

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (15/18)

K-115 Daranda Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	1,500	1,294	1,940,399	259	388,080	1,035	1,552,320
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				1,940,399		388,080		1,552,320
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0		0		0
3. Anicut (Grade I): 50%								
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102
3-2 Gate	nos	2	140,000	280,000	28,000	56,000	112,000	224,000
3-3 Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				1,088,297		217,659		870,638
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	127,233	25,447	25,447	101,787	101,787
4-2 Turnout	type-IIt	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	48,072	4,807	9,614	19,229	38,458
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	60,606	12,121	12,121	48,485	48,485
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	12,283	2,457	2,457	9,826	9,826
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				475,284		95,057		380,227
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-IIt	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	120,180	4,807	24,036	19,229	96,144
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	121,211	12,121	24,242	48,485	96,969
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	25,167	5,033	5,033	20,134	20,134
Sub-total				767,369		153,474		613,895
Total				4,271,350		854,270		3,417,080

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (16/18)

K-1 Wile Ancut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
type-BI	m		3,607	0	721	0	2,885	0	
type-BII	m		2,984	0	597	0	2,388	0	
type-BIII	m		2,754	0	551	0	2,203	0	
type-BIV	m		2,413	0	483	0	1,931	0	
type-BV	m		2,010	0	402	0	1,608	0	
type-BVI	m		1,561	0	312	0	1,249	0	
type-BVII	m	1,900	1,294	2,457,839	259	491,568	1,035	1,966,271	
type-EI	m		430	0	86	0	344	0	
type-EII	m		349	0	70	0	280	0	
type-EIII	m		300	0	60	0	240	0	
type-EIV	m		63	0	13	0	50	0	
Sub-total					2,457,839		491,568		1,966,271
2. Ancut (Grade C)									
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0	
2-1 Gate	nos		280,000	0	56,000	0	224,000	0	
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0	
2-4 Spill	nos		705,212	0	141,042	0	564,170	0	
Sub-total					0		0		0
3. Ancut (Grade I): 50%									
3-1 Body	nos	1	703,877	703,877	140,775	140,775	563,102	563,102	
3-2 Gate	nos	2	140,000	280,000	28,000	56,000	112,000	224,000	
3-3 Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536	
3-4 Spill	nos		352,606	0	70,521	0	282,085	0	
Sub-total					1,088,297		217,659		870,638
4. Canal Structures (Grade C)									
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0	
	type-IIi	nos	127,233	127,233	25,447	25,447	101,787	101,787	
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0	
	type-III	nos	24,036	24,036	4,807	4,807	19,229	19,229	
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0	
	type-IIr	nos	46,630	46,630	9,326	9,326	37,304	37,304	
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0	
	type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536	
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0	
	type-IIu	nos	60,606	60,606	12,121	12,121	48,485	48,485	
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0	
	type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245	
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0	
	type-IIo	nos	106,982	106,982	21,396	21,396	85,586	85,586	
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0	
	type-IIp	nos	12,283	12,283	2,457	2,457	9,826	9,826	
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0	
	type-IIa	nos	25,167	0	5,033	0	20,134	0	
Sub-total					451,248		90,250		360,998
5. Canal Structures (Grade B) : 100%									
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0	
	type-IIi	nos	127,233	0	25,447	0	101,787	0	
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0	
	type-III	nos	24,036	72,108	4,807	14,422	19,229	57,687	
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0	
	type-IIr	nos	46,630	93,261	9,326	18,652	37,304	74,609	
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0	
	type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536	
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0	
	type-IIu	nos	60,606	60,606	12,121	12,121	48,485	48,485	
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0	
	type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245	
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0	
	type-IIo	nos	106,982	106,982	21,396	21,396	85,586	85,586	
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0	
	type-IIp	nos	12,283	0	2,457	0	9,826	0	
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0	
	type-IIa	nos	25,167	75,501	5,033	15,100	20,134	60,401	
Sub-total					481,935		96,387		385,548
Total					4,479,320		895,864		3,583,456

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (17/18)

K-17 Maha Anicut

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	2,200	1,561	3,433,614	312	686,723	1,249	2,746,892
	type-BVII	m		1,294	0	259	0	1,035	0
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					3,433,614		686,723		2,746,892
2. Anicut (Grade C)									
	2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
	2-1 Gate	nos	5	280,000	1,400,000	56,000	280,000	224,000	1,120,000
	2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
	2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total					1,400,000		280,000		1,120,000
3. Anicut (Grade C): 50%									
	3-1 Body	nos		703,877	0	140,775	0	563,102	0
	3-2 Gate	nos		140,000	0	28,000	0	112,000	0
	3-3 Revetment	nos	1	104,420	104,420	20,884	20,884	83,536	83,536
	3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total					104,420		20,884		83,536
4. Canal Structures (Grade C)									
	4-1 Intake	type-Ii	nos	1	333,543	333,543	66,709	66,709	266,834
		type-Iii	nos	2	127,233	254,467	25,447	50,893	101,787
	4-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909
		type-Ilt	nos	3	24,036	72,108	4,807	14,422	19,229
	4-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos	2	46,630	93,261	9,326	18,652	37,304
	4-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-Ild	nos	1	33,170	33,170	6,634	6,634	26,536
	4-5 Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos	1	60,606	60,606	12,121	12,121	48,485
	4-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245
	4-7 Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos	1	106,982	106,982	21,396	21,396	85,586
	4-8 Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-Ipp	nos	2	12,283	24,566	2,457	4,913	9,826
	4-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos		25,167	0	5,033	0	20,134
Sub-total					1,019,010		203,802		815,208
5. Canal Structures (Grade B) : 100%									
	5-1 Intake	type-Ii	nos		333,543	0	66,709	0	266,834
		type-Iii	nos		127,233	0	25,447	0	101,787
	5-2 Turnout	type-It	nos		36,136	0	7,227	0	28,909
		type-Ilt	nos	7	24,036	168,253	4,807	33,651	19,229
	5-3 Regulator	type-Ir	nos		62,564	0	12,513	0	50,052
		type-Irr	nos	4	46,630	186,522	9,326	37,304	37,304
	5-4 Drop	type-Id	nos		80,731	0	16,146	0	64,585
		type-Ild	nos	2	33,170	66,341	6,634	13,268	26,536
	5-5 Under Crossing	type-Iu	nos		65,198	0	13,040	0	52,159
		type-Iuu	nos	2	60,606	121,211	12,121	24,242	48,485
	5-6 Spillway	type-Iw	nos		80,613	0	16,123	0	64,491
		type-Iww	nos	2	40,307	80,613	8,061	16,123	32,245
	5-7 Over Bridge	type-Io	nos		206,648	0	41,330	0	165,318
		type-Ioo	nos	2	106,982	213,964	21,396	42,793	85,586
	5-8 Parshall Flume	type-Ip	nos		18,312	0	3,662	0	14,649
		type-Ipp	nos		12,283	0	2,457	0	9,826
	5-9 Aqueduct	type-Ia	nos		2,906,525	0	581,305	0	2,325,220
		type-Iaa	nos	4	25,167	100,668	5,033	20,134	80,535
Sub-total					937,573		187,515		750,058
Total					7,174,617		2,498,923		4,675,694

App.5.3-4 Construction Cost of Muruthawela Reservoir Scheme

Kirama

- Kirama Oya Scheme - (18/18)

K-18 Danketiya Anicut

Construction Works	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m		1,294	0	259	0	1,035	0
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				0	0	0	0	0
2. Anicut (Grade C)								
2-1 Body	nos		1,407,754	0	281,551	0	1,126,203	0
2-1 Gate	nos		280,000	0	56,000	0	224,000	0
2-3 Revetment	nos		208,841	0	41,768	0	167,073	0
2-4 Spill	nos		705,212	0	141,042	0	564,170	0
Sub-total				0	0	0	0	0
3. Anicut (Grade I: 50%)								
3-1 Body	nos		703,877	0	140,775	0	563,102	0
3-2 Gate	nos		140,000	0	28,000	0	112,000	0
3-3 Revetment	nos		104,420	0	20,884	0	83,536	0
3-4 Spill	nos		352,606	0	70,521	0	282,085	0
Sub-total				0	0	0	0	0
4. Canal Structures (Grade C)								
4-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
4-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
4-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
4-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
4-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IUu	nos	60,606	0	12,121	0	48,485	0
4-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IWw	nos	40,307	0	8,061	0	32,245	0
4-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
4-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
4-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IaA	nos	25,167	0	5,033	0	20,134	0
Sub-total				0	0	0	0	0
5. Canal Structures (Grade B) : 100%								
5-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
5-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
5-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
5-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
5-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IUu	nos	60,606	0	12,121	0	48,485	0
5-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IWw	nos	40,307	0	8,061	0	32,245	0
5-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
5-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
5-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IaA	nos	25,167	0	5,033	0	20,134	0
Sub-total				0	0	0	0	0
Total				0	0	0	0	0
Kirama Total				114,838,791	35,467,552	79,371,238		

App.5.3-5 Construction Cost of Badagiriya Scheme (1/13)

B-1 Badagiriya Tank

Construction Works	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Main Structure								
2. Intake Work								
3. Spillway								
Total								

B-2 Main Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m	500	2,413	1,206,616	483	241,323	1,931	965,292
type-BV	m	200	2,010	402,066	402	80,413	1,608	321,653
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	900	1,294	1,164,240	259	232,848	1,035	931,392
type-EI	m		430	0	86	0	344	0
type-EII	m	4,800	349	1,677,488	70	335,498	280	1,341,990
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				4,450,410		890,082		3,560,328
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	403,066	16,123	80,613	64,491	322,453
	type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				403,066		80,613		322,453
3. Canal Structures (Grade B)								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	325,226	7,227	65,045	28,909	260,180
	type-IIt	nos	24,036	168,253	4,807	33,651	19,229	134,602
3-3 Regulator	type-Ir	nos	62,564	312,822	12,513	62,564	50,052	250,258
	type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	80,613	16,123	16,123	64,491	64,491
	type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos	206,648	1,239,885	41,330	247,977	165,318	991,908
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				2,126,799		425,360		1,701,439
Total				6,980,275		1,396,055		5,584,220

App.5.3-5 Construction Cost of Badagiriya Scheme (2/13)

B-3 FC I Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	ni		2,413	0	483	0	1,931	0
	type-BV	ni		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	ni	900	1,294	1,164,240	259	232,848	1,035	931,392
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				1,164,240		232,848		931,392
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				0	0	0	0	0
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	745,119	4,807	149,024	19,229	596,095
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	199,023	6,634	39,805	26,536	159,218
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				1,084,033		216,807		867,226
Total					2,248,272		449,654		1,798,618

App.5.3-5 Construction Cost of Badagiriya Scheme (3/13)

B-4 FC 4 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	300	1,294	388,080	259	77,616	1,035	310,464
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				388,080		77,616		310,464
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-III	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				0		0		0
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	252,953	7,227	50,591	28,909	202,363
		type-III	nos	24,036	0	4,807	0	19,229	0
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	0	6,634	0	26,536	0
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				252,953		50,591		202,363
Total					641,033		128,207		512,826

App.5.3-5 Construction Cost of Badagiriya Scheme (4/13)

B-5 FC 8 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,928
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				776,160		155,232		620,928
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	66,341	6,634	13,268	26,536	53,073
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				106,647		21,329		85,318
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	108,409	7,227	21,682	28,909	86,727
		type-IIIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	93,261	9,326	18,652	37,304	74,609
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	106,982	21,396	21,396	85,586	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				447,101		89,420		357,681
Total					1,329,908		265,982		1,063,926

App.5.3-5 Construction Cost of Badagiriya Scheme (5/13)

Badagiriya

B-6 FC 9A Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	300	1,294	388,080	259	77,616	1,035	310,464
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				388,080		77,616		310,464
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				40,307		8,061		32,245
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	72,272	7,227	14,454	28,909	57,818
		type-IIt	nos	24,036	48,072	4,807	9,614	19,229	38,458
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				307,128		61,426		245,702
Total					735,514		147,103		588,411

App.5.3-5 Construction Cost of Badagiriya Scheme (6/13)

Badagiriya

B-7 FC 9B Canal

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				517,440		103,488		413,952
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIIt	nos	24,036	0	4,807	0	19,229	0
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IIId	nos	33,170	0	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-IIp	nos	12,283	0	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total				40,307		8,061		32,245
3. Canal Structures (Grade B)								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	72,272	7,227	14,454	28,909	57,818
	type-IIIt	nos	24,036	48,072	4,807	9,614	19,229	38,458
3-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-IIr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IIId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-IIw	nos	40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-IIo	nos	106,982	106,982	21,396	21,396	85,586	85,586
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-IIa	nos	25,167	0	5,033	0	20,134	0
Sub-total				307,128		61,426		245,702
Total				864,874		172,975		691,899

App.5.3-5 Construction Cost of Badagiriya Scheme (7/13)

Badagiriya

B-8 DC 1 Canal (DC1, FC13, FC19, FC20)

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m	800	1,561	1,248,587	312	249,717	1,249	998,870
type-BVII	m	2,700	1,294	3,492,719	259	698,544	1,035	2,794,175
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				4,741,306		948,261		3,793,045
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	120,920	8,061	24,184	32,245	96,736
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				120,920		24,184		96,736
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	11	36,136	397,498	7,227	79,500	317,998
	type-IIt	nos	12	24,036	288,433	4,807	57,687	230,746
3-3 Regulator	type-Ir	nos	6	62,564	0	12,513	0	50,052
	type-Irr	nos	6	46,630	279,783	9,326	55,957	223,826
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	6	33,170	199,023	6,634	39,805	159,218
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	1	40,307	40,307	8,061	8,061	32,245
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	6	106,982	641,893	21,396	128,379	513,515
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				1,846,936		369,387		1,477,549
Total				6,709,162		1,341,832		5,367,330

App.5.3-5 Construction Cost of Badagiriya Scheme (8/13)

Badagiriya

B-9 FC 25 Canal (FC25, FC26)

Construction Works		Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
I. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	400	1,294	517,440	259	103,488	1,035	413,952
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				517,440		103,488		413,952
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	80,613	8,061	16,123	32,245	64,491
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				80,613		16,123		64,491
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	72,272	7,227	14,454	28,909	57,818
		type-IIt	nos	24,036	72,108	4,807	14,422	19,229	57,687
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				517,947		103,589		414,357
Total					1,116,000		223,200		892,800

App.5.3-5 Construction Cost of Badagiriya Scheme (9/13)

B-10 FC 29 Canal

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	300	1,294	388,080	259	77,616	1,035	310,464
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					388,080		77,616		310,464
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	40,307	8,061	8,061	32,245	32,245
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					40,307		8,061		32,245
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	36,136	7,227	7,227	28,909	28,909
		type-IIt	nos	24,036	24,036	4,807	4,807	19,229	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	46,630	9,326	9,326	37,304	37,304
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	33,170	6,634	6,634	26,536	26,536
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	106,982	21,396	21,396	85,586	85,586
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					246,955		49,391		197,564
Total					675,342		135,068		540,273

App.5.3-5 Construction Cost of Badagiriya Scheme (10/13)

B-11 DC 3 Canal (DC2, FC35)

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	400	1,561	624,294	312	124,859	1,249	499,435
	type-BVII	m	500	1,294	646,800	259	129,360	1,035	517,440
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
Sub-total					1,271,093		254,219		1,016,875
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IUu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	80,613	8,061	16,123	32,245	64,491
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					80,613		16,123		64,491
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	108,409	7,227	21,682	28,909	86,727
		type-IIt	nos	24,036	96,144	4,807	19,229	19,229	76,915
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	93,261	9,326	18,652	37,304	74,609
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	66,341	6,634	13,268	26,536	53,073
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IUu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IWw	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	213,964	21,396	42,793	85,586	171,172
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total					578,119		115,624		462,495
Total					1,929,826		385,965		1,543,860

App.5.3-5 Construction Cost of Badagiriya Scheme (11/13)

B-12 FC 39

Construction Works		Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m		1,561	0	312	0	1,249	0
	type-BVII	m	600	1,294	776,160	259	155,232	1,035	620,928
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				776,160		155,232		620,928
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				0	0	0	0	0
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	36,136	7,227	7,227	28,909	28,909
		type-IIt	nos	24,036	24,036	4,807	4,807	19,229	19,229
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-Irr	nos	46,630	0	9,326	0	37,304	0
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IId	nos	33,170	364,875	6,634	72,975	26,536	291,900
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-Ioo	nos	106,982	0	21,396	0	85,586	0
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-Iaa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				425,047		85,009		340,038
Total					1,201,207		240,241		960,965

App.5.3-5 Construction Cost of Badagiriya Scheme (12/13)

B-13 DC 4 (DC4, FC41, FC42)

Construction Works		Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
				Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works									
	type-BI	m		3,607	0	721	0	2,885	0
	type-BII	m		2,984	0	597	0	2,388	0
	type-BIII	m		2,754	0	551	0	2,203	0
	type-BIV	m		2,413	0	483	0	1,931	0
	type-BV	m		2,010	0	402	0	1,608	0
	type-BVI	m	500	1,561	780,367	312	156,073	1,249	624,294
	type-BVII	m	1,100	1,294	1,422,960	259	284,592	1,035	1,138,368
	type-EI	m		430	0	86	0	344	0
	type-EII	m		349	0	70	0	280	0
	type-EIII	m		300	0	60	0	240	0
	type-EIV	m		63	0	13	0	50	0
	Sub-total				2,203,327		440,665		1,762,661
2. Canal Structures (Grade C)									
2-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
2-2	Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
		type-IIIt	nos	24,036	0	4,807	0	19,229	0
2-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	0	9,326	0	37,304	0
2-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	0	6,634	0	26,536	0
2-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
2-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	80,613	8,061	16,123	32,245	64,491
2-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	0	21,396	0	85,586	0
2-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
2-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				80,613		16,123		64,491
3. Canal Structures (Grade B) : 100%									
3-1	Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
		type-IIi	nos	127,233	0	25,447	0	101,787	0
3-2	Turnout	type-It	nos	36,136	325,226	7,227	65,045	28,909	260,180
		type-IIIt	nos	24,036	240,361	4,807	48,072	19,229	192,289
3-3	Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
		type-IIr	nos	46,630	139,891	9,326	27,978	37,304	111,913
3-4	Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
		type-IIId	nos	33,170	132,682	6,634	26,536	26,536	106,145
3-5	Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
		type-IIu	nos	60,606	0	12,121	0	48,485	0
3-6	Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
		type-IIw	nos	40,307	40,307	8,061	8,061	32,245	32,245
3-7	Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
		type-IIo	nos	106,982	320,947	21,396	64,189	85,586	256,757
3-8	Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
		type-IIp	nos	12,283	0	2,457	0	9,826	0
3-9	Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
		type-IIa	nos	25,167	0	5,033	0	20,134	0
	Sub-total				1,199,413		239,883		959,530
Total					3,483,352		696,670		2,786,682

App.5.3-5 Construction Cost of Badagiriya Scheme (13/13)

B-14 Proposed Area (DC4, FC44, FC45, FC46, FC47, FC48, FC49))

Construction Works	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Canal Works								
type-BI	m		3,607	0	721	0	2,885	0
type-BII	m		2,984	0	597	0	2,388	0
type-BIII	m		2,754	0	551	0	2,203	0
type-BIV	m		2,413	0	483	0	1,931	0
type-BV	m		2,010	0	402	0	1,608	0
type-BVI	m		1,561	0	312	0	1,249	0
type-BVII	m	4,100	1,294	5,303,758	259	1,060,752	1,035	4,243,007
type-EI	m		430	0	86	0	344	0
type-EII	m		349	0	70	0	280	0
type-EIII	m		300	0	60	0	240	0
type-EIV	m		63	0	13	0	50	0
Sub-total				5,303,758		1,060,752		4,243,007
2. Canal Structures (Grade C)								
2-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
2-2 Turnout	type-It	nos	36,136	0	7,227	0	28,909	0
	type-IIt	nos	2	24,036	48,072	4,807	9,614	19,229
2-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	46,630	0	9,326	0	37,304	0
2-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	33,170	0	6,634	0	26,536	0
2-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
2-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	7	40,307	282,146	8,061	56,429	32,245
2-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	106,982	0	21,396	0	85,586	0
2-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
2-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				330,218		66,044		264,175
3. Canal Structures (Grade B) : 100%								
3-1 Intake	type-Ii	nos	333,543	0	66,709	0	266,834	0
	type-Iii	nos	127,233	0	25,447	0	101,787	0
3-2 Turnout	type-It	nos	36,136	433,634	7,227	86,727	28,909	346,907
	type-IIt	nos	12	24,036	288,433	4,807	57,687	19,229
3-3 Regulator	type-Ir	nos	62,564	0	12,513	0	50,052	0
	type-Irr	nos	7	46,630	326,413	9,326	65,283	37,304
3-4 Drop	type-Id	nos	80,731	0	16,146	0	64,585	0
	type-IId	nos	7	33,170	232,193	6,634	46,439	26,536
3-5 Under Crossing	type-Iu	nos	65,198	0	13,040	0	52,159	0
	type-Iuu	nos	60,606	0	12,121	0	48,485	0
3-6 Spillway	type-Iw	nos	80,613	0	16,123	0	64,491	0
	type-Iww	nos	40,307	0	8,061	0	32,245	0
3-7 Over Bridge	type-Io	nos	206,648	0	41,330	0	165,318	0
	type-Ioo	nos	7	106,982	748,876	21,396	149,775	85,586
3-8 Parshall Flume	type-Ip	nos	18,312	0	3,662	0	14,649	0
	type-Ipp	nos	12,283	0	2,457	0	9,826	0
3-9 Aqueduct	type-Ia	nos	2,906,525	0	581,305	0	2,325,220	0
	type-Iaa	nos	25,167	0	5,033	0	20,134	0
Sub-total				2,029,549		405,910		1,623,639
4. Land Conservation								
4-1 Clearing & Grubbing	ha	86.2	19,055	1,642,512	3,811	328,502	15,244	1,314,010
4-2 #####				492,754		98,551		394,203
Sub-total				1,741,063		427,053		1,314,010
Total				9,404,589	1,959,758	7,444,831		

App.5.3-6 Construction Cost of Benthara Ganga RB Scheme

App Benthara Ganga RB Scheme

Benthara Ganga RB Scheme - Alternative I-

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
(1) Replacement of SWE Structures	nos	14	3,753,311	52,546,357	750,662	10,509,271	3,002,649	42,037,086
(2) Resectioning of Drainage Canal								
type a	m	8,720	155	1,347,571	31	269,514	124	1,078,057
type b	m	4,020	390	1,565,902	78	313,180	312	1,252,722
type c	m	4,530	534	2,420,264	107	484,053	427	1,936,211
sub-total(2)				5,333,737		1,066,747		4,266,990
(3) Provison of Small Drainage Canals								
type d	m	6,550	274	1,793,451	55	358,690	219	1,434,761
(4) Improvement of Bund	m	15,300	4,124	63,091,142	825	12,618,228	3,299	50,472,914
Total				122,764,688		24,552,938		98,211,751

Benthara Ganga RB Scheme - Alternative II-

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
(1) Replacement of SWE Structures	nos	14	3,753,311	52,546,357	750,662	10,509,271	3,002,649	42,037,086
(2) Resectioning of Drainage Canal								
type a	m	8,720	155	1,347,571	31	269,514	124	1,078,057
type b	m	4,020	390	1,565,902	78	313,180	312	1,252,722
type c	m	4,530	534	2,420,264	107	484,053	427	1,936,211
sub-total(2)				5,333,737		1,066,747		4,266,990
(3) Provison of Small Drainage Canals								
type d	m	4,870	274	1,333,452	55	266,690	219	1,066,761
(4) Improvement of Bund	m	15,300	4,124	63,091,142	825	12,618,228	3,299	50,472,914
(5) Provision of Pump Stations	nos	5	99,000,000	495,000,000	19,800,000	99,000,000	79,200,000	396,000,000
Total				617,304,689		123,460,938		493,843,751

App.5.3-7 Construction Cost of Polwatte Ganga Scheme

App Polwatte Ganga Scheme

Polwatte Ganga Scheme

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
(1) Resectioning and Dredging of Canal (type e)	m	12,530	81	1,018,327	16	203,665	65	814,662
(2) Provision of Embankment	m	2,630	767	2,018,035	153	403,607	614	1,614,428
(3) Improvement of Ilwatie Anicuts	nos	1	90,000,000	18,000,000	18,000,000	72,000,000	72,000,000	72,000,000
(4) Construction of Anicuts	nos	7	3,227,754	22,594,278	645,551	4,518,856	2,582,203	18,075,422
Total				115,630,641		23,126,128		92,504,513

App.5.3-8 Construction Cost of Thangalu Welyaya Scheme

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
(1) Provision of Main Drainage Canals	(type f) m	8,610	684	5,889,857	137	1,177,971	547	4,711,885
(2) Construction of Culvert with Gates	nos	17	333,543	5,670,227	66,709	1,134,045	266,834	4,536,181
(3) Provision of Small Drainage Canals	(type g) m	9,700	153	1,488,087	31	297,617	123	1,190,470
(4) Canal Excavation	(type h) m	2,030	344	697,960	69	139,592	275	558,368
(5) Canal Enlargement	(type h) m	2,410	344	828,613	69	165,723	275	662,890
(6) Protection Works	nos	14	35,540	497,563	7,108	99,513	28,432	398,050
(7) Resection of Bunds	(type a) m	1,520	4,124	6,267,878	825	1,253,576	3,299	5,014,303
(8) Dredging & Resectioning of Kirama ek	(type h) m	890	344	306,002	69	61,200	275	244,802
(9) New Groynes	nos	2	6,194,235	12,388,470	1,238,847	2,477,694	4,955,388	9,910,776
(10) Replacement of Anicuts								
Kariija SWE (W)	nos	1	13,901,668	13,901,668	2,780,334	2,780,334	11,121,334	11,121,334
Kariija SWE (S)	nos	1	10,166,748	10,166,748	2,033,350	2,033,350	8,133,398	8,133,398
Weejjetota anicut	nos	1	6,431,828	6,431,828	1,286,366	1,286,366	5,145,462	5,145,462
sub-total				30,500,243		6,100,049		24,400,195
(11) Provision of Pump Station	nos	1	19,000,000	19,000,000	3,800,000	3,800,000	15,200,000	15,200,000
Total				83,534,901		16,706,980		66,827,921

App.5.4-1 Cost Breakdown of Canal Works (1/3)

Canal Works

B-1 Brick Lining : Type-BI (per meter) BxH=5.0x1.9m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Excavation Common	m3	0.00	74	0	15	0	60	0
2. Excavation Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling	m3	9.69	60	584	12	117	48	467
4. Slop Protection Turffing	m2	1.13	17	19	3	4	14	15
5. Brick Mosonry Lining	m3	1.25	1,509	1,886	302	377	1,207	1,509
6. Mass concrete (1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement	kg	0.00	44	0	9	0	35	0
8. Shuttering 3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way Gravel	m3	0.90	151	136	30	27	121	109
sub-total				3,005		601		2,404
Miscel Work (20%)				601		120		481
Total				3,607		721		2,885

B-2 Brick Lining : Type-BII (per meter) BxH=4.0x1.9m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Excavation Common	m3	0.00	74	0	15	0	60	0
2. Excavation Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling	m3	3.59	60	216	12	43	48	173
4. Slop Protection Turffing	m2	1.13	17	19	3	4	14	15
5. Brick Mosonry Lining	m3	1.15	1,509	1,735	302	347	1,207	1,388
6. Mass concrete (1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement	kg	0.00	44	0	9	0	35	0
8. Shuttering 3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way Gravel	m3	0.90	151	136	30	27	121	109
sub-total				2,487		497		1,990
Miscel Work (20%)				497		99		398
Total				2,984		597		2,388

B-3 Brick Lining : Type-BIII (per meter) BxH=3.0x1.8m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Excavation Common	m3	0.00	74	0	15	0	60	0
2. Excavation Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling	m3	4.16	60	251	12	50	48	201
4. Slop Protection Turffing	m2	1.13	17	19	3	4	14	15
5. Brick Mosonry Lining	m3	1.00	1,509	1,509	302	302	1,207	1,207
6. Mass concrete (1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement	kg	0.00	44	0	9	0	35	0
8. Shuttering 3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way Gravel	m3	0.90	151	136	30	27	121	109
sub-total				2,295		459		1,836
Miscel Work (20%)				459		92		367
Total				2,754		551		2,203

B-4 Brick Lining : Type-BIV (per meter) BxH=2.0x1.3m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)	
			Unit price	Amount	Unit price	Amount	Unit price	Amount
1. Excavation Common	m3	0.00	74	0	15	0	60	0
2. Excavation Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling	m3	7.04	60	424	12	85	48	339
4. Slop Protection Turffing	m2	0.85	17	15	3	3	14	12
5. Brick Mosonry Lining	m3	0.70	1,509	1,056	302	211	1,207	845
6. Mass concrete (1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement	kg	0.00	44	0	9	0	35	0
8. Shuttering 3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way Gravel	m3	0.90	151	136	30	27	121	109
sub-total				2,011		402		1,609
Miscel Work (20%)				402		80		322
Total				2,413		483		1,931

App.5.4-1 Cost Breakdown of Canal Works (2/3)

Canal Works

B-5 Brick Lining : Type-BV (per meter)

BxH=1.0x1.5m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	2.72	60	164	12	33	48	131
4. Slop Protection	Turffing	m2	0.85	17	15	3	3	14	12
5. Brick Mosonry Lining		m3	0.65	1,509	981	302	196	1,207	785
6. Mass concrete	(1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				1,675		335		1,340
	Miscel Work (20%)				335		67		268
	Total				2,010		402		1,608

B-6 Brick Lining : Type-BVI (per meter)

BxH=0.8x1.2m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	0.68	60	41	12	8	48	33
4. Slop Protection	Turffing	m2	1.13	17	19	3	4	14	15
5. Brick Mosonry Lining		m3	0.48	1,509	724	302	145	1,207	579
6. Mass concrete	(1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				1,301		260		1,040
	Miscel Work (20%)				260		52		208
	Total				1,561		312		1,249

B-7 Brick Lining : Type-BVII (per meter)

BxH=0.6x1.2m

Work Items	Unit	Quantity	Total Cost (Rs)		Forein Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	0.30	60	18	12	4	48	14
4. Slop Protection	Turffing	m2	0.04	17	1	3	0	14	1
5. Brick Mosonry Lining		m3	0.36	1,509	543	302	109	1,207	435
6. Mass concrete	(1:4:8)	m3	0.12	2,115	254	423	51	1,692	203
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.60	210	126	42	25	168	101
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				1,078		216		862
	Miscel Work (20%)				216		43		172
	Total				1,294		259		1,035

App.5.4-1 Cost Breakdown of Canal Works (3/3)

Canal Works

E-1 Earth Lining : Type-EI (per meter) BxH=5.0x2.2m

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	3.21	60	193	12	39	48	155
4. Slop Protection	Turffing	m2	1.70	17	29	3	6	14	23
5. Brick Masonry Lining		m3	0.00	0	302	0	1,207	0	
6. Mass concrete	(1:4:8)	m3	0.00	2,115	0	423	0	1,692	0
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.00	210	0	42	0	168	0
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				359		72		287
Miscel Work (20%)				72		14			57
Total				430		86			344

E-2 Earth Lining : Type-EII (per meter) BxH=3.0x2.0m

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	2.09	60	126	12	25	48	101
4. Slop Protection	Turffing	m2	1.70	17	29	3	6	14	23
5. Brick Masonry Lining		m3	0.00	0	302	0	1,207	0	
6. Mass concrete	(1:4:8)	m3	0.00	2,115	0	423	0	1,692	0
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.00	210	0	42	0	168	0
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				291		58		233
Miscel Work (20%)				58		12			47
Total				349		70			280

E-3 Earth Lining : Type-EIII (per meter) BxH=1.5x1.4m

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	1.49	60	90	12	18	48	72
4. Slop Protection	Turffing	m2	1.41	17	24	3	5	14	19
5. Brick Masonry Lining		m3	0.00	0	302	0	1,207	0	
6. Mass concrete	(1:4:8)	m3	0.00	2,115	0	423	0	1,692	0
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.00	210	0	42	0	168	0
9. Wearing Road way	Gravel	m3	0.90	151	136	30	27	121	109
	sub-total				250		50		200
Miscel Work (20%)				50		10			40
Total				300		60			240

E-4 Earth Lining : Type-EIV (per meter) BxH=0.8x0.7m

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.00	74	0	15	0	60	0
2. Excavation	Rock	m3	0.00	248	0	50	0	198	0
3. Earthfilling		m3	0.71	60	43	12	9	48	34
4. Slop Protection	Turffing	m2	0.57	17	10	3	2	14	8
5. Brick Masonry Lining		m3	0.00	1,509	0	302	0	1,207	0
6. Mass concrete	(1:4:8)	m3	0.00	2,115	0	423	0	1,692	0
7. Reinforcement		kg	0.00	44	0	9	0	35	0
8. Shuttering	3 uses	m2	0.00	210	0	42	0	168	0
9. Wearing Road way	Gravel	m3	0.00	151	0	30	0	121	0
	sub-total				53		11		42
Miscel Work (20%)				11		2			8
Total				63		13			50

App.5.4-2 Cost Breakdown of Canal Structures (1/8)

Canal Structures

S-1 Intake : Type-II (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	148.6	74	11,064	14.9	2,213	59.6	8,852
2. Earthfilling		m3	50.7	60	3,055	12.1	611	48.2	2,444
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	26.3	2,709	71,247	541.8	14,249	2,167.2	56,998
5. Mass concrete	(1:4:8)	m3	40.3	2,115	85,225	423.0	17,045	1,691.8	68,180
6. Reinforcement		kg	263.0	44	11,668	8.9	2,334	35.5	9,335
7. Shuttering	3 uses	m2	256.4	210	53,836	42.0	10,767	168.0	43,069
8. Gate for turnout		nos	0.0	0	0	0	0	0	0
9. Wooden gate for reg 4'x4'		nos	2.0	510	1,020	102.0	204	408.0	816
10. RCC Pipe laying		nos	0.0	0	0	0	0	0	0
11. Rubble Masonry		m3	12.8	1,520	19,456	304.0	3,891	1,216.0	15,564
	sub-total				256,571		51,314		205,257
	Miscel Work (30%)				76,971		15,394		61,577
	Total				333,543		66,709		266,834

S-2 Intake : Type-III (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	71.9	74	5,354	14.9	1,071	59.6	4,283
2. Earthfilling		m3	37.4	60	2,254	12.1	451	48.2	1,803
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	8.0	2,709	21,672	541.8	4,334	2,167.2	17,338
5. Mass concrete	(1:4:8)	m3	13.2	2,115	27,915	423.0	5,583	1,691.8	22,332
6. Reinforcement		kg	204.0	44	9,051	8.9	1,810	35.5	7,241
7. Shuttering	3 uses	m2	81.6	210	17,133	42.0	3,427	168.0	13,707
8. Gate for turnout		nos	0.0	0	0	0	0	0	0
9. Wooden gate for reg 4'x4'		nos	1.0	510	510	102.0	102	408.0	408
10. RCC Pipe laying		nos	0.0	0	0	0	0	0	0
11. Rubble Masonry		m3	9.2	1,520	13,984	304.0	2,797	1,216.0	11,187
	sub-total				97,872		19,574		78,298
	Miscel Work (30%)				29,362		5,872		23,489
	Total				127,233		25,447		101,787

S-3 Turnout : Type-II (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.7	74	572	14.9	114	59.6	457
2. Earthfilling		m3	6.2	60	376	12.1	75	48.2	301
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	1.9	2,709	5,174	541.8	1,035	2,167.2	4,139
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	19.1	44	847	8.9	169	35.5	678
7. Shuttering	3 uses	m2	7.6	210	1,604	42.0	321	168.0	1,283
8. Gate for turnout	D=18"	nos	1.0	11,195	11,195	2,239.0	2,239	8,956.2	8,956
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	6.5	1,178	7,654	235.5	1,531	942.1	6,123
11. Rubble Masonry		m3	1.8	1,520	2,690	304.0	538	1,216.0	2,152
	sub-total				30,113		6,023		24,091
	Miscel Work (20%)				6,023		1,205		4,818
	Total				36,136		7,227		28,909

S-4 Turnout : Type-III (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.7	74	572	14.9	114	59.6	457
2. Earthfilling		m3	6.2	60	376	12.1	75	48.2	301
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	1.8	2,709	4,795	541.8	959	2,167.2	3,836
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	16.6	44	736	8.9	147	35.5	589
7. Shuttering	3 uses	m2	6.6	210	1,394	42.0	279	168.0	1,115
8. Gate for turnout	D=9"	nos	1.0	4,280	4,280	855.9	856	3,423.6	3,424
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=9"	m	6.5	561	3,646	112.2	729	448.7	2,917
11. Rubble Masonry		m3	1.8	1,520	2,690	304.0	538	1,216.0	2,152
	sub-total				18,489		3,698		14,791
	Miscel Work (30%)				5,547		1,109		4,437
	Total				24,036		4,807		19,229

App.5.4-2 Cost Breakdown of Canal Structures (2/8)

Canal Structures

S-5 Regulator : Type-Ir (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	10.8	74	806	14.9	161	59.6	645
2. Earthfilling		m3	5.8	60	352	12.1	70	48.2	282
3. Slop protection	Turffling	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	10.3	2,709	27,794	541.8	5,559	2,167.2	22,236
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	102.6	44	4,552	8.9	910	35.5	3,642
7. Shuttering	3 uses	m2	41.0	210	8,617	42.0	1,723	168.0	6,894
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for reg 4.5'x4.5'		nos	2.0	700	1,400	140.0	280	560.0	1,120
10. RCC Pipe laying		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	3.0	1,520	4,606	304.0	921	1,216.0	3,684
	sub-total				48,127		9,625		38,501
Miscel Work (30%)					14,438		2,888		11,550
Total					62,564		12,513		50,052

S-6 Regulator : Type-IIIr (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.1	74	526	14.9	105	59.6	421
2. Earthfilling		m3	3.5	60	209	12.1	42	48.2	167
3. Slop protection	Turffling	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	7.7	2,709	20,724	541.8	4,145	2,167.2	16,579
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	76.5	44	3,394	8.9	679	35.5	2,715
7. Shuttering	3 uses	m2	30.6	210	6,425	42.0	1,285	168.0	5,140
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for reg 4.5'x4.5'		nos	1.0	700	700	140.0	140	560.0	560
10. RCC Pipe laying		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	2.6	1,520	3,891	304.0	778	1,216.0	3,113
	sub-total				35,870		7,174		28,696
Miscel Work (30%)					10,761		2,152		8,609
Total					46,630		9,326		37,304

S-7 Drop : Type-Id (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	61.9	74	4,610	14.9	922	59.6	3,688
2. Earthfilling		m3	3.4	60	205	12.1	41	48.2	164
3. Slop protection	Turffling	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	13.8	2,709	37,384	541.8	7,477	2,167.2	29,907
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	138.0	44	6,123	8.9	1,225	35.5	4,898
7. Shuttering	3 uses	m2	55.2	210	11,590	42.0	2,318	168.0	9,272
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	1.4	1,520	2,189	304.0	438	1,216.0	1,751
	sub-total				62,101		12,420		49,681
Miscel Work (30%)					18,630		3,726		14,904
Total					80,731		16,146		64,585

S-8 Drop : Type-IId (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	28.3	74	2,108	14.9	422	59.6	1,686
2. Earthfilling		m3	3.0	60	178	12.1	36	48.2	143
3. Slop protection	Turffling	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete	(1:2:4)	m3	5.3	2,709	14,276	541.8	2,855	2,167.2	11,421
5. Mass concrete	(1:4:8)	m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	52.7	44	2,338	8.9	468	35.5	1,870
7. Shuttering	3 uses	m2	21.1	210	4,426	42.0	885	168.0	3,541
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	1.4	1,520	2,189	304.0	438	1,216.0	1,751
	sub-total				25,516		5,103		20,413
Miscel Work (30%)					7,655		1,531		6,124
Total					33,170		6,634		26,536

App.5.4-2 Cost Breakdown of Canal Structures (3/8)

Canal Structures

S-9 Under Crossing : Type-Iu (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.6	74	569	14.9	114	59.6	455
2. Earthfilling		m3	2.5	60	149	12.1	30	48.2	119
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	8.4	2,709	22,756	541.8	4,551	2,167.2	18,205
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	84.0	44	3,727	8.9	745	35.5	2,981
7. Shuttering	3 uses	m2	33.6	210	7,055	42.0	1,411	168.0	5,644
8. Gate for turnout		nos	0.0	0	0	0	0	0	0
9. Wooden gate for regulator		nos	0.0	310	0	62.0	0	248.0	0
10. RCC Pipe laying	D=18"	nos	13.5	1,178	15,897	235.5	3,179	942.1	12,718
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				50,153		10,031		40,122
	Miscel Work (30%)				15,046		3,009		12,037
	Total				65,198		13,040		52,159

S-10 Under Crossing : Type-Ilu (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.6	74	569	14.9	114	59.6	455
2. Earthfilling		m3	2.5	60	149	12.1	30	48.2	119
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	8.4	2,709	22,756	541.8	4,551	2,167.2	18,205
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	84.0	44	3,727	8.9	745	35.5	2,981
7. Shuttering	3 uses	m2	33.6	210	7,055	42.0	1,411	168.0	5,644
8. Gate for turnout		nos	0.0	0	0	0	0	0	0
9. Wooden gate for regulator		nos	0.0	310	0	62.0	0	248.0	0
10. RCC Pipe laying	D=18"	nos	10.5	1,178	12,365	235.5	2,473	942.1	9,892
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				46,620		9,324		37,296
	Miscel Work (30%)				13,986		2,797		11,189
	Total				60,606		12,121		48,485

S-11 Spillway : Type-Iw (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	15.0	74	1,117	14.9	223	59.6	893
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	14.3	2,709	38,739	541.8	7,748	2,167.2	30,991
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	143.0	44	6,344	8.9	1,269	35.5	5,075
7. Shuttering	3 uses	m2	57.2	210	12,010	42.0	2,402	168.0	9,608
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	2.5	1,520	3,800	304.0	760	1,216.0	3,040
	sub-total				62,010		12,402		49,608
	Miscel Work (30%)				18,603		3,721		14,882
	Total				80,613		16,123		64,491

S-12 Spiltway : Type-Ilu (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	7.5	74	558	14.9	112	59.6	447
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	7.2	2,709	19,369	541.8	3,874	2,167.2	15,496
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	71.5	44	3,172	8.9	634	35.5	2,538
7. Shuttering	3 uses	m2	28.6	210	6,005	42.0	1,201	168.0	4,804
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	1.3	1,520	1,900	304.0	380	1,216.0	1,520
	sub-total				31,005		6,201		24,804
	Miscel Work (30%)				9,302		1,860		7,441
	Total				40,307		8,061		32,245

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S-13 Over Bridge : Type-Io (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	97.2	74	7,237	14.9	1,447	59.6	5,789
2. Earthfilling		m3	90.7	60	5,466	12.1	1,093	48.2	4,373
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	28.4	2,709	76,909	541.8	15,382	2,167.2	61,527
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	567.8	44	25,191	8.9	5,038	35.5	20,153
7. Shuttering	3 uses	m2	113.6	210	23,844	42.0	4,769	168.0	19,075
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Handrail		m	13.8	1,472	20,314	294.4	4,063	1,177.6	16,251
10. RCC Pipe laying		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
sub-total					158,960		31,792		127,168
Miscel Work (30%)					47,688		9,538		38,150
Total					206,648		41,330		165,318

S-14 Over Bridge : Type-Ilo (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	44.0	74	3,276	14.9	655	59.6	2,621
2. Earthfilling		m3	34.9	60	2,102	12.1	420	48.2	1,682
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	14.8	2,709	39,958	541.8	7,992	2,167.2	31,966
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	295.0	44	13,088	8.9	2,618	35.5	10,470
7. Shuttering	3 uses	m2	59.0	210	12,388	42.0	2,478	168.0	9,910
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Handrail		m	7.8	1,472	11,482	294.4	2,296	1,177.6	9,185
10. RCC Pipe laying		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
sub-total					82,294		16,459		65,835
Miscel Work (30%)					24,688		4,938		19,751
Total					106,982		21,396		85,586

S-15 Parshall Flume : Type-Ip (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	22.5	74	1,675	14.9	335	59.6	1,340
2. Earthfilling		m3	10.5	60	633	12.1	127	48.2	506
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	3.0	2,709	7,992	541.8	1,598	2,167.2	6,393
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	29.5	44	1,309	8.9	262	35.5	1,047
7. Shuttering	3 uses	m2	11.8	210	2,478	42.0	496	168.0	1,982
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
sub-total					14,086		2,817		11,269
Miscel Work (30%)					4,226		845		3,381
Total					18,312		3,662		14,649

S-16 Parshall Flume : Type-Ilp (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	10.0	74	745	14.9	149	59.6	596
2. Earthfilling		m3	6.0	60	362	12.1	72	48.2	289
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	2.1	2,709	5,689	541.8	1,138	2,167.2	4,551
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	21.0	44	932	8.9	186	35.5	745
7. Shuttering	3 uses	m2	8.2	210	1,722	42.0	344	168.0	1,377
8. Gate for turnout	D=18"	nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
sub-total					9,448		1,890		7,559
Miscel Work (30%)					2,835		567		2,268
Total					12,283		2,457		9,826

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S-17 Aqueduct : Type-Ia (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	75.7	74	5,635	14.9	1,127	59.6	4,508
2. Earthfilling		m3	57.7	60	3,478	12.1	696	48.2	2,783
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	271.7	2,709	736,038	541.8	147,208	2,167.2	588,831
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	21,736.0	44	964,338	8.9	192,868	35.5	771,471
7. Shuttering	3 uses	m2	1,086.8	210	228,193	42.0	45,639	168.0	182,555
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				1,937,683		387,537		1,550,147
	Miscel Work (50%)				968,842		193,768		775,073
	Total				2,906,525		581,305		2,325,220

S-18 Aqueduct : Type-Ifa (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	18.5	74	1,379	14.9	276	59.6	1,103
2. Earthfilling		m3	16.0	60	964	12.1	193	48.2	771
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	2.8	2,709	7,694	541.8	1,539	2,167.2	6,155
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement		kg	28.4	44	1,260	8.9	252	35.5	1,008
7. Shuttering	3 uses	m2	11.4	210	2,385	42.0	477	168.0	1,908
8. Gate for turnout		nos	0.0	11,195	0	2,239.0	0	8,956.2	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=12"	m	8.0	710	5,677	141.9	1,135	567.7	4,542
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				19,359		3,872		15,487
	Miscel Work (30%)				5,808		1,162		4,646
	Total				25,167		5,033		20,134

S-19 SWE Structure for Benthara (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	190.0	74	14,147	14.9	2,829	59.6	11,318
2. Earthfilling		m3		60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2		17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	30.0	2,709	81,270	541.8	16,254	2,167.2	65,016
5. Mass concrete (1:4:8)		m3		2,115	0	423.0	0	1,691.8	0
6. Reinforcement	50kg/m3	kg	1,500.0	44	66,549	8.9	13,310	35.5	53,239
7. Shuttering	3 uses	m2	120.0	210	25,196	42.0	5,039	168.0	20,157
8. Flap Gate (3 gates)		nos	3.0	900,000	2,700,000	180,000.0	540,000	720,000.0	2,160,000
9. Wooden gate for regulator		nos		700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m		1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3		1,520	0	304.0	0	1,216.0	0
	sub-total				2,887,162		577,432		2,309,730
	Miscel Work (30%)				866,149		173,230		692,919
	Total				3,753,311		750,662		3,002,649

S-20 Resectioning : Type a (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	1.5	74	112	14.9	22	59.6	89
2. Earthfilling		m3		60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
	sub-total				129		26		103
	Miscel Work (20%)				26		5		21
	Total				155		31		124

S-21 Resectioning : Type b (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	4.1	74	308	14.9	62	59.6	246
2. Earthfilling		m3		60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
	sub-total				325		65		260
	Miscel Work (20%)				65		13		52
	Total				390		78		312

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S-22 Resectioning : Type c (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	5.8	74	428	14.9	86	59.6	343
2. Earthfilling		m3		60	0	12.1	0	48.2	0
3. Slope protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
		sub-total			445		89		356
Miscel Work (20%)					89		18		71
Total					534		107		427

S-23 Resectioning : Type d (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	1.4	74	107	14.9	21	59.6	86
2. Earthfilling		m3	1.4	60	87	12.1	17	48.2	69
3. Slope protection	Turffing	m2	2.0	17	34	3.4	7	13.7	27
		sub-total			228		46		183
Miscel Work (20%)					46		9		37
Total					274		55		219

S-24 Resectioning : Type e (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.7	74	51	14.9	10	59.6	41
2. Earthfilling		m3		60	0	12.1	0	48.2	0
3. Slope protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
		sub-total			68		14		54
Miscel Work (20%)					14		3		11
Total					81		16		65

S-25 Bund Filling : type a (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3		74	0	14.9	0	59.6	0
2. Earthfilling		m3	52.5	60	3,163	12.1	633	48.2	2,531
3. Slope protection	Turffing	m2	8.0	17	137	3.4	27	13.7	109
4. Road wearing	Gravel	m3	0.9	151	136	30.3	27	121.1	109
		sub-total			3,436		687		2,749
Miscel Work (20%)					687		137		550
Total					4,124		825		3,299

S-26 Bund Filling : type b (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3		74	0	14.9	0	59.6	0
2. Earthfilling		m3	7.5	60	452	12.1	90	48.2	362
3. Slope protection	Turffing	m2	3.0	17	51	3.4	10	13.7	41
4. Road wearing	Gravel	m3	0.9	151	136	30.3	27	121.1	109
		sub-total			639		128		512
Miscel Work (20%)					128		26		102
Total					767		153		614

S-27 Construction of Anicut : for Polwate (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	909.5	74	67,718	15	13,544	60	54,175
2. Earthfilling		m3	103.0	60	6,204	12	1,241	48	4,963
3. Slope protection	Turffing	m2	0.0	17	0	3	0	14	0
4. Reinforced concrete (1:2:4)		m3	172.5	2,709	467,359	542	93,472	2,167	373,887
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423	0	1,692	0
6. Reinforcement	50kg/m3	kg	8,628.0	44	382,789	9	76,558	35	306,231
7. Gate Facilities	nos	5.0	280,000	1,400,000	56,000	280,000	224,000	1,120,000	
8. Shuttering	3 uses	m2	690.1	210	144,895	42	28,979	168	115,916
9. Rubble Masonry		m3	9.2	1,520	13,923	304	2,785	1,216	11,138
		sub-total			2,482,888		496,578		1,986,310
Miscel Work (30%)					744,866		148,973		595,893
Total					3,227,754		645,551		2,582,203

App.5.4-2 Cost Breakdown of Canal Structures (7/8)

S-28 Drainage Canal Dredging/Resectloning : Type f (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	4.0	74	295	14.9	59	59.6	236
2. Earthfilling		m3	4.0	60	241	12.1	48	48.2	193
3. Slop protection	Turffing	m2	2.0	17	34	3.4	7	13.7	27
		sub-total			570		114		456
Miscel Work (20%)					114		23		91
Total					684		137		547

S-29 Drainage Canal Dredging/Resectloning : Type g (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	0.8	74	63	14.9	13	59.6	50
2. Earthfilling		m3	0.8	60	48	12.1	10	48.2	39
3. Slop protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
		sub-total			128		26		102
Miscel Work (20%)					26		5		20
Total					153		31		123

S-30 Culvert with Gates : Type-II (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	148.6	74	11,064	14.9	2,213	59.6	8,852
2. Earthfilling		m3	50.7	60	3,055	12.1	611	48.2	2,444
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	26.3	2,709	71,247	541.8	14,249	2,167.2	56,998
5. Mass concrete (1:4:8)		m3	40.3	2,115	85,225	423.0	17,045	1,691.8	68,180
6. Reinforcement		kg	263.0	44	11,668	8.9	2,334	35.5	9,335
7. Shuttering	3 uses	m2	256.4	210	53,836	42.0	10,767	168.0	43,069
8. Gate for turnout		nos	0.0	0	0		0		0
9. Wooden gate for reg 4'x4'		nos	2.0	510	1,020	102.0	204	408.0	816
10. RCC Pipe laying		nos	0.0	0	0		0		0
11. Rubble Masonry		m3	12.8	1,520	19,456	304.0	3,891	1,216.0	15,564
		sub-total			256,571		51,314		205,257
Miscel Work (30%)					76,971		15,394		61,577
Total					333,543		66,709		266,834

S-29 Drainage Canal Excavation/Enlargement : Type h (per meter)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	2.0	74	149	14.9	30	59.6	119
2. Earthfilling		m3	2.0	60	121	12.1	24	48.2	96
3. Slop protection	Turffing	m2	1.0	17	17	3.4	3	13.7	14
		sub-total			287		57		229
Miscel Work (20%)					57		11		46
Total					344		69		275

S-30 Protection Works (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	2.0	74	149	14.9	30	59.6	119
2. Earthfilling		m3	2.0	60	121	12.1	24	48.2	96
3. Slop protection	Turffing	m2	2.0	17	34	3.4	7	13.7	27
4. Reinforced concrete (1:2:4)		m3	0.0	2,709	0	541.8	0	2,167.2	0
5. Mass concrete (1:4:8)		m3	9.2	2,115	19,350	423.0	3,870	1,691.8	15,480
6. Reinforcement	50kg/m3	kg	0.0	44	0	8.9	0	35.5	0
7. Shuttering	3 uses	m2	36.6	210	7,685	42.0	1,537	168.0	6,148
8. Flap Gate (3 gates)		nos		900,000	0	180,000.0	0	720,000.0	0
9. Wooden gate for regulator		nos		700	0	140.0	0	560.0	0
10. RCC Pipe laying	D=18"	m		1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3		1,520	0	304.0	0	1,216.0	0
		sub-total			27,339		5,468		21,871
Miscel Work (30%)					8,202		1,640		6,561
Total					35,540		7,108		28,432

App.5.4-2 Cost Breakdown of Canal Structures (8/8)

Canal Structures

S-31 Groynes (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	15,000.0	74	1,116,873	14.9	223,375	59.6	893,498
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	0.0	2,709	0	541.8	0	2,167.2	0
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement 50kg/m3		kg	0.0	44	0	8.9	0	35.5	0
7. Shuttering 3 uses		m2	0.0	210	0	42.0	0	168.0	0
8. Flap Gate (3 gates)		nos	0.0	900,000	0	180,000.0	0	720,000.0	0
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying D=18"		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	2,400.0	1,520	3,647,924	304.0	729,585	1,216.0	2,918,339
	sub-total				4,764,796		952,959		3,811,837
	Miscel Work (30%)				1,429,439		285,838		1,143,551
	Total				6,194,235		1,238,847		4,955,388

S-32 Kariija SWE (W), 10 gates (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	15,000.0	74	1,116,873	14.9	223,375	59.6	893,498
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	100.0	2,709	270,901	541.8	54,180	2,167.2	216,721
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement 50kg/m3		kg	5,000.0	44	221,830	8.9	44,366	35.5	177,464
7. Shuttering 3 uses		m2	400.0	210	83,987	42.0	16,797	168.0	67,190
8. Flap Gate (3 gates)		nos	10.0	900,000	9,000,000	180,000.0	1,800,000	720,000.0	7,200,000
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying D=18"		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				10,693,591		2,138,718		8,554,873
	Miscel Work (30%)				3,203,077		641,615		2,566,462
	Total				13,901,668		2,780,334		11,121,334

S-33 Kariija SWE (S), 7 gates (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	15,000.0	74	1,116,873	14.9	223,375	59.6	893,498
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	70.0	2,709	189,631	541.8	37,926	2,167.2	151,705
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement 50kg/m3		kg	3,500.0	44	155,281	8.9	31,056	35.5	124,225
7. Shuttering 3 uses		m2	280.0	210	58,791	42.0	11,758	168.0	47,033
8. Flap Gate (3 gates)		nos	7.0	900,000	6,300,000	180,000.0	1,260,000	720,000.0	5,040,000
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying D=18"		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				7,820,575		1,564,115		6,256,460
	Miscel Work (30%)				2,346,173		469,235		1,876,938
	Total				10,166,748		2,033,350		8,133,398

S-34 Weejetota, 4 gates (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	15,000.0	74	1,116,873	14.9	223,375	59.6	893,498
2. Earthfilling		m3	0.0	60	0	12.1	0	48.2	0
3. Slop protection	Turffing	m2	0.0	17	0	3.4	0	13.7	0
4. Reinforced concrete (1:2:4)		m3	40.0	2,709	108,360	541.8	21,672	2,167.2	86,688
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423.0	0	1,691.8	0
6. Reinforcement 50kg/m3		kg	2,000.0	44	88,732	8.9	17,746	35.5	70,986
7. Shuttering 3 uses		m2	160.0	210	33,595	42.0	6,719	168.0	26,876
8. Flap Gate (3 gates)		nos	4.0	900,000	3,600,000	180,000.0	720,000	720,000.0	2,880,000
9. Wooden gate for regulator		nos	0.0	700	0	140.0	0	560.0	0
10. RCC Pipe laying D=18"		m	0.0	1,178	0	235.5	0	942.1	0
11. Rubble Masonry		m3	0.0	1,520	0	304.0	0	1,216.0	0
	sub-total				4,947,560		989,512		3,958,048
	Miscel Work (30%)				1,484,268		296,854		1,187,414
	Total				6,431,828		1,286,366		5,145,462

App.5.4-3 Cost Breakdown of Anicut Structures

Cost Estimation for Anicut Scheme

A-1 Main Structure : Type-Ias (per number)

Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	909.5	74	67,718	15	13,544	60	54,175
2. Earthfilling		m3	103.0	60	6,204	12	1,241	48	4,963
3. Slop protection	Turffing	m2	0.0	17	0	3	0	14	0
4. Reinforced concrete (1:2:4)		m3	172.5	2,709	467,359	542	93,472	2,167	373,887
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423	0	1,692	0
6. Reinforcement	50kg/m3	kg	8,628.0	44	382,789	9	76,558	35	306,231
7. Shuttering	3 uses	m2	690.1	210	144,895	42	28,979	168	115,916
8. Rubble Masonry		m3	3.2	1,520	13,923	304	2,785	1,216	11,138
	sub-total				1,082,888		216,578		866,310
Miscel Work (30%)					324,866		64,973		259,893
Total					1,407,754		281,551		1,126,203

A-2 Revetment : (per number)

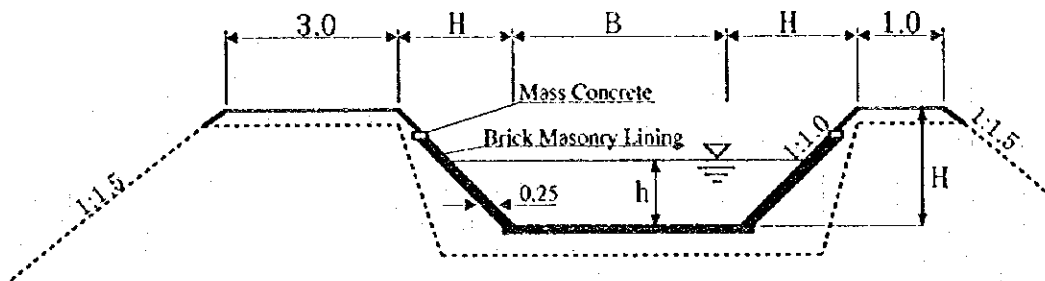
Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	73.4	74	5,466	15	1,093	60	4,373
2. Earthfilling		m3	0.0	60	0	12	0	48	0
3. Slop protection	Turffing	m2	0.0	17	0	3	0	14	0
4. Reinforced concrete (1:2:4)		m3	7.6	2,709	20,480	542	4,096	2,167	16,384
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423	0	1,692	0
6. Reinforcement		kg	378.0	44	16,770	9	3,354	35	13,416
7. Shuttering	3 uses	m2	30.2	210	6,349	42	1,270	168	5,080
8. Rubble Masonry		m3	73.4	1,520	111,581	304	22,316	1,216	89,265
	sub-total				160,647		32,129		128,517
Miscel Work (30%)					48,194		9,639		38,555
Total					208,841		41,768		167,073

A-3 Spillway : (per number)

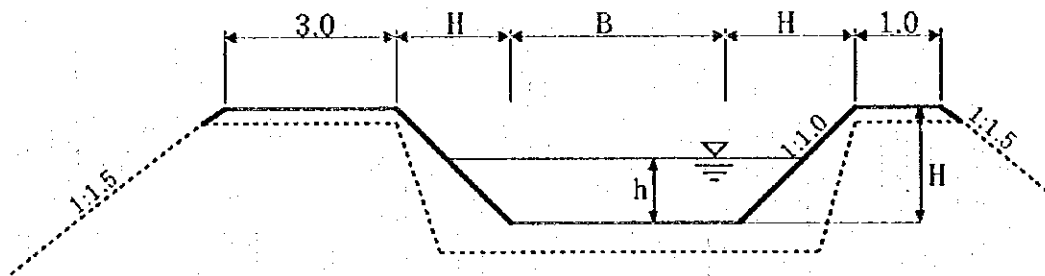
Work Items	Unit	Quantity	Total Cost (Rs)		Foreign Currency (Rs)		Local Currency (Rs)		
			Unit price	Amount	Unit price	Amount	Unit price	Amount	
1. Excavation	Common	m3	612.0	74	45,571	15	9,114	60	36,457
2. Earthfilling		m3	103.0	60	6,204	12	1,241	48	4,963
3. Slop protection	Turffing	m2	0.0	17	0	3	0	14	0
4. Reinforced concrete (1:2:4)		m3	82.7	2,709	223,954	542	44,791	2,167	179,163
5. Mass concrete (1:4:8)		m3	0.0	2,115	0	423	0	1,692	0
6. Reinforcement		kg	4,133.5	44	183,387	9	36,677	35	146,709
7. Shuttering	3 uses	m2	330.7	210	69,432	42	13,886	168	55,546
8. Rubble Masonry		m3	9.2	1,520	13,923	304	2,785	1,216	11,138
	sub-total				542,471		108,494		433,977
Miscel Work (30%)					162,741		32,548		130,193
Total					705,212		141,042		564,170

App.5.5-1 Typical Cross Section of Irrigation Canals

Brick Masonry Lining



Earth Lining



Dimensions

Lining	Type	B (m)	H (m)	h (m)	Discharge (m ³ /s)
Brick Masonry	BI	5.0	1.9	0.95	4.61
	BII	4.0	1.9	0.95	3.72
	BIII	3.0	1.8	0.90	2.59
	BIV	2.0	1.3	0.65	1.01
	BV	1.0	1.5	0.75	0.74
	BVI	0.8	1.2	0.60	0.41
	BVII	0.6	0.7	0.35	0.12
Earth	EI	5.0	2.2	1.11	4.73
	EII	3.0	2.0	1.00	2.49
	EIII	1.5	1.4	0.70	0.72
	EIV	0.8	0.7	0.35	0.12