-ir	nos		62,564	0	12,513		50,052	0
2.4	Design	type-llr	nos	1 1	46,630	0	9,326	0	37,304	0
3-4	Drop	type-ld	nos		80,731	0	16,146	0	64,585	0
2.5		type-IId	nos		33,170	0	6,634	0	26,536	. 0
3-3	Under Crossing		nos		65,198	0	13,040	0	52,159	. 0
	0.30	type-llu	nos	. 1	60,606	60,606	12,121	12,121	48,485	48,485
3-0	Spillway	type-lw	nos		80,613	0	16,123	. 0	64,491	0
2 5	0 0 1	type-llw	nos		40,307	0	8,061	0	32,245	0
5-1	Over Bridge	type-lo	noș		206,648	0	41,330	0		0
	D 1 11 77	type-llo	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-la	nos		2,906,525	0	581,305	0	2,325,220	0
٠.		type-IIa	nos		25,167	0	5,033	0	20,134	. 0
	Sub-total	1 .				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) Murothawela LB

M-1	9 Tract III, D-7	Canal						(0-)		and (Da)
			Unit	Quantity	Total Co		Forein Cur	-	Local Curr	_
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amount
1.	Canal Works				0.407	. 0	221	л	2006	Δ
		type-Bl	ជា		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	9	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	លា	1,700	1,294	2,199,119	259	439,824	1,035	1,759,295
		type-EI	Đ1	,	430	0	86	• 0	344	0
		type-Ell	m		349	0	70	0	280	0
		type-EllI	m		300	0	60	Ü	240	0
		type-ElV	m		63	. 0	13	0	50	0
	Sub-total		131			2,199,119		439,824		1,759,295
2.	Canal Structure		5							• • • • • • • • • • • • • • • • •
	Intake	type-li	nos		333,543	0	66,709	0	266,834	0
۲-۱	IGIGAC	type-Ili	nos		127,233	Ů		0	101,787	0
2.3	Turnout				36,136	ŏ		Ď	28,909	Ō
2-2	Turnout	type-It	nos	12	24,036	288,433		57,687	19,229	230,746
		type-lit	nos	12	62,564	200,435		0	50,052	0
Z-3	Regulator	type-lr	nos			ŏ		ŏ	37,304	ŏ
1 1		type-llr	nos		46,630	ŏ		ŏ	64,585	ŏ
2-4	Drop	type-Id	nos		80,731	_		-	26,536	106,145
		type-IId	nos	4	33,170	132,682	6,634	26,536		0
2-5	Under Crossing	type-Iu	nos		65,198	0	,	0	52,159	0
14		type-llu	nos		60,606	0		0	48,485	1.1
2-6	Spillway	type-lw	nos		80,613	0		0	64,491	0
		type-IIw	nos		40,307	0		0	32,245	0
2-7	Over Bridge	type-lo	nos		206,648	0		0	165,318	0
	· -	type-llo	nos	4	106,982	427,929		85,586	85,586	342,343
2.8	Parshall Flume	type-ip	nos		18,312	0		0	14,649	0
		type-lip	nos	i	12,283	12,283		2,457	9,826	9,826
2-9	Aqueduct	type-la	nos		2,906,525	. 0		0	2,325,220	: Q
	•	type-lla	nos		25,167	0	- • - ;	0	20,134	0
	Sub-total			1.3		861,327	':	172,265		689,061
3.	Canal Structure	es (Grade 1	3)	: 100%					044 413 4	
3-1	Intake	type-li	nos		333,543	0		0	266,834	0
		type-Ili	nos		127,233	0		0	101,787	0
3-2	Turnout	type-It	nos	. :	36,136	0		0	28,909	0
		type-lit	nos	1	24,036	0		0	19,229	0
3-3	Regulator	type-ir	nos		62,564	C		0	50,052	24.400
	and the second	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,609
3.4	Drop	type-ld	nos		80,731	0	-,	0	64,585	50.073
		type-lld	nos	2	33,170	66,341		13,268	26,536	53,073
3-5	Under Crossing	type-lu	nos		65,198	. 0		0	52,159	0
		type-llu	nos	4	60,606	242,423	12,121	48,485	48,485	193,938
3-6	Spillway	type-iw	nos		80,613	O		0	64,491	0
		type-ilw	nos	2	40,307	80,613	8,061	16,123	32,245	64,491
3-7	Over Bridge	type-lo	nos		206,648		41,330	. 0		0
1		type-llo	поѕ		106,982	. 0		0	85,586	0
3.8	Parshall Flume	type-lp	nos		18,312		3,662	0		0
J-0	- aronarr r tunio	type-llp	nos		12,283			0	9,826	9 9
2.0	Aqueduct	type-Ia	nos		2,906,525	0		0	2,325,220	0
3.7	requessors	type-Ila	nos		25,167	ď		0	20,134	0
	Sub-tota	.σρυ-11α }				482,638		96,528		386,110
	500 1011	· - ,								
	Total	·				3,543,084	<u> </u>	708,617		2,834,467

App.5.3-2 Construction Cost of Muruthawela Reservoir Scheme

- Muruthawela LB Scheme - (19/20)

	**		Unit	Quantity		ost (Rs)	Forein Cur	-	Local Curr	•
~ —	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amoun
1.	Canal Works	type-Bl	DA.		3,607	0	721	0	2,885	(
		type-Bll	m		2,984	ŏ	597	Õ	2,388	Ò
					2,754	ŏ	551	ő		i
		type-BIII	m		2,734	· ŏ	483	ő	2,203 1,931	Ò
,		type-BIV	m		2,413	ŏ	402	. 0		
		type-BV	m					_	1,608	
		type-BVI	m	ėnn.	1,561	1 024 980	312	206.076	1,249	ຍາສຸດທ
		type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,90
		type-El	m		430	0	86	0	344	
		type-Ell	m		349	0	: 70	. 0	280	
		type-Elli	m		300	0	60	0	240	
	0.1.4.4.1	type-EIV	m		63	0	13	0	50	
<u>.</u>	Sub-total		**			1,034,880		206,976		827,90
2.	Canal Structure				030 640		***			
2-1	Intake	type-fi	nos		333,543	0	66,709	0	266,834	-
		type-lli	nos	_	127,233	0	25,447	0	101,787	04.55
2-2	Turnout	type-it	nos	3	36,136	108,409	7,227	21,682	28,909	86,72
		type-lit	nos	8	24,036	192,289	4,807	38,458	19,229	153,83
2-3	Regulator	type-lr	nos		62,564	0	12,513	0	50,052	
<u>.</u> .		type-llr	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	3	33,170	99,511	6,634	19,902	26,536	79,60
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		40,307	0	8,061	0	32,245	•
2-7	Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318	(
4.5		type-llo	nos		106,982	. 0	21,396	0	85,586	
2-8	Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649	: ' (
	e je	type-llp	nos	1.1	12,283	12,283	2,457	2,457	9,826	9,820
2-9	Aqueduct	type-Ia	nos		2,906,525	. 0	581,305		2,325,220	
	12.2	type-lla	nos	÷ .	25,167	0	5,033	0	20,134	
:.	Sub-total					412,491		82,498		329,993
3,	Canal Structure		3)	: 100%			•			
3-1	Intake	type-li	nos		333,543	0	66,709	0 :	266,834	(
		type-lli	nos		127,233	0	25,447	0	101,787	· · · · · · · · · · · · · · · · · · ·
3-2	Turnout	type-lt	nos		36,136	0	7,227	0	28,909	(
		type-Ilt	nos		24,036	0	4,807	0	19,229	·
3-3	Regulator	type-ir	nos		62,564	. 0	12,513	0	50,052	
		type IIr	nos	1	46,630	46,630	9,326	9,326	37,304	37,30
3-4	Drop	type-ld	nos		80,731	0	16,146	0	64,585	: } (
		type-lid	nos	1	33,170	33,170	6,634	6,634	26,536	26,53
3-5	Under Crossing	type-lu	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	
_ 1		type-llw	nos		40,307	. 0	8,061	0	32,245	1 1
3-7	Over Bridge	type Io	nos		206,648	. 0	41,330	0	165,318	
	**	type-llo	nos	£.,	106,982	. 0	21,396	0	85,586	
3-8	Parshall Flume	type lp	nos		18,312	0	3,662	• 0	14,649	
		type-llp	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-IIa	nos		25,167	0	5,033	• 0	20,134	(
	Sub-total				•	79,801	=	15,960	-	63,84

Construction Cost of Muruthawela Reservoir Scheme App.5.3-2 - Muruthawela LB Scheme - (20/20) Muruthawela LB

M-21 Tract III, D-9 Canal Local Currency (Rs) Forein Currency (Rs) . Total Cost (Rs) Unit Quantity Unit price Amount Amount Unit price Amount Unit price Construction Works Canal Works 721 2,885 3,607 type-BI 597 0 2,388 0 type-BII m 2,984 2,203 0 2.754 0 551 a type-BIII m 0 483 0 1,931 0 type-BIV 2,413 m 1,608 Ó 0 type-BV n 402 2.010 m 1,249 0 312 n 1.561 type-BVI m 517,440 259 129,360 1,035 500 1,294 646,800 type-BVII m 344 0 86 type-El 430 កា 0 0 280 349 70 type-EII m n 60 0 240 300 0 type-EIII m 0 type-EIV ß 13 m 63 129,360 517,440 646,800 Sub-total 2. Canal Structures (Grade C) 66,709 266,834 O Û type-li 333,543 2-1 Intake ños 101,787 28,909 0 25,447 127,233 0 type-lli DOS 28,909 7,227 36,136 7,227 36,136 2-2 Turnout type-lt nos 4.807 24,036 19,229 96,144 120,180 type-llt 5 24,036 nos 12,513 50,052 62,564 O type-lr 2-3 Regulator nos 37,304 n 46,630 0 9,326 type-Ilr nos ብ 0 16,146 0 64,585 80,731 type-ld 2-4 Drop nos 26,536 6,634 26,536 6.634 type-lld 33,170 nos 33,170 52,159 n 0 13,040 type-lu 65,198 2-5 Under Crossing nas n 0 0 12,121 48,485 60,606 type-Ilu nos 0 0 64,491 0 16,123 type-Iw 80,613 2-6 Spillway nos 0 0 8.061 0 32,245 type-llw 40.307 nos Ō 0 165,318 206.648 0 41,330 type-lo 2-7 Over Bridge nos 0 106,982 O 21,396 0 85,586 type-llo nos 3,662 14,649 0 type-ip 0 2-8 Parshall Flume nos 18,312 9,826 9,826 type-llp 12,283 2,457 2.457 12,283 nos 2,325,220 0 581,305 0 Û 2,906,525 2-9 Aqueduct type-la nos Ó 5,033 0 20,134 type-Ha 25,167 nos 201,770 40,354 161,416 Sub-total Canal Structures (Grade B) : 100% 0 266,834 333,543 66,709 Ò 3-1 Intake type-li nos O 0 25,447 Ü 101,787 127,233 type-lli nos 7,227 0 28,909 type-It 0 Ü 36,136 nos 3-2 Turnout Ö 19,229 Û type-IIt 4,807 24,036 0 nos Û 50.052 0 62,564 0 12,513 3-3 Regulator type-ir nos Ó 0 37,304 46,630 type-lir nos 64,585 0 0 16,146 n type-Id 80,731 nos 3-4 Drop 0 26,536 type-lld 33,170 n 6.634 nos 0 0 52,159 0 13,040 65.198 3-5 Under Crossing type-lu nos 0 12,121 0 48,485 60,606 type-llu nos 0 64,491 Ü 0 16,123 type-lw 80,613 3-6 Spillway nos Û 0 32,245 8,061 type-llw 40,307 O nos Ô 0 165.318 0 41,330 206,648 3-7 Over Bridge type-lo nos 0 21,396 O 85.586 type-llo 106,982 nos 0 14,649 0 0 3,662 type-Ip 18,312 3-8 Parshall Flume nos 0 9,826 0 2,457 type-lip 12,283 0 nos 2,325,220 0 0 2.906.525 0 581,305 3-9 Aqueduct type-Ia nos 0 20,134 O 0 5,033 type-lla 25,167 nos 0 Sub-total 678,856 169,714 848,570

Total

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (1/16)

	-	Unit	Quantity	Total Co			rrency (Rs)	Local Curr	
Construction World	ks			Unit price	Amount	Unit price	Amount	Unit price	Amou
. Canal Works	tura DI			3 607	0	721	0	2,885	
	type-Bl type-Bll	UJ		3,607 2,984	0	721 597	0	2,883	
		m		2,754 2,754	ő	551	0	2,203	
	type-BIII type-BIV	m		2,413	. 0	483	0	1,931	
	type-BV	m		2,010	ő	402	ő	1.608	
	type-BVI	in in	4,600	1,561	7,179,376	312	1,435,875	1,249	5,743,50
	type-BVII		4,000	1,294	7,172,370	259	0	1.035	3,143,50
		ni ni		430	ő	86	0	344	
	type-EI type-EII			349	. 0	70	ő	280	
	type-EIII	m		300	0	60	0	240	
	type-EIV	nı m		63	0	13	. 0	50	
Sub-total	type-Eiv	F11		0.5	7,179,376	13	1,435,875	50	5,743,50
2. Anicut (Grade C	.				7,172,310		1,423,673		3,143,30
2-1 Body	,	noe.		1,407,754		281,551	0	1,126,203	
2-1 Gate		nos		280,000	ő	56,000	ŏ	224,000	
		nos		208,841	Ö	41,768	ŏ	167,073	
2-3 Revetment		nos		705,212	ŏ	141,042	ŏ	564,170	
2-4 Spill Sub-total		nos		103,212	0	171,042	0	204,170	
3. Anicut (Grade B	-5000				<u>v</u>		<u>v</u>		
5. Ameut (Grade b 3-1 Body	. 30 70			703,877	167,073	140,775	0	563.102	167,07
3-1 Body 3-2 Gate		•		140,000	167,073	28,000	0	112,000	167,07
3-2 Gate . 3-3 Revetment				104,420	208,841	20,884	41,768	83,536	167,07
3-4 Spill	•			352,606	167,073	70,521	11,700	282,085	167,07
Sub-total				332,000	710,059	10,321	41,768	202,003	668,29
	· (Crada C	,			710,039		41,703	· · · · · - · · · - · ·	000,27
4. Canal Structures 4-1 Intake	type-li			333,543	0	66,709	0	266.834	
4-i Imake	type-Ili	nos	. 1	127,233	127,233	25,447	25,447	101,787	101,78
4-2 Turnout		nos		36,136	127,2,13	•	25,447	28,909	101,70
+2 Tuniout	type-it	nos	. 2	24,036	48,072	4,807	9,614	19,229	38,43
4.2 Danulator	type-llt	nos		62,564	40,072		9,014	50,052	30,40
4-3 Regulator	type-ir	nos	1	46,630	46,630		9,326	37,304	37,30
4-4 Drop	type-llr	nos	3.			16,146			37,30
4-4 Diop	type-ld	nos		80,731	0 66,341		12.24	64,585 26,536	1
1 C. 11- Jan Chandan	type-lld	nos	2	33,170		6,634	13,268		53,07
4-5 Under Crossing	type-lo	nos		65,198	0	13,040	0	52,159 48,485	
1 & Callbridge	type-llu	nos	filter i	60,606	0		· 0	•	,
4-6 Spillway	type-lw	nos		80,613 40,307	40,307	16,123 8,061	8,061	64,491 32,245	32,24
4.7. Over Bridge	type-liw	nos	, . .	4 4 L L L T L	40,307		0,001	165,318	
4-7 Over Bridge	type-lo	nos		206,648 106,982	ő		. 0	85,586	
4-8 Parshall Flume	type-llo	nos		18,312	Ü		. 0	14,649	:
4-8 Parsnau Fiume	type-lp	nos							9,82
d () A our duck	type-llp	nos	1,	12,283	12,283	2,457	2,457	9,826	9,02
4-9 Aqueduct	type-la	nos		2,906,525	0		0	2,325,220 20,134	
Cub satal	type-lla	nos	1	25,167	240.867	5,033		20,134	272.60
Sub-total		<u></u> -	. 1994		340,867		68,173		272,69
5. Canal Structures			:100%	222 642	: 0	66,709	· · · 0	266,834	
5-1 Intake	type-li	nos		333,543			0	101,787	:
CO Thirmore	type-lli	nos		127,233	0		_		
5-2 Turnout	type-lt	nos	c	36,136	120 190		24.026	28,909	0Z 1
C 2 Danilata	type-lit	nos	5	24,036	120,180		24,036	19,229	96,14
5-3 Regulator	type-lr	nos		62,564	0 46 630		0 326	50,052	22.20
C.A. Dea-	type-llr	nos	i	46,630	46,630		9,326	37,304	37,30
5-4 Drop	type-Id	nos		80,731	122.692		26.526	64,585	inc
s c. II	type-IId	nos	4	33,170	132,682		26,536	26,536	106,1
5-5 Under Crossing	type-lu	nos		65,198	0	13,040	0	52,159	
e / 0-111	type-ilu	nos		60,606	0		0	48,485	
5-6 Spillway	type-lw	nos		80,613	. 0	16,123	0	64,491	22.2
	type-llw	nos	ì	40,307	40,307	8,061	8,061	32,245	32,2
5-7 Over Bridge	type-lo	nos		206,648	0		0	165,318	
	type-llo	nos		106,982	0		0	85,586	
E O D Lalt Plans	type-lp	nos		18,312	0		. 0	14,649	
5-8 Parshall Flume	trina IIa	nos		12,283	0		0	9,826	
	type-llp								
5-8 Parsnau Flume 5-9 Aqueduct	type-Ia	nos		2,906,525	0		0	2,325,220	<u>.</u> .
5-9 Aqueduct	type-la type-lla		- 1		25,167	5,033	5,033	2,325,220 20,134	20,13
	type-la type-lla	nos	. 1	2,906,525		5,033			20,1. 291,9

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme Urubokka - Urubokka Oya Scheme - (2/16)

		Unit	Quantity	Total Co			rency (Rs)	Local Curre	
Construction World	(S			Unit price	Amount	Unit price	Amount	Unit price	Amour
. Canal Works					•	201	0	2,885	;
	type-BI	m		3,607	0	721 507			
	type-BII	m		2,984	0	597	0	2,388	
	type-BIII	m		2,754	0	.551		2,203	
	type-BIV	กา		2,413	0	483	. 0	1,931	
	type-BV	n)	4	2,010	0	402	0	1,608	
	type-BVI	m	3,400	1,561	5,306,495	312	1,061,299	1,249	4,245,19
	type-BVII	m		1,294	• •	259	. 0	1,035	
	type El	m		430	.0	86	0	344	
	type-Ell	m		349	Ü	70	0	280	
	type-Eill	m		300	0	60	0	240	
	type-EIV	m		63	. 0	13	.0	50	
Sub-total	71				5,306,495		1,061,299		4,245,19
, Anicut (Grade C	j								
2-1 Body		nos		1,407,754	.0	281,551	0	1,126,203	
2-1 Gate		nos		280,000	0	56,000	0	224,000	
2-3 Revetment		nos		208,841	0	41,768	0	167,073	•
2-4 Spill		nos		705,212	0	141,042	0	564,170	
Sub-total					0		0	1.0	
, Anicul (Grade B	.50%								
3-1 Body				703,877	167.073	140,775	0	563,102	167,0
3-1 Body 3-2 Gate				140,000	167,073	28,000	0	112,000	167,0
				104,420	208,841	20,884	41,768	83,536	167,0
3-3 Revetment	*			352,606	167,073		0	282,085	167,0
3-4 Spill			i	332,000	710,059	,0,021	41,768		668,2
Sub-total	70 -545 P	<u>,</u>			,				
Canal Structures				333,543	0	66,709	. 0	266,834	
I-1 Intake	type-li	nos	- 1	127,233	127,233		25,447	101,787	101,7
	type-lli	nos	. 1		127,233		23,	28,909	
I-2 Turnout	type-lt	nos	2	36,136	48,072	- · · · · ·	9,614	19,229	38,4
	type-llt	nos	. 2		46,072		0	50,052	
I-3 Regulator	type-lr	nos		62,564	46,630		9,326	37,304	37,3
	type-llr	nos	1	46,630			0,320	64,585	υ.,υ
1-4 Drop	type-ld	nos		80,731		16,146 6,634	6,634	26,536	26,5
	type-Ild	nos	. 1	33,170	33,170		0,034	52,159	20,0
1-5 Under Crossing		nos		65,198	0		ő	48,485	: .
	type-llu	nos		60,606	0		0	64,491	;
1-6 Spillway	type-Iw	กดร		80,613	0		ő	32,245	
	type-llw	nos		40,307	0		0	165,318	•
4-7 Over Bridge	type-lo	nos		206,648	0	1 1 1 1	0		-
	type-llo	nos		106,982	0	7	0	85,586	
4-8 Parshall Flume	type-lp	nos		18,312	0			14,649	9,8
	type-llp	nos	ļ	12,283	12,283		2,457	9,826 2,325,220	7,0
4-9 Aqueduct	type-Ia	nos		2,906,525	. 0		0		
•	type-lla	nos		25,167	0		: 0	20,134	212.0
Sub-total					267,389		53,478		213,9
5. Canal Structure	s (Grade E	3)	: 100%					266 024	
5-1 Intake	type-li	nos		333,543	0		0	266,834	
	type-lli	nos		127,233	0		0	101,787	100
5-2 Turnout	type-It	nos		36,136	0		0.036	28,909	ne i
	type-IIt	nos			120,180		24,036	19,229	96,1
5-3 Regulator	type-Ir	nos		62,564		•	0	50,052	m.4.
:	type-llr	nos	2		93,261		18,652	37,304	74,0
5-4 Drop	type-Id	nos		80,731			0	64,585	. لي
· · · · · · · · · · · · · · · · · · ·	type-Ild	nos		33,170	33,170		6,634	26,536	26,5
5-5 Under Crossing	type-lu	nos		65,198		13,040	0	52,159	
2 Oraci Olossing	type-llu	nos		60,606	C		0	48,485	
5-6 Spillway	type-Iw	nos		80,613		16,123	0	64,491	
2 o ohimud	type-llw	nos		40,307	40,307		8,061	32,245	32,7
5-7 Over Bridge		nos		206,648	13,000		. 0	165,318	
2-1 Over pringe	type-lo			106,982	č		. 0	85,586	
ea nakair	type-llo	nos		18,312	·		ő	14,649	
5-8 Parshall Flume	type-lp	nos			ò	'	ŏ	9,826	
	type-llp	nos		12,283	(ŏ		
5-9 Aqueduct	type-la	nos		2,906,525			5,033	20,134	20,
*	type-lla	1005	i l	25,167	25,167		62,417	20,107	249,
Sub-tota	1				312,085	<u></u>	02,417		
				the second secon					

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

U-3 Udukiriwifa Anicut Forein Currency (Rs) Local Currency (Rs) Unit Quantity Total Cost (Rs) Construction Works Amount Unit price Amount Unit price Unit price Canal Works 2,885 type-Bl 3 607 721 type-Bll 2,984 0 597 0 2,388 Ü m type-BIII 551 2.203 2.754 0 Ü Ü m 483 O O 2,413 O 1.931 type-BIV nì type-BV 2,010 0 402 () 1,608 Û m type-BVI 4,370,055 874,011 3,496,044 2,800 1,561 312 1,249 m 1,294 1,035 type-BVII n m 259 O type-El 430 0 86 a 344 0 type-EII 70 349 O 280 m type-EIII 3(X) 0 60 O 240 0 m 63 0 50 a m Sub-total 4,370,055 874,011 3,496,044 Anicul (Grade C) 2-1 Body nos 1,407,754 0 281,551 0 1,126,203 0 2-1 Gate 280,000 56,000 0 224,000 0 nos 2-3 Revetment nos 208,841 41,768 0 167,073 0 2-4 Spill O () nos 705,212 O 141,042 564,170 Sub-total 0 Anicut (Grade B: 50% 3-1 Body 703,877 0 0 n 140,775 563,102 140,000 28,000 Ð 112,000 3-2 Gate n n 3-3 Revetment 104,420 104,420 20,884 20,884 83,536 83,536 3-4 Spill 352,606 70,521 282,085 104,420 20,884 Sub-total 83,536 Canal Structures (Grade C) type-li 4-1 Intake 66,709 266,834 333,543 type-lli 127,233 381,700 25,447 76,340 101,787 305,360 nos 28,909 4-2 Turnout 36.136 7.227 type-It nos 19,229 76,915 type-llt 24,036 96,144 4,807 19,229 nos 4-3 Regulator type-lr nos 62,564 12,513 50,052 type-llr 2 46,630 18,652 37,304 74,609 93,261 9.326 nos 4-4 Drop type-ld nos 80,731 16,146 64,585 type-ild nos 33,170 33,170 6,634 6,634 26,536 26,536 4-5 Under Crossing type-lu nos 65,198 52,159 type-llu 60.606 60,606 48,485 12,121 48,485 nos 12.121 46 Spillway type-lw 80.613 nos 16.123 64.491 type-llw 40,307 40,307 8,061 8,063 32,245 nos 4-7 Over Bridge 165,318 type-lo nos 206,648 type-llo 106,982 106,982 21,396 21,396 85.586 85,586 nos 4-8 Parshall Flume 18,312 3,662 type-Ip nos () 14,649 type-llp nos 12,283 36,849 2,457 7,370 9,826 29,479 581,305 2,325,220 4-9 Aqueduct type-la 2,906,525 nos type-lla 25,167 5,033 20,134 DOS Sub-total 849,020 169,804 679,216 Canal Structures (Grade B) : 100% 5-1 Intake type-li 333,543 333,543 66,709 66,709 266,834 266,834 nos 25,447 type-Hi 127,233 101,787 nos 28,909 5-2 Turnout type-It 7,227 n nos 36,136 24,036 type-llt nos 192,289 4,807 38,458 19,229 153,831 type-lr 5-3 Regulator 62,564 12,513 50,052 nos type-IIr 46,630 186,522 9.326 37,304 149,217 37,304 nos 5-4 Drop type-Id nos 80,731 16,146 64,585 type-Hd nos 2 33,170 66,341 13,268 26,536 53,073 type-Iu 5-5 Under Crossing 65,198 13,040 52.159 nos type-Ilu 2 60,606 121,211 24,242 96,969 1105 12.121 48,485 5-6 Spillway type-lw 80,613 16,123 64,491 40,307 80,613 64,491 type-Ilw nos 8,061 16,123 32,245 5-7 Over Bridge type-lo 206,648 165,318 41,330 nos 106,982 213,964 21,396 42,793 171,172 type-llo nos 85,586 5-8 Parshall Flume 18,312 3,662 0 14,649 type-Ip nos type-lip 12,283 2,457 0 nos 9,826 0 581,305 5-9 Aqueduct type-la 2,906,525 Û 2.325,220 nos a 25,167 5,033 type-lfa 25,167 20,134 20,134 1,219,650 243,930 Sub-total 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)

	ıt 	Unit	Quantity	Total Co	st (Rs)	Forein Curr	ency (Rs)	Local Curre	ncy (Rs)
Construction Work	(S	Cini.	Quant	Unit price		Unit price	Amount	Unit price	Amoun
Canal Works									
(type-B1	m		3,607	0	721	0	2,885	9
Í	type-BII	m		2,984	0	597	0	2,388	
	lype-BIII	m		2,754	0	551	0	2,203	
· (type-BIV	U3		2,413	0	483	. 0	1,931	(
	type-BV	m		2,010	0	402	- 0	1,608	(
	type-BVI	· m		1,561	0	312	Q	1,249	
f	type-BVII	m		1,294	: 0	259	0	1,035	
	type-El	m		430	. 0	86	0	344	. •
	type-Ell	m		349	0	70	0	280	
	type-EIII	m		300	0	60	0	240	
	type-EIV	81		63	0	13	0	50	(
Sub-total					0				
Anicul (Grade C))		*						
-1 Body		nos		1,407,754	0	281,551		1,126,203	
-1 Gate		nos	- 5	280,000	1,400,000	56,000	280,000	224,000	1,120,00
-3 Revelment		nos	1	208,841	208,841	41,768	41,768	167,073	167,07
-4 Spill		nos		705,212		141,042	. 0	564,170	1 000 00
Sub-total					1,608,841		321,768		1,287,07
Anicut (Grade B	: 50%		*•				1.40.035	660 100	562 10
-1 Body			1.			140,775	140,775	563,102	563,10
-2 Gate				140,000	0	28,000	0	112,000	
-3 Revetment				104,420	0		0	83,536	
-4 Spill		:		352,606	0	70,521	0	282,085	
Sub-total	_				703,877		140,775		563,10
. Canal Structures	(Grade C)						266.024	
-1 Intake	type-li	nos		333,543	0		0	266,834	101.70
	type-lli	nos	1	127,233	127,233		25,447	101,787	101,78
	type-lt	nos		36,136	0		0	28,909	1163
	type-llt	nos	6	24,036	144,217		28,843	19,229	115,37
-3 Regulator	type-Ir	nos	•	62,564	0		0.7.070	50,052	A
	type-llr	nos	.⊹ 3	46,630	139,891	9,326	27,978	37,304	111,91
-4 Drop	type-ld	nos		80,731	. 0		0	64,585	
	type-lld	nos		33,170	0		0	26,536	
 Under Crossing 	type-lu	nos		65,198	0		0	52,159	AU A1
	type-ilu	nos	1	60,606	60,606		12,121	48,485	48,48
-6 Spillway	type-Iw	nos		80,613	0	*	0 0	64,491	32,24
	type-llw	nos	- 1	40,307	40,307		8,061	32,245	32,2-
-7 Over Bridge	type-Io :	nos		206,648	0		21.206	165,318	85,5
	type-ilo	nos	_ 1	106,982	106,982	` _ ` <u> </u>	21,396	85,586	65,56
-8 Parshall Flume	type-lp	nos		18,312	0		4012	14,649	19,6
	type-lip	nos	2		24,566		4,913	2,325,220	12,0
-9 Aqueduct	type-Ia	nos	:	2,906,525	0		0	20,134	
-	type-IIa	nos		25,167	(42,802		128,760	20,134	515,0
Sub-total					643,802		120,700		313,0
. Canal Structure			: 100%	222 642		66,709	0	266,834	
-1 Intake	type-li	nos	7	333,543	127,233		25,447		101,7
	type-lli	nos	1	127,233			23,447		1011
-2 Turnout	type-It	nos		36,136	226 505		67,301	19,229	269,2
	type-llt	nos	14		336,505		01,301	50,052	207,2
-3 Regulator	type-Ir	nos		62,564	270.783		55,957	37,304	223,8
	type-llr	nos	6		279,783		03,337	64,585	- 25,0
-4 Drop	type-Id	nos		80,731	(Ŏ	26,536	
	type IId	nos		33,170	, (ŏ	52,159	
-5 Under Crossing	type-lu	nos	_	65,198			24,242	48,485	96,9
	type-llu	nos	2		121,211		24,242	64,491	20,2
-6 Spillway	type-Iw	nos		80,613			8,061	32,245	32.2
	type IIw	nos	. 1		40,307		0,001		52,2
-7 Over Bridge	type-lo	nos		206,648	212.06		42,793	85,586	171,1
	type-llo	nos	2		213,964		42,193		171,1
5-8 Parshall Flume	type-ip	nos		18,312	. (0	9,826	
	type-llp	nos		12,283	(0		
		0.00		2,906,525	• (581,305	U	6,363,640	
5-9 Aqueduct	type-la	nos					^		
	type-lla	nos		25,167	: (5,033	222 801		805 4
5-9 Aqueduct Sub-tota	type-lla					5,033	0 223,801		895,2

App.5.3-3 Construction Cost of Muruthawela Reserver Scheme
- Urubokka Oya Scheme - (5/16)

/1		Offic	Quantity		ost (Rs)		urrency (Rs)		rency (Rs)
Construction Wol. Canal Works	rks			Unit price	Amount	Unit price	Amount	Unit price	Amou
I. Canal Works	type-Bl	m		3,607	0	731	Λ	2006	
	type-Bit	m m		2,984	0		0	2,885	
	type-BIII	U)		2,754	. 0		0	2,388 2,203	
	type-BIV	m		2,413	ő	483	. 0	1,931	
	type-BV	m		2,010	. 0	402	Ŏ	1,608	
	type-BVI	W		1,561	0	312	Ü	1,249	
	type-BVII		3,900	1,294	5,045,039	259	1,009,008	1,035	4,036,03
	type-Et	m	4,700	430	0,013,039		0	344	4,050,05
	type-Ell	m		349	ŏ	70	ŏ	280	
*	type-EIII	m		300	ŏ		ŏ	240	
	type-EIV	m		63	· ō		ŏ	50	*
Sub-tota	1				5,045,039		1,009,008	• •	4,036,03
2. Anicut (Grade (.)	•							
2-1 Body		nos		1,407,754	0	281,551	O	1,126,203	
2-1 Gate		nos	5	280,000	1,400,000		280,000	224,000	1,120,00
2-3 Revetment		nos		208,841	0	41,768	U	167,073	
2-4 Spill		nos		705,212	0	141,042	Û	564,170	
Sub-tota					1,400,000		280,000		1,120,00
3. Anicut (Grade I	3:50%								
3-1 Body			ij	703,877		140,775	140,775	563,102	563,10
3-2 Gate			l	140,000	, _	28,000	28,000	112,000	112,00
3-3 Revetment				104,420	. 0		0	83,536	
3-4 Spill	• .			352,606		70,521	0	282,085	
Sub-tota L. Canal Structure		· · · ·			843,877		168,775		675,10
				222 6 42 1	0	66 70V		014 024	
F-1 IIRAKC	type-li	nos	2	333,543 127,233	0 254 467		60 903	266,834	202.62
	type-lli type-lt	nos	2 -	36,136	254,467		50,893	101,787	203,57
rz Tulnout	type-lit	nos nos	4	24,036	96,144	7,227	10.220	28,909	76.01
-3 Regulator	type-ir	nos	7	62,564	30,144 ()	4,807 12,513	19,229 0	19,229 50,052	76,91
i o regulator	type-llr	กอร	. 2	46,630	93,261	9,326	18,652	37,304	74,60
I-4 Drop	type-Id	nos		80,731	0	16,146	10,052	64,585	74,00
	type-lld	nos	1	33,170	33,170	6,634	6,634	26,536	26,53
I-5 Under Crossing	type-lu	nos	•	65,198	Ö	13,040	0	52,159	20,55
	type-liu	nos	1.	60,606	60,606	12,121	12,121	48,485	48,48
l-6 Spillway	type-lw	nos		80,613	0	16,123	0	64,491	,
	type-llw	nos		40,307	0	8,061	0	32,245	
-7 Over Bridge	type-lo	nos		206,648	. 0	41,330	. 0	165,318	
	type-llo	nos		106,982	• 0	21,396	0	85,586	
8 Parshall Flume	type-lp	nos	_	18,312	0	3,662	0	14,649	
	type-llp	nos	. 2		24,566	2,457	4,913	9,826	19,65
l-9 Aqueduct	type-la	nos		2,906,525	. 0				
Co. L. Anna	type-lla	nos		25,167	0	5,033	0	20,134	
Sub-total	i Altrada D'	·	100%		562,214		112,443		449,77
Canal Structure			10070	222 642	Α.		_	264.024	
HIGAC	type-li	nos		333,543	0	66,709	0	266,834	٠ ,
-2 Turnout	type-IIi	nos		127,233	0	25,447	0	101,787	
∠ i urdout	type-It type-IIt	nos	7	36,136 24,036	168,253		32.651	28,909	12420
-3 Regulator	type-ir	nos nos	,	62,564	108,233		33,651	19,229	134,60
- ive gorator	type-IIr	nos	4	46,630	186,522	9,326	0 37,304	50,052 37,304	140 21
4 Drop	type-ld	nos	-1	80,731	160,322	16,146	37,304	37,304 64 \$85	149,21
. Diop	type-lld	nos	2	33,170	66,341	6,634	13.268	64,585 26,536	53.02
-5 Under Crossing	type-lu	nos	-	65,198	00,541	13,040	13,200	52,159	53,07
: :	type-llu	nos	3	60,606	181,817	12,121	36,363	48,485	145,45
-6 Spillway	type-Iw	nos	_	80,613	0	16,123	0	64,491	145,45
	type-llw	nos	1	40,307	40,307	8,061	8,06Ĭ	32,245	32,24
-7 Over Bridge	type-lo	nos	-	206,648	0	41,330	0,001	165,318	22,24
	type-llo	nos	1	106,982	106,982	21,396	21,396	85,586	85,58
8 Parshall Flume	type-lp	nos	•	18,312	0	3,662	21,370	14,649	03,30
	type llp	nos		12,283	ŏ	2,457	ŏ	9,826	
-9 Aqueduct	type-la	nos		2,906,525	ŏ	581,305	ŏ	2,325,220	
•	type-lla	nos	l ·	25,167	25,167	5,033	5,033	20,134	20,13
Sub-total		-	-	, - ,	775,388	·,	155,078		620,31
								- 	
Total					8,906,518				

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme - Urubokka Oya Scheme - (6/16)

U-6 Hakuruwela Ani		Unit	Quantity	and the second s	ost (Rs)		rrency (Rs)	Local Cur	-
Construction Wor	KS			Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works	tura DI			2.607	0	721	0	2,885	(
	type-BI	m		3,607	0	597	0	2,388	Č
	type-BII	m		2,984 2,754	ő	551	Ü	2,203	ì
	type-BIII type-BIV	m m		2,413	ő	483	ő	1,931	_
	type-BV	m		2,010	· ŏ	402	ŏ	1,608	ď
	type-BVI	m	9,100	1,561	14,202,678	312	2,840,536		11,362,142
	type-BVII	m	2,100	1,294	0	259	0	1,035	
	type-El	m		430	ŏ	86	ŏ	344	Ö
	type-EII	m		349	Ŏ	70	0	280	Ū
	type-Eill	n)		300	Ō.	60	0	240	Ō
	type-EIV	m		63	0	13	0	50	. 0
Sub-total					14,202,678		2,840,536		11,362,142
2. Anicut (Grade C						· · · · · · · · · · ·			
2-1 Body	•	nos		1,407,754	0	281,551		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	_	141,042	0	564,170	
Sub-total				<u> </u>	1,400,000		280,000	·	1,120,000
3. Anicut (Grade B	: 50%						1 10 000		E/0.100
3-1 Body			1	703,877	•	140,775	140,775	563,102	563,102
3-2 Gate				140,000	0	28,000	0	112,000	02.626
3-3 Revetment			: 1	104,420	104,420	20,884	20,884	83,536	83,536
3-4 Spill			1.	352,606	0	70,521	0	282,085	(14,42
Sub-total					808,297		161,659		646,638
4. Canal Structure				222 542		66,709	0	266,834	
4-1 Intake	type-li	nos		333,543	0 127,233	25,447	25,447	101,787	101,787
A.O. Toronous	type-lli	nos	1	127,233 36,136	127,233	7,227	23,447	28,909	101,767
4-2 Turnout	type-It	nos	10	24,036	240,361		48,072	19,229	192,289
4.2 Papulator	type-lit	nos	10	62,564	240,301		40,072	50,052	1,72,20,7
4-3 Regulator	type-ir	nos	5	46,630	233,152	9,326	46,630	37,304	186,522
4-4 Drop	type-lir type-ld	nos	•	80,731	233,132	16,146	10,030	64,585	(00,322
4-4 Diop	type-lid	nos	1	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-lu	nos	•	65,198	0		: 0,000	52,159	20,550
45 Older Clossing	type-llu	nos	1	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-lw	nos		80,613	0	/	0	64,491	ί
1 O Opining	type-liw	nos	2	'	80,613	8,061	16,123	32,245	64,49
4-7 Over Bridge	type-lo	nos	· · · · ·	206,648	0		0	165,318	(
	type-lio	nos	2		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	
the state of the state of	type-llp	nos	2	12,283	24,566	2,457	4,913	9,826	19,653
4-9 Aqueduct	type-la	nos		2,906,525	. 0	581,305	· O	2,325,220	(
•	type-lla	nos		25,167	0	5,033	0	20,134	(
Sub-total					1,013,666		202,733		810,933
5. Canal Structure		•	: 100%	000 5 ::		11 000		266.024	
5-1 Intake	type-li	nos		333,543	102 222		25.447	266,834	101 797
6 0 M	type-lli	nos	1	127,233	127,233	25,447	25,447	101,787	101,787
5-2 Turnout	type-It	nos	124	36,136		7,227	0	28,909) : /ac.cki
60 Danisha	type-llt	nos	23	24,036	552,830	4,807	110,566	19,229	442,264 (
5-3 Regulator	type-Ir	nos		62,564	512.035	12,513	102 587	50,052 37,304	410,348
6.4 Diam	type-llr	nos	111	46,630 80,731	512,935 0	9,326	102,587	64,585	410,340
5-4 Drop	type-Id	nos				16,146		26,536	53,07
6 6 Hadas Casasian	type-lld	nos	. 2	33,170	66,341	6,634	13,268	52,159	33,07.
5-5 Under Crossing	type-lu	nos	•	65,198	121,211	13,040 12,121	24,242	48,485	96,969
5 & Spillman	type-llu	nos	. 2	60,606 80,613	121,211	16,123	0	64,491	70,703
5-6 Spillway	type-Iw	nos	4	40,307	161,226	8,061	32,245	32,245	128,98
5-7 Over Bridge	type-llw	nos	4	206,648	101,220	41,330	32,243	165,318	120,501
5-7 Over bridge	type-lo type-llo	nos	4	106,982	427,929	21,396	85,586	85,586	342,34
5-8 Parshall Flume		nos	4	18,312	421,929	3,662	05,560	14,649	
J-0 1 at Shall Fluid	type-lp type-llp	nos nos		12,283	· 0	2.457	0	9,826	Ò
•	Abe in			2,906,525	ŏ		ŏ	2,325,220	
S.O. Aquaduet	EVINA. IS								
5-9 Aqueduct	type-la	nos	3						60[40]
	type-Ila	nos	3	25,167	75,501	5,033	15,100	20,134	
5-9 Aqueduct Sub-total	type-Ila		3						60,401 1,636,160

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (7/16)

1.4		Unit	Quantity		ost (Rs)		rrency (Rs)	Local Cun	
Construction Wor	ks			Unit price	Amount	Unit price	Amount	Unit price	Amount
. Canal Works	type-B1	m		3,607	0	721	0	2,885	O
	type-BII	m.		2,984	ŏ	597	ŏ	2,388	ŏ
	type-Blil	m		2,754	ŏ	551	ŏ	2,203	ũ
	type-BIV	m		2,413	ō	483	Ű	1,931	ď
	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-El	m		430	0	86	0	344	0
* -	type-Ell	m		349	0	70	0	280	ç
	type-Eill	m		300	0	60	0	240	0
Sub-total	type-EIV	m		63	0 11,676,054	13	2,335,211	50	9,340,843
Anicut (Grade C					11,070,034		2,333,211		7,540,645
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	ì	•	208,841	41,768	41,768	167,073	167,073
2-4 Spill		nos		705,212		141,042	0	564,170	· (
Sub-total				·	1,608,841		321,768		1,287,073
. Anicut (Grade B	3:50%			500 055	905.05			640 -00	
3-1 Body			1		703,877		140,775	563,102	563,102
3-2 Gate				140,000	0	28,000	0	112,000	• (
3-3 Revetment	· · · · · · ·			104,420	0	20,884	0	83,536	
3-4 Spill Sub-total	I		•	352,606	703,877	70,521	0 140,775	282,085	563,10
I. Canal Structure		5			103,077		1-0,773	•	
I-1 Intake	type-li	nos		333,543	0	66,709	0	266,834	(
	type-lli	nos	. 2	127,233	254,467	25,447	50,893	101,787	203,57
I-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909	
	type-IIt	nos	10	24,036	240,361	4,807	48,072	19,229	192,289
1-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	(
1 4 1Name	type-llr	nos	3	1	139,891	9,326	27,978	37,304	111,913
1-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	(
1-5 Under Crossing	type-lld type-lu	nos		33,170 65,198	0	6,634	0	26,536 52,159	(
- Onder Crossing	type-lu	nos	1	60,606	60,606	12,121	12,121	48,485	48,48
1-6 Spillway	type-lw	nos		80,613	00,000	16,123	0	64,491	10,10.
	type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,24
1-7 Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	1
	type-llo	nos	1	106,982	106,982	21,396	21,396	85,586	85,58
1-8 Parshall Flume	type-lp	nos		18,312	0		0	14,649	(
	type-Ilp	nos	2	12,283	24,566	2,457	4,913	9,826	19,65
1-9 Aqueduct	type-la	nos		2,906,525	0		0	2,325,220	(
Sub-tota	type-lla	nos		25,167	0 867,180	5,033	0 173,436	20,134	693,74 ⁴
Canal Structure		3	: 100%		007,100		175,450		
i-1 Intake	type-li	nos		333,543	0	66,709	0	266,834	
	type-lli	nos	` .	127,233	Ō	25,447	0	101,787	(
5-2 Turnout	type-It	nos	* .	36,136	· 0	7,227	0	28,909	(
	type-IIt	nos	23	24,036	552,830	4,807	110,566	19,229	442,26
5-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	200.42
4 75	type-IIr	nos	8	46,630	373,044	9,326	74,609	37,304	298,43
5-4 Drop	type-Id	nos		80,731	33 170	16,146	6 624	64,585	25.50
5-5 Under Crossing	type-IId type-Iu	nos	1	33,170 65,198	33,170 0	6,634 13,040	6,634 0	26,536 52,159	26,53
-2 Onder Crossing	type-llu	nos nos	3	60,606	181,817	12,121	36,363	48,485	145,45
6-6 Spillway	type-hu	nos		80,613	101,017	16,123	30,303 A	64,491	142,43
~ ~ opining	type-llw	nos	. 2	40,307	80,613	8,061	16,123	32,245	64,49
5-7 Over Bridge	type-lo	nos	. 4	206,648	0,075	41,330	0,123	165,318	2.46.15
	type-Ilo	nos	. 3	106,982	320,947	21,396	64,189	85,586	256,75
5-8 Parshall Flume	type-Ip	nos	į,	18,312	0	3,662	0	14,649	(
P.D. Latellan Limit	type-llp	nos		12,283	. 0	2,457	0	9,826	(
5-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220	
5-9 Aqueduct	type-Ia type-IIa		2		50,334	581,305 5,033	10,067	2,325,220 20,134	40,267
	type-Ia type-IIa	nos	2						40,267 1,274,204

		Unit	Quantity	Total Co		Forein Cur	* . '	Local Curre	
Construction Wor	ks			Unit price	Amount	Unit price	Amount	Unit price	Amou
Canal Works				2.407		701	0	2,885	•
	type-BI	m		3,607	0	721	Ö	2,388	
	type-BII	m		2,984	0	597	-		
	type-Blll	m		2,754	0	551	0	2,203	
	type-BIV	m		2,413	0	483	0	1,931	
	type-BV	m		2,010	0	402	0	1,608	F 040 05
	type-BVI	m	4,300	1,561	6,711,156	312	1,342,231	1,249	5,368,92
	type-BVII		2,500	1,294	3,233,999	259	646,800	1,035	2,587,19
	type-El	m	-,	430	0	86	0	344	
	type-Ell	n)		349	0	70	0	280	
				300	ŏ	60	1 0	240	
· .	type-EllI	m		63	ŏ	13	Ŏ	50	
	type-BIV	. m		03	9,945,155	13.	1,989,031	30	7,956,12
Sub-total		'			9,943,133		1,707,031		,
Anicut (Grade C	3)			1 102 761		201 551	Ω	1,126,203	
-1 Body		nos		1,407,754		281,551			1,120,0
-1 Gate		nos	5	280,000	1,400,000	56,000	280,000	224,000	
-3 Revetment		nos	1	208,841	208,841	41,768	41,768	167,073	167,0
-4 Spill		nos	· 1	705,212	705,212	141,042	141,042	564,170	564,1
Sub-tota	Ι .				2,314,053	_	462,811		1,851,2
Anicul (Grade l									
3-1 Body	. ,		· 1	703,877	703,877	140,775	140,775	563,102	563,1
			•	140.000	0	28,000	0	112,000	
3-2 Gate				104,420	ŏ	20,884	Ō	83,536	
3-3 Revetment				352,606	ŏ		Ŏ	282,085	
l-4 Spill				332,000	703.877		∷ 140,77Š	202,000	563,1
Sub-tota					703,077		140,775		
. Canal Structure				222 642	0	66,709	0	266,834	- 1
-1 Intake	type-li	nos	٠ _	333,543			50,893	101,787	203.5
	type-lli	nos	• 2	127,233	254,467				205,5
-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909	122.0
	type-lit	nos	. 9	24,036	216,325	4,807	43,265	19,229	173,0
3 Regulator	type-lr	nos		62,564	. 0	: 12,513	. 0	50,052	
.5 Regulator	type-llr	nos	^	46,630	93,261	9,326	18,652	37,304	74,6
A Dean	type-Id	nos		80,731	0		0	64,585	:
4 Drop				33,170	ŏ	•	O O	26,536	
	type-lid	nos			ŏ		Ď	52,159	
-5 Under Crossing		nos	_	65,198			24,242	48,485	96,9
	type-llu	nos		60,606	121,211		24,242	64,491	,,,,
l-6 Spillway	type-Iw	nos	1 -	80,613	0		ŏ	32,245	
	type-IIw	nos	3	40,307	. •				
-7 Over Bridge	type-io	nos	1000	206,648	0			165,318	171 1
	type-llo	nos	2	106,982	213,964	21,396	42,793		171,1
1-8 Parshall Flume	type-lp	nos		18,312	. 0		0.	14,649	
	type-lip	nos	2	12,283	24,566	2,457	4,913	9,826	19,6
1-9 Aqueduct	type-la	nos		2,906,525	0	- 581,305	. 0	2,325,220	
ry Aqueduci	type-lla	nos		25,167	0	5,033		20,134	
Sub-tota					923,794		184,759		739,0
		31	:100%		<u></u>				
	type-li	" nos		333,543	0	66,709	0	266,834	
i-1 Intake				127,233	ŏ		0	101,787	
	type-Ili	nos			ŏ		ŏ	28,909	
3-2 Turnout	type-It	nos		36,136	528,794		105,759	19,229	423,0
	type-llt	nos		24,036			103,739	50,052	
i-3 Regulator	type-Ir	nos		62,564	022.163			37,304	186,
4	type-IIr	nos	. 5	46,630	233,152		46,630		100,
-4 Drop	type ld	nos	,	80,731	. 0		0	64,585	
•	type-lld	nos	•	33,170	Ç		Ŏ	26,536	
5-5 Under Crossing	type Iu	nos	1	65,198	C		0	52,159	A 4A
	type-Ilu	nos	_	60,606	303,028	12,121	60,606	48,485	242,
6 Spillway	type-Iw	nos		80,613	Ć		0	64,491	
o opinwa)	type-liw	nos	•	40,307	40,307		8,061	32,245	32.
Our Diller		nos		206,648			0	165,318	
5-7 Over Bridge	type-lo		_	106,982	320,947		64,189	85,586	256,
	type-llo	nos			320,741		04,107	14,649	
5-8 Parshall Flume	type-Ip	nos		18,312		3,002	ŏ	9,826	
	type-IIp	nos	•	12,283	ç				
5-9 Aqueduct	type-la	nos	;	2,906,525	2.5		0	2,325,220	^^
•	type-lla	nos	: 1	25,167	25,167		5,033	20,134	20,
Sub-tot					1,451,395		290,279		1,161,
									10 000
Total	÷				15,801,084	<u> </u>	4,918,897		10,882,
		1.		and the second s	87,359,658		23,603,563		63,756,

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme - Urubokka Oya Scheme - (9/16)

Urubokka

			Unit	Quantity	Total Co	st (Rs)	Forein Cui	rency (Rs)	Local Cuir	ency (Rs)
	Construction W	orks			Unit price	Amount	Unit price	Amount	Unit price	Amour
	Canal Works									
		type-B1	nı		2,701	Ō		0		1
		type-BII	m		2,260	0	452	0	1,808	•
		type-BIII	133		2,211	0	442	0	1,769	4
		type-BIV	131	•	2,051	0	410	0	1,641	
	-	type-BV	m		1,829	. 0	366	0		
		type-BVI	m		1,416	0		Ō	1,133	. (
		type-BVI	m		1,185	Ō		ŏ	948	: '
	•	type-El	m		430	ŏ		, ŏ		
		type-EII	m		349	ŏ		ŏ	280	
		type-EIII	m		300	ŏ		0		ì
		type-EIV	m	900					240	The second secon
	Sub-total		161	300	03	56,726		11,345	50	45,38
			715			56,726		11,345	· · · · · · · · · · · · · · · ·	45,38
	Canal Structur			. ,	222 642		44.000		044.001	
1	Intake	type-li	nos	0	333,543	- 0		0	266,834	
_	m .	type-lli	nos	1	127,233	127,233		25,447	101,787	101,78
2	Turnout	type-It	nos		36,136	0		0	28,909	(
		type-lit	nos	2	24,036	48,072	4,807	9,614	19,229	38,45
3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	
		type-llr	nos	1	46,630	46,630		9,326	37,304	37,30
4	Drop	type-Id	nos		80,731	0	16,146	0	64.585	
	•	type-lid	nos	1	33,170	33,170		6,634	26,536	26,53
5	Under Crossing	tvoe-lu	nos	-	65,198	Õ		0,054	52,159	- (
		type-liu	nós	1	60,606	60,606		12.121	48,485	48,48
ĸ	Spillway	type-lw	nos	•	80,613	00,000	16,123	, _		
_	opy	type-llw	nos	1		_		9 041	64,491	22.24
7	Over Bridge	type-lo			206,648	40,307	8,061 41,330	8,061	32,245	32,24
•	OTH DRUGE		nos			104 092		. 0	165,318	0.6.50
v	Darchall Elver	type-llo	nos	1	106,982	106,982	21,396	21,396	85,586	85,586
0	Parshall Flume	type-lo	nos		18,312	0	3,662	0	14,649	(
	A	type-llp	nos	, !	12,283	12,283	2,457	2,457	9,826	9,820
1	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	(
		type-lla	nos		25,167	• • •	5,033	0	20,134	- {
	Sub-total					475,284		= 95,057	,	380,227
	Canal Structur	es (Grade	В) 🗀	: 100%	7.7.7.	· · ·				
1	Intake	type-li	nos	2.1	333,543	0	66,709	0	266,834	(
		type-Ili	nos		127,233	0	25,447	0	101,787	: (
2	Tornout	type-It	nos		36,136	0		Ü	28,909	ì
		type-lit	nos	3	24,036	72,108	4,807	14,422	19,229	57,687
3	Regulator	type-Ir	nos	1	62,564	0	12,513	0	50.052	37,007
	· ·	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,609
4	Drop	type-ld	nos		80,731	0 0	16,146	10,052		· · · · · · · · · · · · · · · · · · ·
-		type-lid	nos	, ₁ :	33,170	33,170			64,585	26.526
5	Under Crossing			. 1			6,634	6,634	26,536	26,536
.,	Onder Crossing		nos		65,198	60,505		0	52,159	
۲.	Caillings	type-llu	nos	1 .	60,606	60,606	12,121	12,121	48,485	48,485
U	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	(
•	0 0	type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,245
,	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	(
_	_	type-llo	nos	1	106,982	106,982	21,396	21,396	85,586	85,586
3	Parshall Flume	type-Ip	nos		18,312	. 0	3,662	0	14,649	(
	1	type-llp	nos		12,283	. 0	2,457	ŏ	9,826	Ò
)	Aqueduct	type-la	nos		2,906,525	Ŏ	581,305	Ŏ	2,325,220	· · · · · · · · · · · · · · · · · · · ·
	•	type-lla	nos	1	25,167	Ŏ	5,033	0	20,134	Č
	Sub-total) E =			20,101	406,434	0,000	81,287	20,134	
-								01,207		325,147
:	Total					938,444		187,689		750,755

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme - Urubokká Oya Scheme - (10/16)

		Unit	Quantity	Total Co	ist (Rs)	Forein Curr	rency (Rs)	Local Curr	ency (Rs)
Construction Worl	ks		•	Unit price	Amount	Unit price	Amount	Unit price	Amou
Canal Works						- 4.0		2111	
ty	ype-Bl	ខា		2,701	0	540	0	2,161	
tý	ype-Bli	កា		2,260	0	452	0	1,808	
	ype-BIII	m	•	2,211	0	442	• 0	1,769	
ti	ype-BIV	m		2,051	. 0	410	0	1,641	
· į	ype-BV	m		1,829	0	366	0	1,463	
	ype-BVI	m		1,416	0	283	0	1,133	
	ype-BVI	m		1,185	0	237	0	948	
	ype-El	m	3,800	430	1,635,741	86	327,148	344	1,308,59
	ype-EII	m	•	349	0	70	0	280	•
	ype-Elli	m	-	300	0	60	0	240	
	ype-EIV			63	0	13	0	50	
Sub-total .	, pc 2				1,635,741		327,148		1,308,59
. Canal Structures	Grade	CY 1			an Afrika dafa aran				
	ype-li	nos		333,543	. 0	66,709	0	266,834	
	ype-lli	nos		127,233	ŏ	25,447	Ō	101,787	
	ype-li	nos		36,136	ŏ	7,227	Ō	28,909	
	ype-lit	nos		24,036	ŏ	4,807	Ů	19,229	
	ype-nt ype-Ir	nos	:	62,564	. ŏ		ŏ	50.052	
o Keguiatoi t	ype-IIr	nos		46,630	ŏ		Ŏ	37,304	
	ype-Id	nos		80,731	Ö		: 0	64,585	
		nos		33,170	ŏ		ŏ	26,536	
	ype-lid			65,198	ŏ		ŏ	52,159	
5 Under Crossing t		nos		60,606	ŏ		ŏ	48,485	
	ype-llu	nos		80,613	ŏ		ŏ	64,491	
	ype-Iw	nos		40,307	ő	- · •	ŏ	32,245	
	ype-llw	nos			· ŏ		· ŏ	165,318	
	yoe-to	nos		206,648	Ů		ŏ	85,586	
	ype-llo	nos		106,982	ŏ		Ö	14,649	
-8 Parshall Flume t		nos		18,312	ő		Ü	9.826	
	ypé-llp			12,283	ő		ŏ	2,325,220	
	ype-la	nos		2,906,525			0	20,134	:
	ype-lla	nos		25,167	0	•	0	20.154	
Sub-total	*275 72 12	123	TO A COLOR	lata a ta ala a	<u>.</u> Y				
. Canal Structures			: 100%	222 542	0	66.700	0	266,834	
-1 Intake t	ype-li	nos		333,543	0		ŏ	101,787	
	ype-lli	nos		127,233			ŏ	28,909	
	ype-lt	nos		36,136	0		Ü		
	ype-IIt	nos		24,036	0		The second second	19,229	
. •	lype-lr	nos	•	62,564	. : 0		0	50,052 37,304	
	lype-llr	nos	1 "	46,630	0		0	64,585	
	type-Id	nos		80,731	0		0	26,536	
	type-lld	nos		33,170	. 0		0		
-5 Under Crossing 1		nos		65,198	0		0	52,159	
	type-llu	nos		60,606	0		0	48,485	
	lype-Iw	nos		80,613	. 0		0	64,491	
		nos		40,307	004 4 40		0	32,245	
	type-lo	nos		206,648	206,648		41,330	165,318	165,3
	type-Ilo	nos		106,982	320,947		64,189	85,586	256.7
-8 Parshall Flume		nos	1	18,312	18,312		3,662	14,649	-14,6
14 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	type IIp	nos		12,283	0		0	9,826	
	type Ia	nos		2,906,525	. : 0		: 0	2,325,220	4
	type-lia	nos		25,167	0		0	20,134	
Sub-total				<u> </u>	545,906		109,181		436,7

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme Urubokka
- Urubokka Oya Scheme - (11/16)

U-11 Pothuwewa Tank Local Currency (Rs) Total Cost (Rs) Forein Currency (Rs) Unit Quantity Construction Works Amount Unit price Unit price Unit price Amount 1. Canal Works 2,701 540 2,161 type-Bl type-BII 1,808 2,260 452 0 m type-BIII 2,211 442 1,769 0 m 2,051 410 1,641 O 0 0 type-BIV m type-BV 1,829 0 366 0 1,463 กา type-BVI 283 1,133 1,416 m 0 237 948 type-BVI 1,185 m type-El 0 430 86 1 344 ß type-Ell 349 0 70 0 280 0 m 300 0 60 0 240 0 type-EIII m type-EIV 1,800 113,452 13 22,690 90,762 63 Sub-total 113,452 22,690 90,762 2. Canal Structures (Grade C) 333,543 127,233 2-1 Intake 66,709 Û 266,834 tyce-li type-lli 0 25,447 Ü 101,787 0 nos 36,136 0 7,227 28,909 2-2 Turnout type-lt nos 24,036 19,229 57,687 72,108 14,422 3 4,807 type-llt nos 50,052 2-3 Regulator 62,564 0 12,513 type-ir nos type-lir 93,261 9,326 18,652 37,304 74,609 46,630 nos 64,585 16,146 2-4 Drop 80,731 type-Id nos 26,536 6.634 26,536 33,170 type-lld 33,170 6,634 2-5 Under Crossing type-lu nos 65,198 13,040 52,159 type-IIu 60,606 12,121 48,485 48,485 60,606 12,121 nos 64.491 type-lw 16.123 2-6 Spillway nos 80.613 40,307 type-llw 8,061 32,245 40,307 8,061 32,245 2-7 Over Bridge type-lo 206,648 41,330 165,318 nos 106,982 21,396 21,396 85.586 85,586 type-lio 106,982 nos 3,662 14,649 2-8 Parshall Flume 18,312 Ó type-Ip nos 12,283 2,457 9,826 type-llp 12,283 2,457 9,826 type-la 2-9 Aqueduct 2,906,525 0 581,305 2,325,220 nos type-lla 25,167 5,033 0 20,134 nos 83,743 Sub-total 418,717 334,974 : 100% Canal Structures (Grade B) type-li 3-1 Intake 333,543 66,709 266,834 0 nos type lli 127,233 101,787 0 25,447 0 0 nas 7,227 28,909 3-2 Turnout type It nos 36,136 () 0 0 144,217 28,843 type-llt 6 24,036 4,807 19,229 115,373 nos type Ir 12,513 50,052 3-3 Regulator 62,564 nos type-llr 3 46,630 139,891 9,326 27,978 37,304 111,913 nos 64.585 80.731 16,146 3-4 Dróp type id nos 4) type-Ild 33,170 66,341 6,634 13,268 26,536 53,073 3-5 Under Crossing type-Iu 65,198 13,040 52,159 nos type-liu 96,969 2 60,606 121,211 12,121 24,242 48.485 nos 3-6 Spillway 80,613 64,491 type-Iw nos 0 16.123 80,613 16,123 64,491 type-llw 40,307 8,061 32,245 1105 3-7 Over Bridge type-lo 206,648 41,330 165,318 nos 213,964 2 106.982 21,396 42,793 85,586 171,172 type-llo nos 3-8 Parshall Flume 18,312 3,662 n 14,649 type-lp nos n Λ type-IIp 12,283 2,457 9,826 0 nos type Ia 581,305 0 3-9 Aqueduct nos 2,906,525 2,325,220 25,167 5.033 20.134 25,167 5,033 20,134 type-IIa nos 791,405 158,281 Sub-total 633,124 Total 1,323,574 264,715 1,058,859

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (12/16)

	type-BI		Quantity	Total Cos Unit price		Forein Curre Unit price	Amount	Unit price	Amount
Canal Works	type-BI				F3110/4116	V	FEITAGUE	Omi pince	Amount
		ខា		2,701	0	540	0	2,161	C
· ·	type-BH	m		2,260	0	452	. 0	1,808	•
	type-BIII	m		2,211	0	442	0	1,769	Ç
	type-BIV	m		2,051	0	410	. 0	1,641	(
	type-BV			1,829	0	366	1.0	1,463	(
	type-BVI			1,416	0	283	0	1,133	. (
	type-BVI			1.185	0	237	. 0	948	· (
	type-El	m		430	0	86	0	344	
	type-Ell	m		349	0	70	0	280	1
	type Elli		:	300	0	60	0	240	- 1
	type EIV		700	63	44,120	13	8,824	50	35,29
Sub-total	type-lact		700		44,120		8,824		35,29
, Canal Structure	es (() rade	TCY .							
	type-li	nos	;	333,543	0	66,709	: 0	266,834	
-1 IIIIako	type-Ili	nos		127,233	0		0	101,787	
-2 Tumout	type-It	nos		36,136	ŏ		. 0	28,909	
-2 I UIIIVUI	type-llt	nos	ì	24,036	24,036		4,807	19,229	19,22
-3 Regulator	type-iri	nos	1	62,564	24,030		i 0	50,052	
· 5 Regulator	type-IIr	nos	1	46,630	46,630		9,326	37,304	37,30
4 Dece	type-lo	nos	•	80,731	0		. 0	64,585	•
-4 Drop	type-IId			33,170	ŏ		Ō	26,536	
C. Hadas Crassina		nos		65,198	ŏ		0	52,159	
-5 Under Crossing	type-iu			60,606	ŏ		Ŏ	48,485	
4 C=:11	type-llu	nos		80,613	ŏ		ŏ	64,491	
-6 Spillway	type-lw	nos nos		40,307	ŏ		Ŏ	32,245	
2 Over Bridge	type-llw	nos		206,648	ŏ	• .	0	165,318	
-7 Over Bridge	type-lo	nos		106,982	ŏ		0	85,586	:
O Darchall Elumia		nos		18,312	ŏ		0	14,649	
-8 Parshall Flume				12,283	12,283		2,457	9,826	9,87
() Annadasah	type-llp	nos		2,906,525	0		0	2,325,220	
-9 Aqueduct 🗀 🗀	type-la	nos		25,167	ŏ		Ō	20,134	
Cub total	type-IIa	nos		23,107	82,950	•	16,590		66,30
Sub-total Canal Structur	oo (C'rode	NBY"	1000						
		nos		333,543	0	66,709	0	266,834	
-1 Intake	type-li	nos		127,233	Ď		0	101,787	
	type-lli			36,136	ď		. 0	28,909	
-2 Turnout	type-It	008		24,036	48,072		9,614	19,229	38,4
2 Danulatas	type-llt :	nos nos		62,564	10,072		ò	50,052	
-3 Regulator	type-ir			46,630	46,630		9,326	37,304	37,3
A Dean	type-lir	nos	_	80,731	40,030		0	64,585	
4 Drop	type-ld	nos		33,170	33,170	11.	6,634	26,536	26,5
C Hadar Pranta-	type-lld	nos		65,198	33,170		0	52,159	:
1-5 Under Crossing	type-tu	nos		60,606	60,606		12,121	48,485	48,4
(Callinar	type-llu	nos		80,613	00,000		0	64,491	
6 Spillway	type-Iw	nos		40,307		8,061	8,06Ĭ	32,245	32,2
o a . O Dalda -	type-liw			206,648		41,330	0,001	165,318	00,0
1-7 Over Bridge	type-lo	nos		106,982		21,396		85,586	85,5
0 D 177	type-llo	nos		18,312	100,782		0	14,649	,-
8-8 Parshall Flume		nos	_		Ö			9.826	
 	type-llp	nos		12,283 2,906,525	Č		ŏ	2,325,220	
3-9 Aqueduct	type-la	nos			Č		ŏ	20,134	=
	type-lla	nos		25,167	335,768		67,154	20110	268,6
Sub-total	l				333,100	·	01,137		
Total					462,837	,	92,567		370,2

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme
- Urubokka Oya Scheme - (13/16)

			Unit	Quantity	Total C	ost (Rs)	Forein Cur	rency (Rs)	Local Curre	ncy (Rs)
	Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amour
	Canal Works					_				
		type-BI	m		2,701	0	540	0	2,161	
		type-BII	กา		2,260	0	452	0	1,808	1
		type-BIII			2,211	0	442	0	1,769	;
		type-BIV	· m		2,051	0	410	O	1,641	
		type-BV	្រា		1,829	0	366	0	1,463	
		type-BVI	ni		1,416	0	283	0	1,133	
		type-BVI	m		1,185	0	237	0	948	
		type-El	· m		430	0	86	0	344	:
		type-Ell	m		349	0	70	0	280	
		type-EIII	m	·	. 300	0	60	0	240	
		type-EIV	m	1,700	63	107,149	13	21,430	50	85,72
	Sub-total				•	107,149		21,430		85,72
	Canal Structure	s (Grade	C)							
:-1		type-li	nos		333,543	0	66,709	0	266,834	
		type-lli	nos		127,233	0	25,447	0	101,787	
2-2		type-It	nos		36,136	0	7,227	0	28,909	
		type-llt	nos	2	24,036	48,072	4,807	9,614	19,229	38,43
2-3		type-ir	nos		62,564	0	12,513	0	50,052	- • • •
		type-ilr	nos	. 1	46,630	46,630	9,326	9,326	37,304	37,30
-4		type-Id	nos		80,731	0	16,146	0	64,585	1
•		type-IId	nos	1	33,170	33,170	6,634	6,634	26,536	26,53
-5	Under Crossing		nos		65,198	0	13,040	0	52,159	,;
•	Chief Crossing	type-IIu	nos	1	60,606	60,606	12,121	12,121	48.485	48,48
-6	Spillway	type-Iw	nos	·	80,613	0	16,123	0	64,491	-, -,
_	·	type-llw	nos	· 1	40,307	40.307	8,061	8,061	32.245	32,24
2-7	Over Bridge	type-lo	nos	-	206,648	0	41,330	0	165,318	,-
•		type-llo		. 1	106,982	106,982	21,396	21,396	85,586	85.58
-8	Parshall Flume	type-In	nos	•	18,312	0	3,662	0	14,649	00,00
		type-lip	nos	. 1	12,283	12,283	2,457	2,457	9.826	9,82
2.9	Aqueduct	type-la	nos		2,906,525		581,305		2,325,220	2,0.
-		type-lla	nos		25,167	ŏ	5,033	ŏ	20,134	
	Sub-total	type III	11.03	* •	23,107	348,051	3,055	69,610	20,151	278,44
ì."``	Canal Structure	s /Crade	Bi	: 100%			- -			
		type-li	nos	. 20070	333,543	0	66,709	0	266,834	
•		type-Ili	nos		127,233	ŏ	25,447	ŏ	101.787	1 1
-2		type-It	nos		36,136	ŏ	7,227	ŏ		
-		type-lit	nos	5	24,036	120,180	4,807	24,036	19.229	96,1
-3	Regulator	type-ir	nos		62,564	0	12,513	0	50.052	
_		type-IIr	nos	. 3	46,630	139,891	9,326	27,978	37,304	111,9
.4		type-Id	nos		80,731	0	16,146	0	64,585	* * * 9 */.
•		type-lld	nos	. 2	33,170	66,341	6,634	13,268	26.536	53,0
.5	Under Crossing	type-lu	nos	-	65,198	0,547	13,040	15,200	52,159	
	Charl Crossing	type-llu		2	60,606	121,211	12,121	24,242	48,485	96,96
۸.	Spillway	type-Iw	nos	_	80,613	0	16,123	0	64,491	, , , ,
•	-piiinuj	type-llw	nos	2	40,307	80,613	8,061	16,123	32,245	64,49
.7	Over Bridge	type-lo	nos	~	206,648	0,0.9	41,330	0	165,318	υτ, τ.
,	OTOL BITOES	type-IIo	nos	2	106,982	213,964	21,396	42,793	85,586	171.1
Ŷ	Parshall Flume		nos	-	18,312	213,304	3.662	0	14,649	177,1
Φ.	a arangur 1 Tunik	type-lip	nos		12,283	ŏ	2,457	· 0	9,826	
o	Aqueduct	type-lip	1		2,906,525	0			2,325,220	
- 7	rquivoct	type-IIa	nos nos	1	25,167	25,167	5,033	5,033	20,134	20,13
	Sub-total		1103	; :		767,369		153,474	2V,1J4	613,89
·										

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

				1 .	- Urub	okka Oy	a Sche	me - (14	4/16)	
U-1	4 Ranasinhagan	na Tank	ligit	Quantity	Total Co	net (Re)	Forein Ou	rency (Rs)	Local Curr	ancy (De)
	Construction We	orks	Onic	Samuri,	Unit price		Unit price	Amount	Unit price	Amoue
Τ.	Canal Works				- Om parce	741100114	Olik pile	Miloute	Ome price	A STATE OF THE STA
	Culture VIOLES	type-B1	m		2,701	O	540	. 0	2,161	(
		type-Bit	m		2,260	ŏ	452	Ŏ	1,808	(
		type-Bill	m		2,211	ŏ	442	ŏ	1,769	ì
		type BIV	m		2,051	ŏ	410	ŏ	1,641	ì
	1	type BV	m		1,829	ŏ	366	ŭ	1,463	· (
		type-BVI	m		1,416	ŏ	283	ŏ	1,133	
		type-BVI			1,185	ŏ	237	ŏ	948	
		type-El	m		430	ŏ	86	ŏ	344	,
		type EII	m		349	ŏ	70	Ö	280	ì
		type-EIII	m		300	ŏ	60	ŏ	240	
		type-EiV		2,000	63	126,058	13	25,212	50	100,84
	Sub-total		•,,•	2,000	03	126,058	13	25,212	. 30	
2.	Canal Structur		77			120,036		23,212		100,84
	Intake				222 542	Λ	66 700	Λ	266 024	
Z-1	mary	type-li type-lli	nos		333,543 127,233	0	66,709 25,447	0	266,834	,
2.2	Tumout		nos			o o			101,787	(
Z-Z	LUINOUL	type-lt	nos	3	36,136		7,227	14.422	28,909	57 40
2.2	Regulator	type-llt	nos		24,036 62,564	72,108	4,807	14,422	19,229	57,68
2-3	Regulator	type-lr	nos	2		02.261	12,513	19.450	50,052	
2.4	Dean	type-lir	nos	Z	46,630	93,261	9,326	18,652	37,304	74,60
2-4	Drop	type-Id	nos		80,731	22 170	16,146	6.624	64,585	06.60
16	Hadaa Cassalaa	type-lid	nos	. 1	33,170	33,170	6,634	6,634	26,536	26,53
2-3	Under Crossing		nos		65,198	60.606	13,040	10.10	52,159	40.40
3 2	Cattlanan	type-llu	nos	j	60,606	60,606	12,121	12,121	48,485	48,48
2-0	Spillway	type-lw	nos		80,613	. 0	16,123	. 0	64,491	
	A 9	type-ilw	nos	1	40,307	40,307	8,061	8,061	32,245	32,24
2-1	Over Bridge	type-lo	nos		206,648	0	41,330	01.204	165,318	05.50
1 0	DV-31 [7]	type-ilo	nos	i	106,982	106,982	21,396	21,396	85,586	85,58
2-8	Parshall Flume		nos		18,312	10.003	3,662	0	14,649) بغدا دا
- I.		type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,82
2-9	Aqueduct	type-la	DOS		2,906,525	. 0	581,305	0	2,325,220	!
	0.3.4.4.1	type-IIa	nos		25,167	0	5,033	0	20,134	: aá 10m
·	Sub-total		111	- taner		418,717		83,743		334,97
	Canal Structur			: 100%	222.542				245.02.4	
	Intake	type-li	nos	1	333,543	0	66,709	0	266,834	1 1 (
10	(1)	type-lli	nos	11.	127,233	. 0	25,447	0	101,787	(
3-2	Tumout	type-lt	nos		36,136	0		0	28,909	
	B	type-llt	nos	6	24,036	144,217	4,807	28,843	19,229	115,37
3-3	Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	
		type-lir	nos	3	46,630	139,891	9,326	27,978	37,304	111.91
3.4	Drop	type-ld	nos	_	80,731	0	16,146	0	64,585	
		type-lid	nos	2	33,170	66,341	6,634	13,268	26,536	53,07
3-5	Under Crossing	(ype-lu	nos		65,198		13,040	0	52,159	. (
		type-liu	nos	: 2	60,606	121,211	12,121	24,242	48,485	96,969
3-6	Spillway	type-lw	nos	_	80,613	0	16,123	0	64,491	(
		type-liw	nos	2	40,307	80,613	8,061	16,123	32,245	64,49
3-7	Over Bridge	type-lo	nos	_	206,648	0	41,330	0	165,318	(
. :-		type-ilo	nos	2	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	
		type-lip	nos		12,283	0	2,457	0	9,826	(
3-9	Aqueduct	type-la	nos		2,906,525	0	581,305		2,325,220	
-		type-IIa	nos	1	25,167	25,167	5,033	5,033	20,134	20,134
	Sub-total					791,405		158,281		· 633,124

1,336,180

Total

267,236

App.5.3-3 Construction Cost of Muruthawela Reservoir Scheme

Urubokka

- Urubokka Oya Scheme - (15/16)

		Unit	Quantity	Total Co	ost (Rs)	Forein Cun	rency (Rs)	Local Curi	ency (Rs)
Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amour
. Canal Works									
•	type-Bl	m		2,701	0	540	0	2,161	1
	type-Bll	m		2,260	0	452	0	1,808	1
	type-BIII	m		2,211	0	442	0.	1,769	
	type-BIV	ខា		2,051	0	410	0 -	1,641	
•	type-BV	ា	*	1,829	. 0	366	0.	1,463	
	type-BVI	m		1,416	0	283	0	1,133	
	type-BVI	· m	•	1,185	0	237	- 0	948	
•	type-EI	m		430	. 0	86	. 0	344	
	type-Ell	m		349	0	70	. 0	280	
	type-EIII	m	3,100	300	930,449	60	186,090	240	744,35
	type-EIV		-,	63	0	13	0	50	
Sub-total		•••		**	930,449		186,090		744,35
. Canal Structure		ĊY 1			272222		13.4.31.1.3	• -:	
-1 Intake	type-li	nos		333,543	0	66,709	0	266,834	
- 1111111111111111111111111111111111111	type-lli	nos		127,233	ŏ	25,447	· ŏ	101,787	
-2 Turnout	type-lt	nos		36,136	ő	7,227	·ŏ	28,909	
-2 Idniodi	type-lit	nos	4	24,036	96,144	4,807	19,229	19,229	76,91
-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	
-5 Regulator	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,60
-4 Drop	type-ld	nos	L	80,731	0	16,146	0	64,585	1-7,00
-4 Diop	type-IId		1	33,170	33,170	6,634	6,634	26,536	26,53
-5 Under Crossing		nos		65,198	0.00	13,040	0,054	52,159	20,50
-5 Olider Crossing	type-llu		1	60,606	60,606	12,121	12,121	48,485	48,48
6 Callings				80,613	00,000	16,123	0	64,491	40,40
-6 Spillway	type-lw	nos	1	40.307	40,307	8,061	8,061	32,245	32,24
.7. Oure Beides	type-llw	nos	. 1	206,648	+0,307	41,330	0,001	165,318	
•7 Over Bridge	type-lo	nos	1		106,982	21,396	21,396		85,58
9 Danahall Clumia	type-llo	nos	1	106,982				85,586	00,00
2-8 Parshall Flume		nos	2	18,312	24566	3,662	4012	14,649	
O Annados	type-llp	nos		12,283	24,566	2,457	4,913	9,826	19,63
2-9 Aqueduct	type-la	nos		2,906,525	0	581,305	· 0	2,325,220	
Cub total	type-ila	nos	:	25,167	455.026	5,033	· · · · · · · · · · · · · · · · · · ·	20,134	2640
Sub-total		:uv:	1000	:	455,036		91,007		364,02
. Canal Structure			: 100%	222 542	0	66,709	0	266,834	11/1/1
3-1 Intake	type-li	nos		333,543	4 0		. 0.		
	type-lli	nos	. 1	127,233	ő	25,447			
3-2 Turnout	type-lt	nos	: 0	36,136			42.265		172 0
2 Beaulotes	type-lit	nos	9	24,036	216,325	4,807	43,265	19,229	173,00
-3 Regulator	type-lr	nos	: -	62,564	0 222 162	12,513	46.620	50,052	
4.0	type-llr	nos		46,630	233,152	9,326	46,630		186,52
-4 Drop	type-Id	nos	A CONTRACTOR OF THE CONTRACTOR	80,731	00.511	16,146	10.000	64,585	20.77
. 6 11 1 ()	type-lld			33,170	99,511	6,634	19,902		79,60
-5 Under Crossing		nos	_	65,198	0	13,040	0		1.45.4
	type-llu	nos		60,606	181,817	12,121	36,363	48,485	145,43
-6 Spillway	type-lw	กดร		80,613	0	16,123	0	64,491	
	type-IIw	nos		40,307	120,920	8,061	24,184	32,245	96,7.
3-7 Over Bridge	type-lo	nos	_	206,648	0		0	165,318	
	type-llo	nos		106,982	320,947	21,396	64,189	85,586	256,7
-8 Parshall Flume	type-lp	nos		18,312	. 0	3,662	0	14,649	
	type-IIp	nos		12,283	0	2,457	. 0	9,826	
		nos		2,906,525	0	581,305	0	2,325,220	
-9 Aqueduct	type-la	1103							
3-9 Aqueduct	type-lla	nos		25,167	25,167	5,033	5,033	20,134	20,13
-9 Aqueduct Sub-total	type-lla				25,167 1,197,839				20,13 958,27

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

U-16 Netolpitiya Ta		Unit	Quantity	Total C	ost (Rs)	Forein Cu	rrency (Rs)	Local Curr	ency (Rs)
Construction W	orks			Unit price	Amount	Unit price	Amount	Unit price	Amoun
. Canal Works									
	type-BI	m		2,701	0	540	0	2,161	
	type-BII	m		2,260	0	452	0	1,808	(
	type BIII	m		2,211	0	442	O	1,769	(
	type BIV	m		2,051	0	410	0	1,641	(
	type BV	m		1,829	0	366	0	1,463	
	type-BVI	m		1,416	Ú	283	U	1,133	
	type-BVI			1,185	0	237	0	948	4
	type-El	m		430	0	86	0	344	1
	type-Ell	m		349	ŏ	70	Ó	280	1
	type-EIII	m	700	300	210,101	60	42,020	240	168,08
:			700	63	0	13	0	50	100,00
Sub-tota	type-EIV	m		0,5	210,101		42,020		168,08
		775			210,101	· · · · · · · · · · · · · · · · · · ·	42,020		100,00
2. Canal Structui				222 642	۸	24 700	Λ	266 924	
2-1 Intake	type li	nos		333,543	0	66,709	0	266,834	(
	type Ili	nos		127,233	0	25,447	0	101,787	
2-2 Turnout	type-lt	nos		36,136	0.4024	7,227	1 207	28,909	10.00
	type-IIt	ព០ទ	1	24,036	24,036	4,807	4,807	19,229	19,22
2-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	07.00
	type-IIr	nos	1	46,630	46,630	9,326	9,326	37,304	37,30
2-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585	
•	type-IId	nos		33,170	0	6,634	0	26,536	
2-5 Under Crossing	type-Iu	nos		65,198	- 0	13,040	. 0	52,159	
	type-liu	nos		60,606	0	12,121	0	48,485	
2-6 Spillway	type-Iw	nos	•	80,613	0	16,123	0	64,491	1
	type-llw	nos		40,307	0	8,061	0	32,245	i
2-7 Over Bridge	type-io	nos		206,648	. 0		0	165,318	13
D 7 O ICI DILOGO	type-llo	nos		106,982	0	21,396	. 0	85,586	
2-8 Parshall Flume		nos		18,312	Ŏ	3,662	0	14,649	*
CO Taishall I tulic	type-llp	nos	1 /	12,283	12,283		2,457	9,826	9.82
3 D. Aguaduct	type-ia	nos	•	2,906,525		581,305	2,0	2,325,220	,,-2
2-9 Aqueduct			. 1	25,167	25,167	5,033	5,033	20.134	20,13
Cult tota	type-lla	nos		23,107	108,117	5,055	21,623	20,134	86,49
Sub-tota		ะยร	1600		100,117		21,023		00,42
3. Canal Structu			: 100%	222 542	0	COT AA	0	266,834	
3-1 Intake	type-li	поѕ		333,543	4.7		ő	101,787	
	type-lli	nos		127,233	0				
3-2 Turnout	type-It	nos		36,136	0		0	28,909	
	type-llt	nos	2	24,036	48,072		9,614	19,229	38,45
3-3 Regulator	type-ir	nos		62,564	0		0	50,052	00.00
	type-llr	nos	1	46,630	46,630		9,326	37,304	37,30
3-4 Drop	type-ld	nos		80,731	0		0	64,585	
	type IId	nos	1	33,170	33,170		6,634	26,536	26,53
3-5 Under Crossing	g type-lu	nos		65,198	0		0	52,159	
•	type-llu	nos	1	60,606	60,606		12,121	48,485	48,48
3-6 Spillway	type-Iw	nos		80,613	0		0	64,491	
	type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,24
3-7 Over Bridge	type-lo	nos		206,648	. 0	41,330	0	165,318	
	type-llo	nos		106,982	106,982	21,396	21,396	85,586	85,58
3-8 Parshall Flume		nos		18,312	0		0	14,649	· .
	type-llp	nos		12,283	0		0	9,826	
3-9 Aqueduct	type-Ia	nos		2,906,525	ŏ		Ŏ	2,325,220	17754
2-2 Adacaoci				25,167	ŏ		ŏ	20,134	100
C.A. 4-1-	type-lla	zon		23,107	335,768	5,055	67,154	20,134	268,61
Sub-tota	11				333,700		07,104		
Total					653,986		130,797		523,18
High Level Ca	mal Total				10,702,562		2,140,512		8,562,05

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme - Kirama Oya Scheme - (1/18)

	:	<u></u>	Unit	Quantity		ost (Rs)		rrency (Rs)	Local Currency (Rs)		
	Construction Wo	orks			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1.	Canal Works										
		type-BI	n		3,607	0	721	0	2,885	O	
		type-BII	m		2,984	U	597	. 0	2,388	C	
		type-BIII	m		2,754	0	551	0	2,203	C	
		type-BIV	m		2,413	0	483	0	1,931	(
		type-BV	m		2,010	0	402	0	1,608	ί	
		type-BVI	m	5,600	1,561	8,740,110	312	1,748,022	1,249	6,992,088	
		type-BVII		2,000	1,294	0,10,110	259	0	1,035	0,772,000	
					430	ő	-	ŏ	344	č	
	•	type-EI	m			0		_			
		type-Ell	m		349	-	70	0	280	Ç	
	•	type-Elll	U.J		300	0	60	. 0	240	Ç	
		type-EIV	m		63	0	13	0	50		
	Sub-total					8,740,110		1,748,022		6,992,088	
	Anicut (Grade	C)									
2-1	Body		nos		1,407,754		281,551	0	1,126,203		
2-1	Gate		nos	4	280,000	1,120,000	56,000	224,000	224,000	896,000	
2-3	Revetment		กดร		208,841	0	41.768	. 0	167,073		
	Spill		nos		705,212		141.042	÷ŏ	564,170	Č	
	Sub-total					1,120,000	,	224,000		896,000	
	Anicut (Grade	· 50%		- 1		1,120,000		227,000		370,000	
_		. 3070	000	1	702 027	702 077	140 275	140 226	562 100	562 IM	
	Body		nos	. 1	703,877		140,775	140,775	563,102	563,102	
	Gate		nos		140,000	0	28,000	0 00 00 4	112,000	On coc	
	Revetment		nos	1.	104,420	104,420	20,884	20,884	83,536	83,536	
,-4	Spill	•	nos		352,606	0	70,521	0	282,085	C	
	Sub-total					808,297		161,659		646,638	
	Canal Structur	es (Grade (L) (
- j	intake	type-h	nos		333,543	. 0	66,709	0	266,834	C	
		type-Ili	nos	1	127,233	127,233	25.447	25,447	101,787	101,787	
-2	Turnout	type-It	nos	, -	36,136	0	7.227	0	28,909	0	
~	- 5111001	type-llt	nos	4	24,036	96,144	4.807	19,229	19,229	76,915	
1	Regulator			"1 "	62,564	0,144	12,513	13,229	50,052	70,913	
و	evekojatoj	type-ir	nos							-	
	e e e e e e e e e e e e e e e e e e e	type-lir	nos	2	46,630	93,261	9,326	18,652	37,304	74,609	
-4	Drop	type-ld	nos		80,731	0	16,146	0	64,585	: : 0	
_		type-lld	nos		33,170	33,170	6.634	6,634	26,536	26,536	
• 5	Under Crossing		nos		65,198	0	13,040	0	52,159	Ü	
		type-llu	nos	. 1	60,606	÷ 60,606	12,121	12,121	48,485	48,485	
-6	Spillway	type-Iw	nos		80,613	0	16,123	0	64,491	, O	
		type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,245	
-7	Over Bridge	type-lo	nos	1 - 1 -	206,648	0	41.330	0	165,318	C	
		type-llo	nos	() i	106,982	106,982	21,396	21,396	85,586	85,586	
.8	Parshall Flume		nos	-	18,312	0	3.662	0	14.649	05,500	
	Taronasia Iniino	type-llp	nos	1	12,283	12.283	2,457	2,457	9,826	9,826	
a	Aqueduct	type-lip			2,906,525	12,203	581,305	2,437	2,325,220		
7	Aqueouci		nos			_				0	
	P. L 11	type-IIa	nos		25,167	640.097	5,033	112.007	20,134	455,000	
	Sub-total	761==1=1	ns	. 1002		569,987		113,997		455,989	
٠.	Canal Structur			: 100%	222 5 . 2	_		_	064.004	_	
٠ĺ	Intake	type-li	nos		333,543	0	66,709	0	266,834	Q	
	<u>+</u>	type-lli	nos		127,233	0	25,447	0	101,787	, 0	
-2	Turnout	type-It	nos		36,136	0	7,227	0	28,909		
	-	type-lit	nos	10	24,036	240,361	4,807	48,072	19,229	192,289	
-3	Regulator	type-Ir	nos	:	62,564	0	12,513	0	50,052	:	
-		type-llr	nos	5	46,630	233,152	9,326	46,630	37,304	186,522	
À	Drop	type-Id	nos		80,731	235,152	16.146	0,030	64,585	100,522	
7	2.05	type-lid		3	33,170	99,511	6,634	19,902	26,536	79,609	
•	Hodar Crassina		nos								
٠,	Under Crossing		nos	^	65,198	101.013	13,040	26 262	52,159		
	0.30	type-IIu	nos	3	60,606	181,817		36,363	48,485	145,454	
0	Spillway	type-Iw	nos		80,613	0	16,123	1 0	64,491	0	
_	1 1	type-llw	nos	3	40,307	120,920	8,061	24,184	32,245	96,736	
-7	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318		
•		type-llo	nos	3	106,982	320,947	21,396	64,189	85,586	256,757	
-8	Parshall Flume	type-Ip	nos	•	18,312	0	3,662	0	14,649	,	
-		type-llp	nos		12,283	ŏ	2,457	ŏ	9,826	č	
0	Aqueduct	type-la	nos		2,906,525	ŏ	581,305	ő	2,325,220	ď	
,	Aqueouet	type-lla		2		50,334	5,033	10,067		7	
	Call tast		nos	Z	25,167		2,033		20,134	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 Oya Scheme - (2/18)

4-2	Turnout	type-lt type-llt	nos nos	3	36,136 24,036	72,108	7,227 4,807	14,422	28,909 19,229	57,687
4-3	Regulator	type-Ir	nos		62,564		12,513	0	50,052	0
	Drop	type-llr type-ld	nos nos	1	46,630 80,731	46,630 0	16,146	9,326	37,304 64,585	37,304 0
	.a	type-lid	nos nos	j	33,170 65,198	33,170 0		6,634 0	26,536 52,159	26,536 0
	Under Crossing	type-llu	nos	1	60,606	60,606	12,121	12,121	48,485	48,485 0
4-6	Spillway	type-Iw type-IIw	nos nos	. 1	80,613 40,307	0 40,307	8,061	8,061	64,491 32,245	32,245
4-7	Over Bridge	type-lo	nos	,	206,648	0 106,982	41,330	0 21,396	165,318 85,586	0 85,586
4-8	Parshall Flume	type-llo type-lp	nos nos	1	106,982 18,312	0		21,390	14,649	0
1.14		type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,826
4-9	Aqueduct	type-la	nos		2,906,525	0		0	2,325,220 20,134	0
	Sub-total	type-lla	nos		25,167	499,320		99,864	20,134	399,456
	Canal Structur	es (Grade	B)	: 100%		· · · · ·			966.034	
	Intake	type-li	nos		333,543	0		0	266,834 101,787	0
5-2	Turnout	type-IIi type-It	nos nos		127,233 36,136	0	7,227	0	28,909	0
		type-llt	nos		24,036	144,217	4,807	28,843	19,229	115,373
5-3	Regulator	type-Ir	nos		62,564	0	12,513	27 078	50,052 37,304	111 913
	•	type-llr	nos		46,630 80,731	139,891 n	9,326 16,146	27,978 0	37,304 64,585	111,913
5-4	Drop	type-Id type-IId	nos		80,731 33,170	66,341	6,634	13,268	26,536	53,073
5-5	Under Crossing	type-lld type-lu	nos nos		65,198	00,341		4.0	52,159	0
J-J	Onuci Ciossilig	type-IIu	nos	_	60,606	121,211	12,121	24,242	48,485	96,969
5-6	Spillway	type Iw	nos	1 1	80,613	0	16,123	0	64,491	0
		type-llw	nos	_	40,307	80,613		16,123	32,245	64,491
5.7	Over Bridge	type-lo	nos		206,648	0	41,330	42.202	165,318	131 133
	1 1 7 1	type Ilo	nos	2	106,982	213,964		42,793	85,586 14,649	171,172
5 0	Parshall Flume	type-lp type-llp	nos		18,312	0		0	14,649 9,826	0
20		ryne_iin	nos		12,283	U		· · ·	7,040	U
∤ ≥ .	A 1111 P. 144				2 004 626	. : n	521 2A5	Λ	ኃ ጓንና ኃንበ።	: 0
∤ ≥ .	Aqueduct	type-la	nos		2,906,525	0 25.167		0 5.033	2,325,220 20,134	: 0 20,134
∤ ≥ .	Aqueduct Sub-tota	type-la type-lla			2,906,525 25,167	25,167 791,405	5,033	0 5,033 158,281	2,325,220 20,134	0 20,134 633,124

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (3/18)

Unit Quantity							rency (Rs) Local Cu		rency (Rs)	
Construction Wo	rks		Ç,	Unit price		Unit price	Amount	Unit price	Amoun	
I. Canal Works										
	type-B1	m		3,607	0	721	0	2,885	(
	type-BII	m		2,984	0	597	0	2,388	(
	type-BIII	m		2,754	0	551	• 0	2,203	(
	type-BIV	m		2,413	. 0	483	0	1,931	(
•	type-BV	m		2,010	0	402	0	1,608	(
•	type-BVI	m		1,561	. 0	312	. 0	1,249	(
	type-BVII		:3,400	1,294	4,398,239	259	879,648		3,518,59	
	type-El	m		430	0	86	0	344	(
	type-Ell	n)		349	Ö	70	Ō	280	ì (
	type-Elli	m		300	Ŏ	60	. 0	240	Č	
	type-EIV	m		63	ŏ	13	. Ŏ	50		
Sub-total	type Et i				4,398,239		879,648	•••	3,518,59	
2. Anicut (Grade										
2-1 Body	c,	nos		1,407,754	. 0	281,551	0	1,126,203	. (
2-1 Gate		nos	4		1,120,000	56,000	224,000	224,000	896,000	
2-3 Revetment		nos		208,841	0	41,768	0	167,073	(
2-4 Spill		nos		705,212	-	141,042	ŏ	564,170	ì	
Sub-total		1103		103,212	1,120,000	141,042	224,000	304,170	896,000	
3. Anicut (Grade	- 50@s				1,120,000		224,000		0,00,000	
	. 30 70	200	- 1	703,877	703 877	140,775	140,775	563,102	563,102	
3-1 Body		nos	1	140.000	0.5,877	28,000	140,773	112,000	303,10	
3-2 Gate		nos			-		20,884	83,536		
3-3 Revetment		nos	- 1	104,420 352,606	104,420 352,606	20,884	70,521	282,085	83,530 282,083	
3-4 Spill		nos		332,000		70,321		202,003		
Sub-total		245			1,160,903		232,181		928,72	
4. Canal Structure				222 642	0	£ £ 200		766 014		
4-1 Intake	type-li	nos		333,543	0	66,709	0 25 343	266,834	101.70	
	type-ili	nos	1	127,233	127.233	25,447		101,787	101,78	
4-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909	20.46	
	type-llt	nos	2	24,036	48,072	4.807	9,614	19,229	38,458	
4-3 Regulator	type-lr	nos		62,564	0	12,513	0	50,052	00.00	
	type-Ilr	nos	, s 1	46,630	46,630	9,326	9,326	37,304	37,30	
4-4 Drop	type-Id	nos	F	80,731	0	16,146	. 0	64,585		
	type-Ild	nos	1	33,170	33,170	6,634	6,634	26,536	26,536	
4-5 Under Crossing		nos	4 4 2	65,198	0	13,040	0	52,159		
	type-ilu	nos	1	60,606	60,606	12,121	12,121	48,485	48,48.	
4-6 Spillway	type-lw	nos		80,613	• • • •	16,123	0	64,491	4 * <u>[</u> [] (
	type-llw	nos	1	40,307	40,307	8,061	8,061	32,245	32,24	
4-7 Over Bridge 📑	type-lo	nos	4 4 1	206,648	0	41,330	0	165,318	(
	type-llo	nos	1	106,982	106,982	21,396	21,396	85,586	85,58	
4-8 Parshall Flume	type-lp	nos	* :	18,312	0	3,662	0	14,649		
	type-llp	nos	i ,	12,283	12,283	2,457	2,457	9,826	9,82	
4-9 Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220		
	type-lla	nos		25,167	0	5,033	0	20,134		
Sub-total					475,284		95,057		380,22	
5. Canal Structur		B)	:100%							
5-1 Intake	type-li	nos		333,543	0	66,709	0	266,834		
	type-Ili	nos		127,233	0	25,447	0	101,787	(
5-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909	, (
	type-llt	nos	3	24,036	72,108	4,807	14,422	19,229	57,68	
5-3 Regulator	type-Ir	nos	1.00	62,564	0	12,513	. 0	50,052		
	type-lir	nos	2	46,630	93,261	9,326	18,652	37,304	74,60	
5-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585		
	type-lld	nos	1	33,170	33,170	6,634	6,634	26,536	26,53	
5-5 Under Crossing		nos	:	65,198	0		0	52,159		
	type-llu	nos	1	60,606	60,606	12,121	12,121	48,485	48,48	
5-6 Spillway	type-lw	nos	•	80,613	0	16,123	0	64,491	10,10	
o obmuni	type-llw	nos	1	40.307	40,307	8.061	8,061	32,245	32,24	
5-7 Over Bridge	type-lo	nos		206,648	0,501	41,330	0,001	165,318	32,24	
2-1 OTH DINGE			. 1	106,982	106,982	21,396	21,396	85,586	85,58	
S. Q. Darchall Eluma	type-llo	nos			_					
5-8 Parshall Flume		nos		18,312	0	3,662	0	14,649	· ·	
en contra	type-ilp	nos		12,283	0	2,457	0	9,826		
5-9 Aqueduct	type-la	nos		2,906,525	0	581,305	. 0	2,325,220		
	type-Ila	nos		25,167	0	5,033	0	20,134		
Sub-total					406,434		81,287	<u> </u>	325,14	

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

4 Arachchi Anicu		Unit	Quantity	Total Co		Forein Curr	•	Local Currer	-
Construction Wo	orks			Unit price	Amount	Unit price	Amount	Unit price	Amou
Canal Works				2.407	0	721	. 0	2,885	
	type-BI	m		3,607	0	721	0		
	type-BH	m		2,984	0	597	_	2,388	
	type-BIII	m		2,754	0	551	0	2,203	
	type-BIV	m		2,413	0	483	0	1,931	
	type-BV	m		2,010	0	402	.0	1,608	
	type-BVI	m		1,561	0	312	0	1,249	
	type-BVII		800	1,294	1,034,880	259	206,976	1,035	827,90
	type-El	m	• • •	430	0	86	- 0	344	
	type-Ell	m		349	Ō	70	Ü	280	
	type-En	-		300	Ŏ	60 -	0	240	
	type-EIII	m		63	Ŏ	13	Õ	50	
	type-EIV	m		03	-		206,976		827,90
Sub-total					1,034,880		200,770		
Anicut (Grade	C)				Δ.	001 661	0	1,126,203	
-1 Body		nos		1,407,754		281,551	-		
!-1 Gate		nos		280,000	0	56,000	0	224,000	
2-3 Revetment		nos		208,841	0	41,768	0	167,073	
-4 Spill		nos	- 1 · 1	705,212	• 0	141,042	0	564,170	
Sub-total	ì			-	0		0		
	1. 50%	nos		703,877	0	140,775	0	563,102	
3-1 Body				140,000	ő	28,000	ŏ	112,000	
3-2 Gate		nos	V	104,420	ŏ	20,884	ŏ	83,536	
I-3 Revetment		nos			ő	70,521	ŏ	282,085	
3-4 Spill		nos		352,606		10,321	0.	202,003	
Sub-tota					0		ν		
. Canal Structur	es (Grade	C)		i e e				044 024	
- I Intake	type-li	nos		333,543	0		: 0	266,834	
·	type-lli	nos		127,233	0	25,447	. 0	101,787	
-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909	1
-2 Tornout	type-lit	nos	8	24,036	192,289	4,807	38,458	. 19,229	153,8
2 Danislatan	type-ne		· ·	62,564	0	12,513	. 0	50,052	
-3 Regulator	type-lr	nos	2	46,630	93,261	9,326	18,652	37,304	74.6
	type-llr	nos	L		0		0	64,585	
-4 Drop	type-Id	nos		80,731		6,634	13,268	26,536	53,0
. ,	type ild	nos	2	33,170	66,341		15,200	52,159	1
5 Under Crossing	type-lu	nos		65,198	0			48,485	96,9
	type-llu	nos	2	60,606	121,211	12,121	24,242		70.7
-6 Spillway	type-Iw	nos		80,613	0		0	64,491	4.1
	type llw	nos	2	40,307	80,613		16,123	32,245	64,4
7 Over Bridge	type-lo	nos		206,648	. 0	41,330	. 0	165,318	
o ter bilogo	type-llo	nos		106,982	213,964	21,396	42,793	85,586	· 171,1
-8 Parshall Flume		nos		18,312	0	3,662	; 0	14,649	1 1 '
-0 Latellan Livino	type-llp	nos		12,283	24,566	2,457	4,913	9,826	19,6
				2,906,525	- 7 0	*** * * *	0	2,325,220	1.3
19 Aqueduct	type-la	nos		25,167	ŏ		0	20,134	100
	type-lla	nos		23,107		•	158,449	,	633,
Sub-tota	1				792,245	 -	130,442		
. Canal Structu	res (Grade	B)	: 100%	000.540		66 700	0	266,834	
i-1 Intake	type-li	nos	ı	333,543	Q				
	týpe-Ili	nos		127,233	Q		0	101,787	
i-2 Turnout	type-It	nos		36,136	0		0	28,909	. 201
	type-Ilt	nos			480,722		96,144	19,229	384,
i-3 Regulator	type ir	nos		62,564	0		. 0	50,052	4 2 2
Regulator		nos			466,304		93,261	37,304	373,
A Dage	type-llr			80,731	(00,00		0	64,585	
i-4 Drop	type-Id	1009	-		165,852		33,170	26,536	132,
	type-IId	nos			103,032		0	52,159	4.4
-5 Under Crossin		no:		65,198			60,606	48,485	242,
1	type-llu	no:	5 5		303,028				272,
6-6 Spillway	type-lw	nos		80,613	: (•	0	64,491	141
	type-liw	nos	5		201,533	8,061	40,307	32,245	161,
5-7 Over Bridge	type-lo	nos		206,648	((0		
, , Otti Dilugo	type-llo	nos	_		534,911		106,982	85,586	427,
o n				18,312	(0	14,649	
5-8 Parshall Flume		no		12,283	ć		0		
	type-lip	no:					ŏ		
5-9 Aqueduct	type-Ia	100		2,906,525			10,067		40,
	type-Ila	no:	5 2	25,167	50,334		10,007	201127	1,762,
Sub-tot					2,202,685	<u> </u>	440,537		1,102,

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (5/18)

Kirama

	- ,	Spill Sub-total		nos		705,212	0	141,042	0	564,170	0
		Anicut (Grade		.,							
		Body		nos	l ·	703,877	703,877		140,775	563,102	563,102
		Gate Revetment		nos nos	1 1	140,000	140,000 104,420	28,000 20,884	28,000 20,884	112,000 83,536	112,000 83,536
		Spill		nos		352,606	0	70,521	. 0	282,085	0
ž	4.	Sub-total Canal Structur		C3			948,297		189,659		758,638
		Intake	type-li	nos		333,543	0	7	0	266,834	0
	: 1-2	Turnout	type-lli type-lt	nos	1	127,233 36,136	127,233	25,447 7,227	25,447 0	101,787 28,909	101,787 0
			type-lit	nos	4	24,036	96,144	4,807	19,229	19,229	76,915
. 4	4-3	Regulator	type-Ir type-IIr	nos nos	2	62,564 46,630	93,261	12,513 9,326	0 18,652	50,052 37,304	74,609
	4-4	Drop	type-Id	nos		80,731	0	16,146	- O	64,585	(14,00)
٠.	, 4 S	Under Crossing		nos	2	33,170 65,198	66,341 0	6,634 13,040	13,268	26,536 52,159	53,073 0
			type-llu	nos:	2	60,606	121,211	12,121	24,242	48,485	96,969
. •	4-6	Spillway	type-iw	nos nos	2	80,613 40,307	0 80,613	16,123 8,061	16,123	64,491 32,245	64,491
7 ,	4-7	Over Bridge	type-llw type-lo	nos	4	206,648	0,013		10,123	165,318	C
: 1		Parshall Flume	type-lio	nos	2	106,982	213,964	21,396	42,793	85,586	171,172
,	4-0	Patsnan Flunc	type-lp type-llp	nos	1	18,312 12,283	0 12,283	3,662 2,457	2,457	14,649 9,826	9,826
	4-9	Aqueduct	type-la	nos		2,906,525	0		0	2,325,220	0
		Sub-total	type-Ila I	nos		25,167	0 811,052	5,033	0 162,210	20,134	648,841
	5.	Canal Structur	es (Grade								
,	5-1	Intake	type-li type-lli	nos nos		333,543 127,233	0		0	266,834 101,787	0
	5-2	Turnout	type-It	nos		36,136	ŏ	7,227	0	28,909	0
	5.3	Regulator	type-lit type-ir	nos nos	7	24,036 62,564	168,253 0		33,651	19,229 50,052	134,602
			type-llr	nos	4	46,630	186,522		37,304	37,304	149,217
: ;	5-4	Drop	type-ld	nos		80,731	0	16,146	0	64,585	(
. :	5-5	Under Crossing	type-IId type-Iu	nos nos	2	33,170 65,198	66,341 0	6,634 13,040	13,268	26,536 52,159	53,073
		- .	type-llu	nos	2	60,606	121,211	12,121	24,242	48,485	96,969
. ;	5-6	Spillway	type-lw type-liw	nos nos	2	80,613 40,307	0 80,613		0 16,123	64,491 32,245	64,491
;	5-7	Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	0
		-	type-llo	nos	2	106,982	213,964	21,396	42,793	85,586	171,172
	ა-გ	Parshall Flume	type-lip	nos nos		18,312 12,283	0		0	14,649 9,826	• •
: ;	5-9	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	0
	•	Sub-total	type-lia	nos	1	25,167	25,167 862,071	5,033	5,033 172,414	20,134	20,134 689,657
-		Septola									
-	·	Total					3,915,020		783,004		3,132,016

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (6/18)

Total		-			8,404,972		2,903,713		5,501,259
Sub-tota		<u>:</u>		·	1,452,306		290,461		1,161,845
	type-lia	nos	1	25,167	25,167	5,033	5,033	20,134	20,134
5-9 Aqueduct	type-lip type-la	nos nos		12,283 2,906,525	0	2,457 581,305	0	9,826 2,325,220	0
5-8 Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649	0
	type-lio	nos	3	106,982	320,947	21,396	64,189	85,586	256,757
5-7 Over Bridge	type-llw type-lo	nos	3	40,307 206,648	120,920	41,330	24,104	165,318	0,750
5-6 Spillway	type-Iw	nos	3	80,613 40,307	0 120,920	16,123 8,061	24,184	64,491 32,245	96,736
· · ·	type-llu	nos	3	60,606	181,817	12,121	36,363	48,485	145,454
5-5 Under Crossing	type-lu	nos		65,198	0	13,040	0	52,159	0
24 Diop	type-lid	nos	. 3	33,170	99,511	6,634	19,902	26,536	79,609
5-4 Drop	type-ld	nos	. 3	80,731	233,132	16,146	-0,050 0	64,585	0
5-3 Regulator	type-Ir type-IIr	nos nos	. 5	62,564 46,630	233,152	12,513 9,326	46,630	50,052 37,304	186,522
60 D	type-llt	nos	9	24,036	216,325	4,807	43,265	19,229	173,060
5-2 Turnout	type-It	nos	_	36,136	0	7,227	0	28,909	0
* :	type-Ili	nos	2	127,233	254,467	25,447	50,893	101,787	203,574
5-1 Intake	type-li	nos.	. 200 /0	333,543	0	66,709	0	266,834	. 0
Sub-tota 5. Canal Structur		RY -	100%		070,101		137,420		220,001
Cuh tatal	type-lla	nos		25,167	0 696,101	5,033	139,220	20,134	556,881
4-9 Aqueduct	type-la	nos	1	2,906,525		581,305	0	2,325,220 20,134	0
40.4	type-llp	nos	2		24,566	2,457	4,913	9,826	19,653
4-8 Parshall Flume		nos	_	18,312	0	3,662	4013	14,649	10.462
54 D. J. C.	type-llo	nos	2	106,982	213,964		42,793	85,586	171,172
4-7 Over Bridge	type-lo	nos	:	206,648	0	41,330	0	165,318	0
ч-о оршмау	type-lw type-llw	nos	2	40,307	80,613	8.061	16,123	32,245	64,491
4-6 Spillway	type-llu type-lw	nos	Z	80,613	121,211		24,242	64,491	90,909
4-5 Under Crossing		nos	2	65,198 60,606	0 121,211		24,242	52,159 48,485	96,969
15 15-11-0	type ild	nos	2		66,341	6,634	13,268	26,536	53,073
4-4 Drop	type-id	nos	_	80,731	0	16,146	12.769	64,585	52.032
	type-ilr	nos	2		93,261		18,652	37,304	74,609
4-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052	0
	type-IIt	nos	4	24,036	96,144	4,807	19,229	19,229	76,915
4-2 Turnout	type-lt	nos		36,136	0	7,227	0	28,909	0
· · · · · · · · · · · · · · · · · · ·	type-lli	nos		127,233	ŏ	25,447	ő	101,787	Ŏ
	type-li	nos		333,543	. 0	66,709	0	266,834	0
4. Canal Structur		C)—	· · · · · · · · · · · · · · · · · · ·		103,017		140,775	11.0	303,102
Sub-total	1	1102		332,000	703,877	10,321	140,775	202,003	563,102
3-3 Revetment 3-4 Spill		nos nos		352,606	0		0	282,085	. 0
3-2 Gate		nos		140,000 104,420	0	28,000 20,884	0	112,000 83,536	. 0
3-1 Body		nos	- 1	703,877	703,877		140,775	563,102	563,102
3. Anicul (Grade	J: 50%			702 077	ማለን ዕማማ	1.40.275	140.775	562 102	\$62.102
Sub-total					1,608,841	=	321,768	, ,	1,287,073
2-4 Spill		nos		705,212		141,042	0	564,170	0
2-3 Revetment		nos	1	208,841	208,841	41,768	41,768	167,073	167,073
2-1 Gate		nos	5	280,000	1,400,000		280,000	224,000	1,120,000
2-1 Body	~)	nos		1,407,754	0	281,551	0	1,126,203	0
Sub-total 2. Anicut (Grade					3,022,019		724,410		2,657,005
Cub soial	type-EIV	m		63	0 3,622,079	13	0 724,416	50	0 2,897,663
	type Elll	m		300	0	60	0	240	0
	type-Ell	m		349	0	70	0	280	0
	type-El	m	•	430	Q	86	0	344	0
	type-BVII		2,800	1,294	3,622,079	259	724,416	1,035	2,897,663
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BIV			2,413	0	483	0	1,931	O
	type BIII	กา		2,754	. 0	551	0	2,203	0
	type-BII	m		2,984	ŏ	597		2,388	ŏ
1. Canal Works	type-BI	ខា		3,607	0	721	0	2,885	o
Construction Works	DIKS			Unit price	Amount	Unit price	Amount	Unit price	Amount
O	1	Unit	Quantity	Total Co			rrency (Rs)	Local Curr	
			· · · ·				(5)		

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (7/18)

Kirama

	Construction Works		Onn	Quantity	Total Co	est (Rs)		rrency (Rs)		rency (Rs)	
	Construction Wo	orks			Unit price	Amount	Unit price	Amount	Unit price	Amoun	
•	Canal Works				2.402		721		0.006		
		type-B1	m		3,607	0	721	0	2,885	(
		type-Bli	m		2,984	0	597	- 0	2,388	(
		type-Bill	m		2,754	0	551 483	. 0	2,203	(
		type-BIV	m		2,413 2,010	. 0	402	- 0	1,931 1,608	(
		type-BV	กา		1,561	0	312	0	1,008	(
		type-BVI type-BVII	m	3,000	1,301	3,880,799	259	776,160		3,104,639	
		type-El	m	3,000	430	0,000,725	86	0.		- 5,104,052	
		type-Ell	m		349	ŭ	70	· ŏ	280	(
		type-Elli	m		300	ŏ	60	ŏ	240	. (
		type-EIV	m		63	ŏ	13	ŏ	50		
	Sub-total		•••			3,880,799	•	776,160		3,104,639	
	Anicut (Grade										
	Body		nos		1,407,754	0	281,551	. 0	1,126,203	(
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	
	Anicul (Grade	1:50%									
	Body		nos	1	703,877	703,877	140,775	140,775	563,102	563,102	
	Gate		nos		140,000	0	28,000	0	112,000	(
	Revelment		nos		104,420	0	20,884	0	83,536	(
3-4	Spill		nos		352,606	202.922	70,521	140.225	282,085		
	Sub-total					703,877		140,775		563,102	
•	Canal Structur		* T		333,543	0	46 700	Λ	266 024		
-1	Intake	type-li type-lli	nos	· · 2	127,233	0 254,467	66,709 25,447	50,893	266,834 101,787	203,57	
.2	Turnout	type-lt	nos	Z	36,136	234,407	7,227	30,693	28,909	203,37	
r- z	Tomout	type-ilt	nos	4	24,036	96,144	4,807	19,229	19,229	76,91	
1.3	Regulator	type-ir	nos	٠,	62,564	0	12,513	0	50,052	70,71	
	regolator.	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,60	
4	Drop	type-ld	nos	_	80,731	0	16,146	0	64,585	.,,,,,	
,		type-lld	nos	. 2	33,170	66,341	6,634	13,268	26,536	53,07.	
-5	Under Crossing		nos		65,198	0	13,040	0	52,159	· (
		type-Hu	nos	2	60,606	121,211	12,121	24,242	48,485	96,96	
ŀ6	Spillway	type-lw	nos	1 1	80,613	0	16,123	0	64,491	A	
		type-llw	nos	2	40,307	80,613	8,061	16,123	32,245	64,49	
-7	Over Bridge	type-lo	nos	1 1	206,648	0		U	165,318	(
		type-llo	nos	2	106,982	213,964	21,396	42,793	85,586	171,173	
-8	Parshall Flume	type-lp	nos		18,312	0	3,662	0	14,649		
'n		type-llp	nos	2	12,283	24,566	2,457	4,913	9,826	19,65	
-7	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220		
	Sub-total	type-lla	nos		25,167	050.569	5,033	100.134	20,134	740.45	
	Canal Structur		B.—	: 100%	-	950,568		190,114		760,454	
	Intake	es (Grade : type-li	nos Son	. 10070	333,543	. 0	66,709	0	266,834	(
•	acreano.	type-lli	nos		127,233	: 0	25,447	0	101,787		
-2	Turnout	type-lt	nos	:	36,136	. 0	7,227	0	28,909		
-	Tuttious	type-lit	nos	10	24,036	240,361	4,807	48,072	19,229	192,28	
-3	Regulator	type-lr	nos		62,564	240,501	12,513	0,072	50,052		
		type-llr	nos	6	46,630	279,783	9,326	55,957	37,304	223,82	
-4	Drop	type-Id	nos		80,731	2.7,.03	16,146	0	64,585	223,02	
	•	type-lld	nos	4	33,170	132,682	6,634	26,536	26,536	106,14	
-5	Under Crossing	type-lu	nos	v	65,198	0	13,040	0	52,159		
		type-llu	nos	. 4	60,606	242,423	12,121	48,485	48,485	193,93	
-6	Spillway	type-lw	nos	: .	80,613	0	16,123	. 0	64,491	٠ ا	
	•	type-IIw	nos	: 4	40,307	161,226	8,061	32,245	32,245	128,98	
-7	Over Bridge	type-lo	ถอร		206,648	0	41,330	. 0	165,318		
	- ·	type-llo	nos	4	106,982	427,929	21,396	85,586	85,586	342,34	
8-8	Parshall Flume		nos	•	18,312	0	3,662	. 0	14,649		
		type-llp	nos		12,283	. 0	2,457	: · · •	9,826	. (
-9	Aqueduct	type-la	nos		2,906,525	0	581,305	0	2,325,220	1.0	
		type-Ila	nos	1 -	25,167	25,167	5,033	5,033	20,134	20,13	
						፤ ፍለብ ፈሻለ		201014		1 202 66	
	Sub-total	<u> </u>				1,509,570		301,914		1,207,656	

	sala Anicut		Unit	Quantity	Total Co	• •		ency (Rs)	Local Curre	
Con	struction Wo	orks		•	Unit price	Amount	Unit price	Amount	Unit price	Åmount
	al Works									
		type-BI	m		3,607	0	721	0	2,885	0
		type-BII	m		2,984	0	597	0	2,388	0
		type-BHI	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	Q
		type-BVI	m		1,561	0	312	0	1,249	U
		type-BVII		1.800	1,294	2,328,479	259	465,696	1,035	1,862,783
		type-El	m	-,	430	0	86 -	0	344	C
		type-Ell	m		349	0	70	0	280	0
		type-Elli	m		300	. 0	60	0	240	. (
		type-EIV			63	0	13	0	50	(
	Sub-total		•••			2,328,479		465,696		1,862,783
XW	cul (Grade									
			nos		1,407,754	. 0	281,551	0	1,126,203	(
-I Bod			nos		280,000		56,000	0	224,000	. (
-1 Gat			nos	1	208,841	208,841	41,768	41,768	167,073	167,073
	etment				705,212		141,042	0	564,170	(
-4 Spil			nos		103,212	208,841	,	41,768		167,07
· · · · · ·	Sub-total					240,0 11				
	cut (Grade	1: 2070	nos	. 1	703,877	703 877	140,775	140,775	563,102	563,10
-1 Bod			nos		140,000	280,000	28,000	56,000	112,000	224,00
-2 Gat			nos	Z	104,420	200,000	20,884	. 0,000	83,536	201,00
	retment		nos	,		ŏ	70.521	ŏ	282,085	:
-4 Spi			nos		352,606	983,877	10,021	196,775	202,000	787,10
`	Sub-total					703,011		170,715		
	nal Structur				. 222 542	0	66,709	0	266,834	
-1 Inta	ike	type-li	nos	2	333,543	254,467		50,893	101,787	203,57
<u> </u>	•	type-lli	nos	2	127,233	234,407	7,227	0,075	28,909	Lossion
2 Tur		type-It	nos		36,136			14,422	19,229	57,68
		type-lit	nos		24,036	72,108	4,807	0	50,052	37,00
-3 Reį	gulator	type-ir	nos		62,564	44.420	12,513	9,326	37,304	37,30
	4	type-lir	nos		46,630	46,630	9,326	9,320	64,585	37,30
4 Dro	op :	type-Id	nos		80,731	0 22 170	16,146	6.634	26,536	26,53
		type-IId	nos		33,170	33,170	6,634	0,034	52,159	20,55
-5 Un	der Crossing		nos		65,198	50.505		12,121	48,485	48,48
		type-IIu	nos	1	60,606	60,606	12,121	12,121	64,491	40,40
-6 Spi	liway 🗀	type-iw	nos		80,613	40.207		8,061	32,245	32,24
		type-llw	nos		40,307	40,307		0,001	165,318	JL,L
-7 Ov	er Bridge	type-lo	nos	-	206,648	0	41,330	21,396	85,586	85,58
		type-llo	nos		106,982	106,982	21,396		14,649	05,50
-8 Par	shall Flume		nos		18,312	0		4012	9,826	19,65
		type-llp	nos			24,566		4,913		
-9 Aq	ueduct	type-la	nos		2,906,525	0		0	2,325,220	
•		type-lla	nos		25,167	0		102.763	20,134	511,00
	Sub-tota					638,837		127,767		311,00
, Ca	nal Structu	res (Grade	B)	: 100%			** ***		066.024	
-1 Int		type-li	nos		333,543	0	66,709	0	266,834	
		type-lli	nos	•	127,233	0		. 0	101,787	
2 Tu	mout	type-It	nos		36,136	. 0		0	28,909	04.5
		type-Ilt	nos	5	24,036	120,180		24,036	19,229	96,14
3 Re	gulator	type-Ir	nos		62,564	0		0	50,052	
	8*****	type-llr	nos		46,630	139,891	9,326	27,978	37,304	111,9
-4 Dr	op	type-Id	nos		80,731	0	16,146	0	64,585	
		type IId	nos			66,341	6,634	13,268	26,536	53,0
S Ha	der Crossing	type-Iu	nos		65,198	: 0	13,040	0	52,159	2.1
, , 01	ider Crossing	type-llu	nos	_		121,211	12,121	24,242	48,485	96,9
6 Sp	illway	type-Iw	nos		80,613	0	16,123	0	64,491	1 . 1
, o op	y	type-llw	nos			80,613		16,123	32,245	64,4
1 0	er Bridge	type-lo	nos		206,648	0		0	165,318	:
j=7 U \	ei minge		nos			213,964		42,793	85,586	171,1
e o n	scholl Dieses	type-llo			18,312	0		0	14,649	•
9-8 Pa	rshall Flume	type-ip	nos		12,283	ď		. Õ	9,826	
		type-lip	nos		2,906,525	Ŏ		ŏ	2,325,220	
)-У А	queduct	type-la	nos		25,167	Ö		ŏ		
		type-lla	nos		23,107	742,202		148,440		593,70
	Sub-tota	u				142,202		2 10,110		2,2,,

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (9/18)

	Pattiyawela An		Unit	Quantity	Total C	Cost (Rs)	Forein Cu	rrency (Rs)	Local Cur	rency (Rs)
	Construction We	orks	=		Unit price		Unit price	Amount	Unit price	Amount
7.	Canal Works									
		type-B1	m		3,607	0	721	0	2,885	O O
		type-BII	'n		2,984	0	597	0	2,388	O
		type BIII	m		2,754	0	551	0	2,203	Ū
		type-BIV	m		2,413	0	483	Ó	1,931	Ō
		type BV	m		2,010	Ò	402	ō	1,608	Õ
		type-BVI	m		1,561	. 0	312	ŏ	1,249	Ŏ
		type-BVII		4,100	1,294	5,303,758	259	1.060.752	1,035	4.243.007
			4.5	4,100	430		86			
		type-El	m			0		0	344	0
		type-Ell	m		349	0	70	0	280	0
		type-EIII	· DI	•	300	0	60	0	240	0
	0.1.4.4.1	type-EIV	m		63	0	13	0	50	1212.00
<u>,</u>	Sub-total					5,303,758		1,060,752		4,243,007
	Anicul (Grade	C)								
	Body		nos		1,407,754		281,551		1,126,203	Ð
	Gate		nos	5	280,000	1,400,000	56,000	280,000	224,000	- 1,120,000
2-3	Revelment		nos		208,841	0	41,768	0	167,073	C)
2-4	Spill		nos		705,212	0	141,042	0	564,170	
	Sub-total				ŗ	1,400,000	•	280,000	•	1,120,000
3.	Anicut (Grade	1:50%					-		. ,	.,,
3-1	Body		nos	. 1	703,877	703.877	140,775	140,775	563,102	563,102
	Gate		nos	•	140,000	0	28,000	0	112,000	005,102
	Revetment		nos	1 1 T	104,420	104,420	20,884	20,884	83,536	83,536
	Spill		nos		352,606	0	70,521		282,085	
J. 4	Sub-total		1102		332,000		10,321	0 161,659	202,083	: ·: ()
, I			Z 15			808,297		101,039		646,638
	Canal Structur				222 642	Δ	44.200		044.004	
4-1	Intake	type-li	nos		333,543	0	66,709	0.5.445	266,834	0
	(m)	type lli	nos	, 1	127,233	127,233	25,447	25,447	101,787	101,787
4-Z	Turnout	type-It	nos		36,136	0	7,227	0	28,909	0
:	<u> </u>	type-lit	nos	5	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	Ū
12.2		type-llr	nos	3	46,630	139,891	9,326	27,978	37,304	111,913
4-4	Drop	type-lo	nos		80,731	0	16,146	. 0	64,585	0
	1.	type iid	nos	. 2	33,170	66,341	6,634	13,268	26,536	53,073
4-5	Under Crossing		nos	100	65,198	0	13,040	0	52,159	0
		type-liu	nos	2	60,606	121,211	12,121	24,242	48,485	96,969
4-6	Spillway	type-Iw	nos	19.00	80,613	0	16,123	0	64,491	
		type-llw	nos	2	40,307	80,613		16,123	32,245	64.491
4-7	Over Bridge	type-lo	nos		206,648	0.0.0	41,330	0	165,318	0,17,1
•		type-llo	nos	2	106,982	213,964	21,396	42,793	85,586	171,172
4.8	Parshall Flume		nos		18,312	213,304	3,662	42,793	14,649	171,172
	· aronant runto	type-lip	nos	2	12,283	24,566	2,457	4.913		19,653
4.0	Aqueduct	type-np	5	. 4				•	9,826	•
1.2	riqueauci		nos		2,906,525	. 0	581,305	0	2,325,220	0
	المعمد المرازي	type-lla	nos		25,167	004001	5,033	170 000	20,134	215 201
c	Sub-total		D	. 1000		894,001		178,800		715,201
5.	Canal Structur			: 100%	222 542	^			044.00:	_
J-1	Intake	type-li	nos		333,543		66,709	0	266,834	0
		type-lli	nos	· i	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-lit	nos	12	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-Ilr	nos	6	46,630	279.783	9,326	55,957	37,304	223,826
5-4	Drop	type-ld	nos		80,731	0	16,146	: 0	64,585	223,020
•		type-lid	nos	3	33,170	99,511	6,634	19,902	26,536	79,609
5.5	Under Crossing	type-In	nos	,	65,198	0	13,040	13,302	52,159	·
,	Chart Crossing	type-llu		. 3	60,606	181,817	12,121	36,363	32,137	145.454
5 4	Spillway	7.	nos			_			48,485	145,454
J+0	ориниау	type-Iw	nos	^	80,613	0	16,123	0	64,491	0 00
	O D	type-liw	nos	3	40,307	120,920	8,061	24,184	32,245	96,736
3-1	Over Bridge	type-lo	nos	_	206,648	0	41,330	0	165,318	0
		type-llo	nos	3	106,982	320,947	21,396	64,189	85,586	256,757
5-8	Parshall Flume		nos		18,312	0	3,662	0	14,649	. 0
		type-llp	nos		12,283	• 0	2,457	0	9,826	Ó
5-9	Aquedúct	type-la	nos		2,906,525	0	581,305	Õ	2,325,220	ď
		type lla	nos	2	25,167	50,334	5,033	10,067	20,134	40,267
	Sub-total	76		4	20,107	1,468,978	0,000	293,796	20,107	1,175,183
	- 500 (0(4)					1,100,770		273,770		1,17,103
	Total	1			4. 1 1	10,155,035		3,095,007		7,060,028
	a USGI					70,123,033		J,UZJ,UU/		7.500.028

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme - Kirama Oya Scheme - (10/18)

K-10	Unnasege Anio	ot				-	F	(D-)	Local Cum	annu (Pa)
	Construction We	arke.	Unit	Quantity	Total C Unit price	Cost (Rs)	Unit price	rrency (Rs) Amount	Unit price	Amount
	Canal Works	JIKS			Otat price	Allegia	Ontyrice	- Intoone	Olik pice	
4.	Canal HVIKS	type-BI	m		3,607	0	<i>7</i> 21	. 0	2,885	0
		type-Bit	m		2,984	Ō	597	O	2,388	0
		type-BIII	n		2,754	0	551	. 0	2,203	0
		type-BIV	nı -		2,413	0	483	0	1,931	0
		type-BV	m	:	2,010	0	402	0	1,608	0
		type-BVI	m	1	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-El	m		430	0	86	. 0	344	O.
		type-EII	m		349	0	70	• 0	280	0
		type-EIII	m:		300	0	60	. 0	240	0
		type-EIV	m.		63	0	13		50	0
	Sub-total					2,457,839		491,568		1,966,271
2.	Anicut (Grade	C)						45		
2-1	Body		nos		1,407,754		281,551		1,126,203	0 000
2-1	Gate	•	nos	4	280,000	1,120,000		224,000	224,000	896,000
2-3	Revetment		nos		208,841	0		0	167,073	0
2-4	Spill		nos		705,212		141,042	0	564,170	004.000
	Sub-total					1,120,000		224,000		896,000
	Anicut (Grade	1:50%			สกร ครร	702 077	130 775	1/0 775	563,102	563,102
	Body		nos	1	703,877	· _	140,775 28,000	140,775 0	112,000	303,102
	Gate	:	nos		140,000	0		0	83,536	. 0
	Revetment		nos		104,420	_		0	282,085	·
3-4	Spill		nos		352,606	703,877	10,321	140,775	202,003	563,102
	Sub-total		***		.	703,077		140,773		303,102
	Canal Structur				333,543	n	66,709	0	266,834	. 0
4-1	Intake	type-li	nos nos	1	127,233	127,233		25,447	101,787	101,787
4.0	Transport	type-lli			36,136	0		23,117	28,909	0
4-2	Tumout	type-It	nos	3	24,036	72,108		14,422	19,229	
12	Deculator	type-lit type-ir	nos	J	62,564	72,100		0	50,052	0
4-3	Regulator	type-llr	nos	2	46,630	93,261	9,326	18,652	37,304	74,609
' A A	Drop	type-III	nos	2.	80,731	0		0	64,585	0
4-4	Diop	type-lld	nos	. 1	33,170	33,170		6,634	26,536	26,536
1.5	Under Crossing	type-liu	nos	•	65,198	0		0	52,159	0
4-9	Onder Crossing	type-IIu	nos	1	60,606	60,606		12,121	48,485	48,485
4.6	Spillway	type-Iw	nos	_	80,613	0		0	64,491	0
70	Opiniaj	type-llw	nos	1	40,307	40,307		8,061	32,245	32,245
4-7	Over Bridge	type-lo	nos		206,648	0		0	165,318	0
	Over Bridge	type-llo	nos		106,982	106,982	21,396	21,396	85,586	85,586
4-8	Parshall Flume		nos		18,312	0	3,662	0	14,649	0
		type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,826
4-9	Aqueduct	type-la	nos		2,906,525	0		. 0	2,325,220	0
		type-lla	nos		25,167	. 0	5,033	0	20,134	0
	Sub-tota]				545,951		109,190		436,760
5.	Canal Structur	res (Grade	B)	: 100%					044.004	
	Intake	type-li	nos		333,543	0		0	266,834	0
		type-lli	nos		127,233	0		0	101,787	0
5-2	Turnout	type-It	nos		36,136	0		20 0 42	28,909	115 373
100		type-llt	nos			144,217		28,843	19,229	115,373
5-3	Regulator	type-Ir	nos	•	62,564	120.901		17.070	50,052	111,913
٠.	2	type-Ilr	nos		46,630	139,891		27,978	37,304 64,585	111,913
5-4	Drop	type-Id	nos		80,731	66 241		0 13,268	26,536	53,073
		type-IId	nos			66,341				33,073
5-5	Under Crossing		nos	•	65,198	121.211		0 24,242	48,485	96,969
		type-llu	nos		60,606	121,211		24,242	64,491	90,909
5-6	Spillway	type-Iw	nos		80,613	90 613		16,123	32,245	64,491
		type-llw	nos			80,613		10,123		04.451
5-7	Over Bridge	type-lo	nos	_	206,648	213.064		42,793	85,586	171,172
		type-IIo	nos			213,964		42,193	14,649	0
5-8	Parshall Flume	type-Ip	nos		18,312 12,283	: 6		. 0	9,826	ŏ
. ~		type-llp	nos		2,906,525	C		0	2,325,220	ŏ
5-9	Aqueduct	type la	nos	_		25,167		5,033	20,134	20,134
1 4 1	0.1.4	type-ila	nos		25,167	791,405		158,281	10,154	633,124
	Sub-tota	1				771,700				
	Total				1.11	5,843,072		2,019,814		3,823,257
	Total							-,,		

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (11/18)

Kirama

K-11 Kahawatta Anicut Total Cost (Rs) Forein Currency (Rs) Local Currency (Rs) Unit Quantity Construction Works Unit price Amount Unit price Amount Unit price Canal Works 3.607 721 2,885 type-Bl type-BII 2,984 597 2,388 0 m type-BIII 2,754 0 551 0 2,203 0 m type-BIV Ü 483 0 1,931 0 m 2,413 type-BV 2,010 0 402 1,608 Û m type-BVI 0 1,561 312 1,249 m 0 1,035 type-BVII 1,294 0 259 0 m type-El 430 0 86 0 344 0 type-Ell 0 70 0 280 0 349 m 0 0 type-EIII 300 240 0 60 n) () n type-EIV 63 50 Sub-total Anicut (Grade C) 2-1 Body 1,407,754 1,126,203 nos 0 281,551 () 1,120,000 280,000 2-1 Gate 280,000 1,400,000 56,000 224,000 nos 2-3 Revetment 208.841 208,841 41,768 41,768 167,073 167,073 DOS 141,042 2-4 Spill 705,212 n 564,170 กอร Sub-total 1,608,841 321,768 1,287,073 Anicul (Grade): 50% 3-1 Body 703.877 703,877 140,775 140,775 563,102 563,102 nos 112,000 140,000 28,000 0 3-2 Gate nos 0 83,536 3-3 Revetment nos 104,420 0 20,884 0 0 0 282,085 3-4 Spill 352,606 70,521 nos 703,877 140,775 Sub-total 563,102 Canal Structures (Grade C) 4-1 Intake type-li 333,543 66,709 266,834 nos 25,447 7,227 type Ili 101,787 127,233 127,233 25,447 101,787 nos 28,909 4-2 Turnout 36,136 0 type-It nos type-ilt nos 24,036 72,108 4,807 14,422 19,229 57,687 4-3 Regulator type-ir 62,564 12,513 50,052 nos type-IIr 2 46.630 93,261 9,326 18,652 74,609 nos 37.304 4-4 Drop 80,731 type-Id nos 16,146 64,585 type-Ild 33,170 33,170 6,634 6,634 26,536 26,536 nos 4-5 Under Crossing type-lu 65,198 13,040 52,159 nos type llu 60.606 60,606 12,121 48,485 12.121 48.485 nas 4-6 Spillway type-Iw nos 80,613 O 16,123 64,491 40,307 8,061 type-llw 40,307 8,061 32,245 32,245 nos 4-7 Over Bridge 206,648 41,330 165,318 type-lo nos type-llo 106,982 106,982 21,396 21,396 85,586 85,586 nos 4-8 Parshall Flume 18,312 type-Ip nos n 3.662 0 14.649 O type-llp 12,283 12,283 2,457 2,457 9,826 9,826 4-9 Aqueduct 2,906,525 581,305 2,325,220 type-la nos 0 O type-lla 25,167 5,033 กกร 20,134 Sub-total 545,951 109,190 436,760 Canal Structures (Grade B) : 100% 266,834 101,787 28,909 5-1 Intake type li nos 333,543 66,709 type-lli 127,233 Ö 25,447 nos Ð 5-2 Turnout type-It nos 36,136 U 7.227 n type-Ilt 6 24,036 144,217 4,807 28,843 19,229 115,373 nos type-Ir 5-3 Regulator nos 62,564 12,513 50,052 type-llr 3 46,630 139,891 27,978 9.326 111,913 37,304 nas type Id 64,585 5-4 Drop nos 80.731 16,146 2 33,170 66,341 6,634 13,268 53,073 type-IId nos 26,536 5-5 Under Crossing type-Iu 65,198 13,040 52.159 nos type Ilu 2 60,606 121,211 12,121 24,242 96,969 nos 48,485 5-6 Spillway type-lw nos 80,613 16,123 64,491 type-llw 40,307 80,613 8,061 16,123 64,491 nos 5-7 Over Bridge type Io 41,330 206.648 165,318 nos 2 213,964 42,793 type-llo nos 106,982 21,396 85,586 171,172 5-8 Parshall Flume type-Ip 18,312 3,662 nos 14,649 type llp 2.457 12,283 0 0 9.826 nos 0 5-9 Aqueduct type Ia 581,305 2,325,220 2,906,525 0 nos 0 Ð type IIa 25,167 5,033 25,167 5,033 20,134 20,134 Sub-total 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)

		Unit	Quantity	Total Co		Forein Curr		Local Curren	
Construction Wo	rks			Unit price	Amount	Unit price	Amount	Unit price	Amou
Canal Works							45	0.405	
	type-Bl	m		3,607	0	721	0	2,885	
	type-BII	m		2,984	0	597	. 0	2,388	
	type-BIII	m		2,754	0	551	0	2,203	
	type-BIV	m		2,413	0	483	Q.	1,931	
	type-BV	m		2,010	0	402	0	1,608	
•	type-BVI	m		1,561	0	312	0	1,249	
	type-BVII	m	800	1,294	1,034,880	259	206,976	1,035	827,90
	type-EI	m		430	0	86	. 0	344	
	type-Ell	m		349	0	70	. 0	280	
	type-EIII	m		300	0	60	0	240	
•	type-EIV	m		63	0	13	. 0	50	
Sub-total	type Liv	•••			1,034,880		206,976		827,90
Anicut (Grade	(^				True deli				
	c)	nos		1,407,754	0	281,551	0	1,126,203	
-1 Body		nos		280,000	Ó	56,000	0	224,000	
-1 Gate		nos	1		208,841	41,768	41,768	167,073	167,0
-3 Revelment			1	705,212		141,042	0	564,170	
-4 Spill		nos		105,212	208,841	11,0 .2	41,768	.,	167,0
Sub-total			<u></u> -		200,041				
Anicut (Grade	1:50%		1	703,877	703,877	140,775	140,775	563,102	563,1
-1 Body		nos)		280,000	28,000	56,000	112,000	224,0
-2 Gate	. '	nos	2	140,000	200,000	20,884	30,000	83,536	201,0
-3 Revetment		nos		104,420	: 0	70,521	ŏ	282,085	
-4 Spill		nos		352,606		10,321	196,775	202,000	787,1
Sub-total				= =	983,877	(130,77		
Canal Structur				022.542	n	66.200	0	266,834	1
1 Intake	type-li	nos	_	333,543	051.467	- •	50,893	101,787	203,5
:	type-ili	nos	2	127,233	254,467	25,447	30,683	28,909	203,3
2 Turnout	type-It	nos		36,136	0	7,227			19,2
	type-llt	nos	1	24,036	24,036	4,807	4,807	19,229	17,2
3 Regulator	type-Ir	nos		62,564	. 0		0	50,052	22.2
	type-llr	nos	1	46,630	46,630		9,326	37,304	37,
4 Drop	type-Id	nos		80,731	. 0	,	0	64,585	
	type-lid	nos	1	33,170	33,170		6,634	26,536	26,
5 Under Crossing		nos		65,198	0	13,040	. 0		1 1 1 1 1 1
D 011001 213111-8	type-llu	nos	1	60,606	60,606	12,121	12,121	48,485	48,
-6 Spillway	type-lw	nos		80,613	5 0	16,123	0	64,491	1 1 22
o opinina)	type-llw	nos	_	40,307	40,307	8,061	8,061	32,245	32,
7 Over Bridge	type-lo	nos		206,648	0	41,330	0	165,318	11.
-7 Over Bridge	type-llo	nos		106,982	106,982	21,396	21,396	85,586	85,
8 Parshall Flume		nos	_	18,312	0		0	: 14,649	
-o raisiian tuuno	type-llp	nos		12,283	24,566		4,913	9,826	. 19,0
O Acuadust	type-la	nos		2,906,525	0		Ó	2,325,220	
-9 Aqueduct	type-lla	nos		25,167	Ō		• • 0	20,134	1.
Cub tata		1103	<u>l</u>	23,10	590,764		118,153		472,
Sub-tota Canal Structur	i con (Crode	-BY	: 100%						
. Canal Structu	tuga li	: D)	. 100 /0	333,543	. 0	66,709	0	266,834	
-1 Intake	type-li	nos		127,233	. 0		0	101,787	
	type-lli	nos			ŏ		Ŏ	28,909	
-2 Tumout	type It	nos	•	36,136 24,036	72,108		14,422	19,229	57,
	type-IIt	nos					0	50,052	~,,
-3 Regulator	type-Ir	nos		62,564	02 261		18,652	37,304	74,
	type-llr	nos			93,261	9,326 16,146	10,032	64,585	2 -73
-4 Drop	type Id	nos		80,731	22.170		6,634	26,536	26,
	type-IId	nos		33,170	33,170				20,
 5 Under Crossing 		nos		65,198	0		12 121	52,159 48,485	48,
	type-Ilu	nos	; 1		60,606		12,121	48,485	40,
6 Spillway	type-Iw	nós	\$	80,613	0		9.641	64,491	30
•	type llw	nos	s · 1	40,307	40,307		8,061	32,245	32,
-7 Over Bridge	type lo	nos	\$	206,648	0		0	165,318	0.0
	type-llo	nos		106,982	106,982	21,396	21,396	85,586	85,
-8 Parshall Flume	type-lp	no:		18,312	. 0	3,662	. 0	14,649	
-0 TOTOMITTIONS	type-lip	nos		12,283	0		0	9,826	
to Amadust	type-la	no		2,906,525	. 0		0	2,325,220	
i-9 Aqueduct				25,167	ď		0	20,134	
Sub-tota	type IIa	no:	,	25,107	406,434		81,287		325,
	u				100,70				
300-101									

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme - Kirama Oya Scheme - (13/18)

	Anicut	Unit	Quantity	Total C	ost (Rs)		rrency (Rs)	Local Curr	rency (Rs)
Construction We	orks		,	Unit price	Amount	Unit price	Amount	Unit price	Amount
. Canal Works									
	type-Bl	uı		3,607	0	721	0	2,885	0
	type-BH	m		2,984	. 0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	U
•	type-BIV	D3	•	2,413	0	483	• 0	1,931	Û
	type-BV	N.	1	2,010	0	402	. 0	1,608	0
	type-BVI	Πì	: 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	U
	type-El	m		430	0	86	0	344	0
	type-Ell	m·		349	0	70	Ó	280	Ü
	type Elli	m		300	. 0	60	Ó	240	0
	type-EIV	m		63	0	13	0	50	(
Sub-total					2,341,101		468,220		1,872,881
. Anicul (Grade									
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		141,042	0	564,170	0
Sub-total				,	1,328,841	,	265,768	,	1,063,073
. Anicut (Grade							2001.00	:	
3-1 Body		nos	1	703,877	703 877	140,775	140,775	563,102	563,102
3-2 Gate		nos		140,000	705,077	28,000	0	112,000	003,102
3-2 Gate 3-3 Revetment		nos		104,420	ŏ	20,884	ŏ	83,536	Ö
3-4 Spill		nos		352,606	Ö	70,521	·· ŏ	282,085	ŏ
Sub-tota	1	1103		332,000	703,877	10,721	140,775	202,003	563,102
. Canal Structur		m	e		, ,,,,,,,,		140,773		505,102
-1 Intake	type-li	nos.		333,543	. Ú	66,709	0	266,834	- 0
-1 IMAKC	type-Ili	4 1 1 1	2	127,233	254,467	25,447	50,893	101,787	203,574
-2 Turnout		nos		36,136	254,407	7,227	0	28,909	203,374
-E TOINOUL	type-It	nos	2	24,036	48,072	4,807	9,614	19,229	38,458
13 Dagulatas	type-lit	nos	Z		*		1.		აგ,4აგ 0
l-3 Regulator	type-fr	nos	1	62,564	0 46.630	12,513	0 326	50,052	
A Dron	type-lir	nos	. 1	46,630	46,630	9,326	9,326	37,304	37,304
I-4 Drop	type-id	nos	1	80,731	22.170	16,146	6624		26.536
S Under Creek	type-ild	nos		33,170	33,170	6,634	6,634	26,536	26,536
I-5 Under Crossing		nos		65,198	0 40 606	13,040	12 121	52,159	40.408
A Caillman	type-llu	nos	. 1	60,606	60,606	12,121	12,121	48,485	48,485
I-6 Spillway	type-Iw	nos	•	80,613	40.207	16,123	0 v 061	64,491	22.245
O Our Date	type-ilw	nos	1	40,307	40,307	8,061	8,061	32,245	32,245
-7 Over Bridge	type-lo	nos	,	206,648	0 (08.093	41,330	21,206		0 5 5 0 4
O Dankania	type-llo	nos		106,982	106,982	21,396	21,396	85,586	85,586
1-8 Parshall Flume	type-lp	nos		18,312	0	3,662	0 453	14,649	0.024
A	type-llp	nos	1	12,283	12,283	2,457	2,457	9,826	9,826
1-9 Aqueduct	type-la	nos	. '	2,906,525	0		. 0	2,325,220	0
	type-lla	nos		25,167	(02.617	5,033	120.503	20,134	402.01
Sub-tota		n.	1000	· · · · · · · · · · · · · · · · · · ·	602,517		120,503		482,014
. Canal Structur			: 100%	222 5 12				044.00	
5-1 Intake	type-li	nos		333,543	0	66,709	0	266,834	0
	type-lli	nos		127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	_	36,136	0		0	28,909	0
	type-lit	nos	5	24,036	120,180	4,807	24,036	19,229	96,144
-3 Regulator	type-Ir	noș		62,564	0		0	50,052	0
. <u>!</u>	type-IIr	ņos	. 3	•	139,891	9,326	27,978	37,304	111,913
5-4 Drop	type-ld	nos		80,731	0	16,146	0	64,585	· · · · · · · · · · · · · · · · · · ·
	type-lld	nos	2	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing		nos		65,198	0	13,040	0	52,159	•
	type-llu	nos	2		121,211	12,121	24,242	48,485	96,969
i-6 Spillway	type-Iw	nos		80,613	0	16,123	ø	64,491	
· · · · · ·	type-llw	nos	2	40,307	80,613	8,061	16,123	32,245	64,491
i-7 Over Bridge	type-to	nos		206,648	0	41,330	0	165,318	
	type-llo	nos	2	106,982	213,964	21,396	42,793	85,586	171,172
8 Parshall Flume		nos		18,312	0	3,662	0	14,649	(
	type-llp	nos		12,283	ŏ	2,457	Ŏ	9,826	Č
5-9 Aqueduct	type-la	nos		2,906,525	ŏ	581,305	ŏ	2,325,220	Ŏ
				25,167	ŏ	5,033	. ŏ	20,134	ŏ
	[VDC-11a	Desc							
	type-ila	nos		20,107				20,151	
Sub-tota		nos		23,107	742,202		148,440		593,761

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme
- Kirama Oya Scheme - (14/18)

14 Nalagam		Unit	Quantity	Total Co			rency (Rs)	Local Curre	
Construction	n Works		(y	Unit price	Amount	Unit price	Amount	Unit price	Amoun
Canal Wo									,
	type-BI	m		3,607	0	721	0	2,885	(
	type-Bil	m		2,984	0	597	. 0	2,388	•
	type-BH			2,754	0	551	0	2,203	
	type-BIV	'n		2,413	0	483	0	1,931	•
	type-BV	nı		2,010	0	402	. 0	1,608	
	type-BV		4,000	1,561	6,242,935	312	1,248,587	1,249	4,994,34
	type-BV	ll m	.,	1,294	. 0	259	0	1,035	.!
	type-El	- 01		430	0	86	0	344	
	type-Ell	D1		349	0	70	0	280	
	type-EII			300	0	60	O	240	
	type-Ei\			63	0	. 13	0	50	
e.s.		11.1		05	6,242,935	*-	1,248,587		4,994,34
	-total						. 2877.000		
Anicut (G	raue C)	506		1,407,754	. 0	281,551	0	1,126,203	
-1 Body		nos	_	280,000	1,400,000	56,000	280,000	224,000	1,120,00
-1 Gate		nos		208,841	208,841	41,768	41,768	167,073	167,07
-3 Revetment		nos	-	705,212		141,042	0	564,170	-,-,
-4 Spill		nos		103,212	1,608,841	1 71,0 72	321,768	,	1,287,07
	-total				1,000,041		521,100		
Anicut (G	rade 1: 50%	,		703,877	702 977	140,775	140,775	563,102	563,10
-1 Body		nos			103,677		140,773	112,000	- 0-110
-2 Gate	:	nos		140,000	0		0	83,536	
-3 Revetment		nos		104,420	0		. 0	282,085	
-4 Spill	1.2	nos		352,606			140,775	202,003	563,10
	-total		2		703,877		140,713		303,1
	uctures (Grad			033.643	0	66,709	0	266,834	
1 Intake	type-li	nos	_	333,543			50.893	101,787	203,51
	type-Ili	nos		127,233	254,467		30,073	28,909	200,0
2 Tumout	type-It	nos		36,136	0			19,229	115,3
	type-IIt	nos	6	24,036	144,217		28,843		113,3
3 Regulator	type-lr	nos		62,564	. 0	•	27.204	37,304	149,2
	type-llr	nos	. 4	46,630	186,522		37,304		1 47,2
4 Drop	type-Id	nos		80,731	0		. 0	64,585	53,0
	type-IId	nos	2	33,170	66,341		13,268	26,536	33,0
-5 Under Cro	ssing type-lu	nos		65,198	0		0	52,159	96.9
	type-llu	nos	2	60,606	121,211	12,121	24,242	48,485	90,9
6 Spillway	type-lw	nos		80,613	0		0	64,491	64,4
• .	type-llv	/ nos	2	40,307	80,613		16,123	32,245	04,4
-7 Over Brid	ge type lo	nos	5	206,648	0		0	165,318	3 321 1
	type-lio	nos	2		213,964		42,793	85,586	171,1
8 Parshall F		nos	3	18,312	0		0	14,649	111.2
	type-llp	nos	2	12,283	24,566		4,913	9,826	19,6
9 Aqueduct	type-la	nos	3	2,906,525	.0		. 0	2,325,220	
	type-lla	nos	\$	25,167	O		0	20,134	022.5
Su	b-total				1,091,901		218,380		873,5
	uctures (Grad	le B)	: 100%		- 7		_	011031	
-1 Intake	type-Iì	no		333,543	. 0		0	266,834	
	type-lli	nos		127,233			. 0		
-2 Turnout	type-It	no		36,136			0		
	type-Ilt				312,469		62,494	19,229	249,9
3 Regulator		no		62,564	0	12,513	0	50,052	
- Itagaiaioi	type-llr			46,630	326,413		65,283	37,304	261,1
4 Drop	type-Id	no	_	80,731	C	16,146	0	64,585	1 2 24 5
, Diop	type-lle			33,170	132,682	6,634	26,536		106,1
S. Hader Cr	ossing type-Iu	no		65,198	C		0		4 4
2 Charlet	type-lit				242,423		48,485	48,485	193,9
6 Spillway	type-Iw		- .	80,613	,		0	64,491	: *
-o opinway	type-liv				161.226		32,245	32,245	128,9
2 Auga Data			~	206,648	(0		
-7 Over Brid				404.000	427,929		85,586		342,3
0.0	type-lle		•	18,312	427,727		05,500		,
8 Parshall I				12,283	Ò		ŏ		
	type-lij					581,305	ŏ		
5-9 Aqueduci				2,906,525	50,334		10,067		40,2
	type-lla	r no	s 2	25,167	1,653,476	, 2,022	330,695		1,322,7
	b-total				1,000,470	·	330,073		
Su									