

Package #: CH0009

Package Title: Construction of North and South Dams

Bid Normalisation

Bidder: 02

	Manhours	Labour	Materials	Equipment	Other	OH&P	Balance	Total	
Base Proposal As Bid	885,881	102,173,408	113,993,325	81,294,932	18,335,191	-	-	315,796,855	315,796,855 check

Bidder Commercial Exceptions

Craft Travel					7,691,689			7,691,689
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Bidder Commercial Exceptions

		Comment
1	Labour Risk	-
2	1 Year Warranty	600,000
3	100 year storm to 20 year storm	200,000
4	Negotiate Unit Prices & Schedule for Quantity Increases	769,133
5	Claim(s) acknowledgement at Substantial Completion	-
6	Liquidated Damages	-
7	Holdback release	-

Bidder Technical Exceptions

1	Zone Materials payment by Tonne	-	Delta All Bidders
2	Payment for Major Components at LNTP	900,000	Finance Costs
3	Removal of upstream Crane Pads	-	Delta all Bidders
4	Zones 2 & 3 crushed from Area A	-	Risk due to limited availability of Rock in stockpile.
5	No Royalties	-	Company Provided Item
6	Waste to Area A	-	Waste from Rock Removal & Demolition of existing CDs only
7	No underwater excavation pre-splitting	-	NFA Delta all Bidders
8	RCC levelling concrete	-	No net Fincial Impact
9	GERCC on upstream face. Bid Item 136.1	-	Method revision results in delta impact.
10	Precast Concrete as Lump Sum	-	No net Fincial Impact
11	No HST on fuel	-	Expected & required (ITC).
12	Box culvert on North Dam eliminated	-	NFA Delta all Bidders
13	Schedule Time for Jet Grouting	2,450,000	Based on 5 weeks extention.
14	Fuel Supply - Exhibit 12 article 3.1.9	980,000	14 days Risk at LD Rate
15	Interrupted Company Power - fuel for generators	-	Company Provided Item
16	No allowance for Company Offices - Exhibit 7 article 4.0e	72,000	Add for fully found office
17	Intake Cofferdam as ramp for Temp. bridge	-	No Issue
18	All QA/QC testing by Company	-	Delta all Bidders
19	Revise uplift % on significant changes in scope.	841,070	See also Bidder Commercial 4
20	Engineer approval turn-around 10 day in lieu of 21 day.	156,000	Extra Engineer for 6 months.
21	Tailrace Channel during plug exc. In dry - no dewatering.	-	Not required
22	No source B for flyash & cement identified.	-	No Financial Adjustment
23	4 weather days/per month scheduled.	-	In Labour Risk

Company Identified Technical Exceptions

1	Laydown Areas B, A, G & F assumed available for Contractor.	-	Delta All Bidders
2	Dewatering Capacity not specified.	-	Delta All Bidders
3	Removal of crane pad on North Dam Downstream excluded	-	Delta All Bidders
4	Electronic Detonators for u/w blasting not mentioned.	-	Delta All Bidders
5	Bubble curtain not mentioned.	-	Delta All Bidders
6	South Dam start 2015 - possible conflict to C1	-	Not an issue
7	Use of Transmission ROW as crushing equipment set-up	-	Delta All Bidders
8	Sedimentation Pond for River Work after headpond at 25m	-	Delta All Bidders
9	RCC - Sloped Installation	-	-

Normalised Price

348,993,734

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0009 - CONSTRUCTION OF NORTH AND SOUTH DAMS				SCHEDULE OF PRICE BREAKDOWN										APPENDIX A2.1 Rev. B2					
ISSUED FOR: BID DATE: 14 - Oct - 2014				BIDDER'S NAME: Bidder 2															
PRICE ITEM	WBS CODE	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATE D QUANTITY	MAN HOURS (AT SITE)	Extended M/H	MANPOWER COST/UNIT (\$ CAN)	Extended Labour Cost	MATERIALS COST/UNIT (\$ CAN)	Extended Material Cost	EQUIPMENT COST/UNIT (\$ CAN)	Extended Equipment Cost	S/C Cost/Unit F	Extended S/C	PROFIT COST/UNIT (\$ CAN)	Extended OH&P	UNIT PRICE (\$ CAN) F=(B+C+D+E+F)	Check Total	TOTAL PRICE (\$ CAN) G= A x F
No	REFERENCE Exhibit 2 - ATT 1	CODE SUBCODE																	
				INDIRECT COSTS															
1	2.1	0000.01	Mobilization	LS	1	83,638	8,100,000	8,100,000	31,390,798	31,390,798	28,250,000	28,250,000	5,500,000	5,500,000			73,240,798	73,240,798	73,240,798
2	2.2	0000.02	Site Installation	LS	1	151,227	13,000,000	13,000,000	5,000,000	5,000,000	26,500,000	26,500,000	1,500,000	1,500,000			46,000,000	46,000,000	46,000,000
3	2.3	0000.03	Management, Staff, employees and Consultants	LS	1	234,434	41,500,000	41,500,000	2,500,000	2,500,000	1,000,000	1,000,000	150,000	150,000			45,150,000	45,150,000	45,150,000
4	2.4	0000.04	Health and Safety, Environmental and Quality Requirements	LS	1	14,143	2,400,000	2,400,000	550,000	550,000	-	-	115,000	115,000			3,065,000	3,065,000	3,065,000
5	2.5	0000.05	Credit, Guarantee and Insurance	LS	1	-	-	-	991,000	991,000	-	-	-	-			991,000	991,000	991,000
6	2.6	0000.06	Warranty, per Article 17 of the Agreement	LS	1	-	100,000	100,000	100,000	100,000	100,000	100,000	-	-			300,000	300,000	300,000
7	2.7	0000.07	Demobilization	LS	1	1,472	135,124	135,124	430,000	430,000	350,000	350,000	-	-			915,124	915,124	915,124
				SUB-TOTAL INDIRECT COSTS															
				484,914 65,235,124 40,961,798 56,200,000 7,265,000 - - 169,661,922 169,661,922															
				GENERAL															
8	3.1.1	1110.01	Dewatering of Structure Areas	LS	1	3,174	290,000	290,000	400,000	400,000	1,500,000	1,500,000	-	-			2,190,000	2,190,000	2,190,000
				EXCAVATION OF EXISTING COFFERDAMS															
9	3.2.1	1111.01	Excavation of Existing Embankment cofferdams 1, 2 and 3, and Existing Ramps	m³	177,000	0.02	3,343	1.72	304,440	-	-	9.04	1,600,080	-	-	-	10.76	1,904,520	1,904,520
10	3.2.2	1111.02	Excavation of Downstream section of RCC riverside cofferdam	m³	20,000	0.05	933	4.30	86,000	4.89	97,800	12.50	250,000	-	-	-	21.69	433,800	433,800
				PERMANENT ROADS AND PARKING AREA															
11	3.3.1	1112.01	Overburden Excavation	m³	8,000	0.03	206	2.38	19,040	-	-	6.50	52,000	-	-	-	8.88	71,040	71,040
12	3.3.2	1112.02	Approved Compactable Material	m³	44,000	0.02	877	1.84	80,960	-	-	1.36	59,840	-	-	-	3.20	140,800	140,800
13	3.3.3	1112.03	Granular "B" Material	m³	5,800	0.07	418	6.72	38,976	44.26	256,708	6.03	34,974	-	-	-	57.01	330,658	330,658
14	3.3.4	1112.04	Granular "C" Material	m³	4,000	0.09	347	8.00	32,000	44.26	177,040	6.00	24,000	-	-	-	58.26	233,040	233,040
15	3.3.5	1112.05	Maintenance Grade 3 material	m²	4,500	0.07	326	6.67	30,015	44.26	199,170	5.56	25,020	-	-	-	56.49	254,205	254,205
16	3.3.6	1112.06	CSP culvert, dia. 900 mm	m	48	2.29	110	229.17	11,000	-	-	312.50	15,000	-	-	-	541.67	26,000	26,000
17	3.3.7	1112.07	Guide Rails	m	400	1.15	458	105.80	42,000	50.04	20,016	26.25	10,500	-	-	-	181.24	72,516	72,516
18	3.3.8	1112.08	Gate Type 1	unit	2	27.50	55	5,000.00	10,000	850.00	1,700	1,700.00	3,400	-	-	-	7,550.00	15,100	15,100
				ACCESS ROAD TO LAYDOWN AREA C1															
19	3.4.1	1113.01	Approved Compactable Material	m³	26,000	0.02	426	1.54	40,040	-	-	1.54	40,040	-	-	-	3.08	80,080	80,080
20	3.4.2	1113.02	Granular "C" Material	m³	7,500	0.03	248	3.07	23,025	44.26	331,950	4.67	35,025	-	-	-	52.00	390,000	390,000
				DITCHES															
21	3.5.1	1114.01	Overburden Excavation	m³	2,000	0.22	442	20.50	41,000	-	-	20.00	40,000	-	-	-	40.50	81,000	81,000
22	3.5.2	1114.02	Non-woven Geotextile, min 300 g/m²	m²	2,500	0.03	74	2.80	7,000	3.06	7,650	0.88	2,200	-	-	-	6.74	16,850	16,850
23	3.5.3	1114.03	Rockfill Protection, 100 - 250 mm	m³	1,000	0.11	109	11.00	11,000	42.72	42,720	16.00	16,000	-	-	-	69.72	69,720	69,720
				SLOPE PROTECTION															
24	3.6.1	1115.01	Rockfill Protection, Zone 3E Material	m³	2,500	0.12	307	11.20	28,000	42.72	106,800	32.00	80,000	-	-	-	85.92	214,800	214,800
25	3.6.2	1115.02	Non-woven Geotextile, min 530 g/m²	m²	4,500	0.04	166	3.56	16,020	3.91	17,595	0.78	3,510	-	-	-	8.25	37,125	37,125
				CHAIN LINK FENCES AND GATES															
26	3.7.1	1116.01	Chain Link Fence and Gates	m	720	2.71	1,954	256.94	184,997	-	-	48.61	34,999	-	-	-	305.55	219,996	219,996
				TEMPORARY UPSTREAM BRIDGE OVER SPILLWAY APPROACH CHANNEL															
27	3.8.1	1150.01	Engineering of Temporary Upstream Bridge	LS	1	-	-	-	-	-	-	-	50,000.00	50,000	-	-	50,000.00	50,000	50,000
28	3.8.2	1150.02	Supply of Temporary Upstream Bridge	LS	1	-	-	-	7,650,000	7,650,000	-	-	-	-	-	-	7,650,000.00	7,650,000	7,650,000
29	3.8.3	1150.03	Installation, removal and handover of Temporary Upstream Bridge	LS	1	#####	14,950	1,425,000	1,425,000	750,000	750,000	550,000	550,000	-	-	-	2,725,000.00	2,725,000	2,725,000
				SUB-TOTAL GENERAL															
				28,923 2,720,513 10,059,149 4,376,588 50,000 - - 17,206,250 17,206,250															
				DAMS AND COFFERDAMS - GENERAL															
				UPSTREAM COFFERDAM															
				CIVIL WORK															
				Excavation															
30	4.1.1	2341.01	Overburden excavation	m³	2,500	0.03	64	2.40	6,000	-	-	2.20	5,500	-	-	-	4.60	11,500	11,500
				Foundation Preparation in dry condition															
31	4.1.2	2341.02	Foundation Cleaning (water/air jets and Vacuum trucks)	m²	1,200	0.26	313	24.17	29,004	-	-	13.33	15,996	-	-	-	37.50	45,000	45,000
32	4.1.3	2341.03	Rock Excavation including dental excavation and Scaling	m³	500	0.48	238	44.00	22,000	22.22	11,110	96.00	48,000	-	-	-	162.22	81,110	81,110
33	4.1.4	2341.04	Dental Concrete	m³	800	2.11	1,685	195.00	156,000	531.25	425,000	-	-	49.82	39,856	-	776.07	620,856	620,856
34	4.1.5	2341.05	Slush Grout	m³	1,200	0.39	462	35.83	42,996	12.50	15,000	2.50	3,000	-	-	-	50.83	60,996	60,996
35	4.1.6	2341.06	Dry Pack	m³	6	217.00	1,302	3,500.00	21,000	1,500.00	9,000	500.00	3,000	-	-	-	5,500.00	33,000	33,000
				Embankment Materials															

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PRICE ITEM	WBS CODE	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATE QUANTITY	MAN HOURS (AT SITE)	Extended M/H	MANPOWER COST/UNIT (\$ CAN)	Extended Labour Cost	MATERIALS COST/UNIT (\$ CAN)	Extended Material Cost	EQUIPMENT COST/UNIT (\$ CAN)	Extended Equipment Cost	S/C Cost/Unit F	Extended S/C	PROFIT COST/UNIT (\$ CAN)	Extended OH&P	UNIT PRICE (\$ CAN) F=(B+C+D+E+F)	Check Total	TOTAL PRICE (\$ CAN) G= A x F	
No	REFERENCE EXHIBIT 2 - ATT 1	CODE	SUBCODE																	
36	4.1.7	2341.07		Compacted Till - Zones 1 and 1C Materials	m ³	19,000	0.15	2,877	13.74	261,060	-	27.37	520,030	-	-	-	41.11	781,090	781,090	
37	4.1.8	2341.08		Dumped Till - Zone 1A Material	m ³	134,000	0.09	11,788	7.99	1,070,660	-	20.81	2,788,540	-	-	-	28.80	3,859,200	3,859,200	
38	4.1.9	2341.09		Compacted Granular - Zone 2A Material	m ³	20,700	0.08	1,607	7.25	150,075	45.89	949,923	16.91	350,037	-	-	70.05	1,450,035	1,450,035	
39	4.1.10	2341.10		Compacted Granular - Zone 2C Material	m ³	8,700	0.08	711	7.70	66,990	44.26	385,062	18.97	165,039	-	-	70.93	617,091	617,091	
40	4.1.11	2341.11		Dumped Granular - Zone 2E Material	m ³	26,300	0.04	1,037	3.80	99,940	44.26	1,164,038	9.32	245,116	-	-	57.38	1,509,094	1,509,094	
41	4.1.12	2341.12		Dumped Rockfill - Zone 3 Material	m ³	143,000	0.02	2,850	1.85	264,550	-	-	10.14	1,450,020	-	-	11.99	1,714,570	1,714,570	
42	4.1.13	2341.13		Dumped Large Blocks (300-1000 mm) - Zone 3 Class 1	m ²	37,000	0.02	738	1.84	68,080	-	-	9.92	367,040	-	-	11.76	435,120	435,120	
43	4.1.14	2341.14		Dumped Large Blocks (≥1000 mm) - Zone 3 Class 2	m ³	65,000	0.05	3,189	4.51	293,150	-	-	25.49	1,656,850	-	-	30.00	1,950,000	1,950,000	
44	4.1.15	2341.15		Dumped Large Blocks (≥1300 mm) - Zone 3 Class 3	m ³	15,000	0.05	675	4.13	61,950	-	-	25.93	388,950	-	-	30.06	450,900	450,900	
45	4.1.16	2341.16		Compacted Crushed Stone - Zone 3A Material	m ³	10,950	0.03	297	7.76	84,972	44.70	489,465	12.79	140,051	-	-	65.25	714,488	714,488	
46	4.1.17	2341.17		Compacted Rockfill - Zone 3C Material	m ³	33,740	0.10	3,397	9.34	315,132	-	-	37.05	1,250,067	-	-	46.39	1,565,199	1,565,199	
47	4.1.18	2341.18		Compacted Rockfill - Zone 3D Material	m ³	33,900	0.04	1,428	3.86	130,854	-	-	12.54	425,106	-	-	16.40	555,960	555,960	
48	4.1.19	2341.19		Dumped Crushed Stone - Zone 3F Material	m ³	21,000	0.04	828	3.67	77,070	44.70	938,700	7.62	160,020	-	-	55.99	1,175,790	1,175,790	
				Investigation for Jet Grouted Cut-off Wall and Bedrock Grouting																
49	4.1.20	2341.20		Percussion Drill Holes in embankments, river sediments and bedrock	m	1,000	0.23	230	22.40	22,400	-	-	-	104.00	104,000	-	126.40	126,400	126,400	
50	4.1.21	2341.21		Verification Core Drilling in jet grouting cut-off wall and bedrock	m	200	0.66	132	61.68	12,336	-	-	-	407.00	81,400	-	468.68	93,736	93,736	
51	4.1.22	2341.22		Core Diamond Drill Rig in Standby Jet Grouting cut off wall	hour	140		-	-	-	-	132	18,480	-	-	-	132.00	18,480	18,480	
52	4.1.23	2341.23		Mobilization and demobilization	LS	1	2,155.00	2,155	239,568	239,568	-	-	-	873,147.00	873,147	-	1,112,715.00	1,112,715	1,112,715	
53	4.1.24	2341.24		Drilling Holes for Jet Grouting in embankment, river sediments and bedrock	m	9,600	0.46	4,416	45.83	439,968	-	-	-	114.00	1,094,400	-	159.83	1,534,368	1,534,368	
54	4.1.25	2341.25		Jet Grouted Cut-off wall	m ²	2,800	1.56	4,376	147.46	412,888	46.05	128,940	7.86	22,008	852.00	2,385,600	-	1,053.37	2,949,436	2,949,436
				Bedrock Grouting beneath the Jet Grouted Cut-off Wall, if required																
55	4.1.26	2341.26		Drilling Holes for Grouting in embankment - jet grouting cut-off wall and bedrock, if required	m	1,300	0.05	60	3.96	5,148	-	-	-	19.00	24,700	-	22.96	29,848	29,848	
56	4.1.27	2341.27		Dry cement incorporated in the grout, if required	kg	11,000		-	-	-	-	-	-	1.00	11,000	-	1.00	11,000	11,000	
57	4.1.28	2341.28		Grouting - Successful connections, if required	unit	60	2.30	138	199.50	11,970	-	-	-	642.00	38,520	-	841.50	50,490	50,490	
				SUB-TOTAL UPSTREAM COFFERDAM				46,993		4,365,761		4,516,238		10,022,850		4,652,623		23,557,471	23,557,471	
	4.2	2340	2342	DOWNSTREAM COFFERDAM																
				CIVIL WORK																
				Excavation																
58	4.2.1	2342.01		Overburden excavation	m ³	500	0.07	37	7.00	3,500	-	-	14.40	7,200	-	-	21.40	10,700	10,700	
				Foundation Preparation																
59	4.2.2	2342.02		Foundation cleaning (water/air jets and Vacuum trucks)	m ²	1,250	0.26	326	24.00	30,000	-	-	13.20	16,500	-	-	37.20	46,500	46,500	
60	4.2.3	2342.03		Rock excavation including dental excavation and scaling	m ³	500	0.48	238	44.00	22,000	22.22	11,110	90.00	45,000	-	-	156.22	78,110	78,110	
61	4.2.4	2342.04		Dental Concrete	m ³	200	2.11	421	195.00	39,000	507.80	101,560	-	-	49.83	9,966	752.63	150,526	150,526	
62	4.2.5	2342.05		Slush Grout	m ²	1,250	0.38	481	35.20	44,000	11.25	14,063	2.40	3,000	-	-	48.85	61,063	61,063	
63	4.2.6	2342.06		Dry Pack	m ³	6	36.17	217	3,500.00	21,000	1,500.00	9,000	500.00	3,000	-	-	5,500.00	33,000	33,000	
				Embankment Materials																
64	4.2.7	2342.07		Compacted Till - Zones 1 and 1C	m ³	2,000	0.15	303	14.00	28,000	-	-	22.50	45,000	-	-	36.50	73,000	73,000	
65	4.2.8	2342.08		Compacted Granular - Zone 2C	m ³	2,500	0.08	212	8.00	20,000	44.26	110,650	14.00	35,000	-	-	66.26	165,650	165,650	
66	4.2.9	2342.09		Compacted Rockfill - Zone 3C	m ³	4,600	0.10	474	9.57	44,022	-	-	32.61	150,006	-	-	42.18	194,028	194,028	
67	4.2.10	2342.10		Compacted Rockfill - Zone 3D	m ³	2,000	0.04	84	4.00	8,000	-	-	13.00	26,000	-	-	17.00	34,000	34,000	
				SUB-TOTAL DOWNSTREAM COFFERDAM				2,793		259,522		246,383		330,706		9,966		846,577	846,577	
	4.3	2340	2343	INTAKE CHANNEL COFFERDAM																
				CIVIL WORK																
				Excavation																
68	4.3.1	2343.01		Overburden excavation	m ³	8,800	0.03	235	2.50	22,000	-	-	5.68	49,984	-	-	8.18	71,984	71,984	
				Foundation Preparation																
69	4.3.2	2343.02		Foundation cleaning (water/air jets and Vacuum trucks)	m ²	1,700	0.26	443	24.12	41,004	-	-	14.71	25,007	-	-	38.83	66,011	66,011	
70	4.3.3	2343.03		Rock excavation including dental excavation and scaling	m ³	700	0.48	333	44.29	31,003	22.22	15,554	85.71	59,997	-	-	152.22	106,554	106,554	

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ISSUED FOR: BID DATE: 14 - Oct - 2014				BIDDER'S NAME: Bidder Z																		
PRICE ITEM	WBS CODE	PRICE ITEM DESCRIPTION		UNIT OF MEASURE	ESTIMATE QUANTITY	MAN HOURS (AT SITE)	Extended M/H	MANPOWER COST/UNIT (\$ CAN)	Extended Labour Cost	MATERIALS COST/UNIT (\$ CAN)	Extended Material Cost	EQUIPMENT COST/UNIT (\$ CAN)	Extended Equipment Cost	S/C Cost/Unit F	Extended S/C	PROFIT COST/UNIT (\$ CAN)	Extended OH&P	UNIT PRICE (\$ CAN) F=(B+C+D+E+F)	Check Total	TOTAL PRICE (\$ CAN) G=A x F		
No	REFERENCE Exhibit 2 - ATT 1	CODE	SUBCODE																			
71	4.3.4	2343.04		Dental Concrete	m ³	250	2.10	526	196.00	49,000	507.69	126,923	-	-	49.83	12,458	-	753.52	188,380	188,380		
72	4.3.5	2343.05		Slush Grout	m ³	1,700	0.39	655	35.29	59,993	11.25	19,125	3.53	6,001	-	-	-	50.07	85,119	85,119		
73	4.3.6	2343.06		Dry Pack	m ³	9	36.11	325	3,444.44	31,000	1,333.33	12,000	333.33	3,000	-	-	-	5,111.10	46,000	46,000		
				Embankment Materials																		
74	4.3.7	2343.07		Compacted Till - Zones 1 and 1C	m ³	6,300	0.15	954	13.81	87,003	-	-	23.81	150,003	-	-	-	37.62	237,006	237,006		
75	4.3.8	2343.08		Compacted Granular - Zone 2C	m ³	4,900	0.08	411	7.96	39,004	44.26	216,874	13.27	65,023	-	-	-	65.49	320,901	320,901		
76	4.3.9	2343.09		Compacted Rockfill - Zone 3C	m ³	5,200	0.10	522	9.42	48,984	-	-	28.85	150,020	-	-	-	38.27	199,004	199,004		
77	4.3.10	2343.10		Compacted Rockfill - Zone 3D	m ³	1,400	0.04	59	3.93	5,502	-	-	14.29	20,006	-	-	-	18.22	25,508	25,508		
				SUB-TOTAL INTAKE CHANNEL COFFERDAM																		
											4,463		414,493		390,475		529,041		12,458		1,346,467	1,346,467
4.4				2330 SOUTH DAM																		
				CIVIL WORK																		
				Excavation																		
78	4.4.1	2330.01		Overburden excavation	m ³	94,000	0	2,514	2.44	229,360	-	-	5.53	519,820	-	-	-	7.97	749,180	749,180		
				Foundation Preparation																		
79	4.4.2	2330.02		Foundation cleaning (water/air jets and Vacuum trucks)	m ²	3,400	0.26	886	23.82	80,988	-	-	13.53	46,002	-	-	-	37.35	126,990	126,990		
80	4.4.3	2330.03		Rock excavation including dental excavation and scaling	m ³	2,000	0.48	953	44.00	88,000	22.22	44,440	67.50	135,000	-	-	-	133.72	267,440	267,440		
81	4.4.4	2330.04		Dental Concrete	m ³	1,200	2.11	2,527	195.00	234,000	507.69	609,228	-	-	49.83	59,796	-	752.52	903,024	903,024		
82	4.4.5	2330.05		Slush Grout	m ³	3,400	0.39	1,309	35.29	119,986	11.25	38,250	3.53	12,002	-	-	-	50.07	170,238	170,238		
83	4.4.6	2330.06		Dry Pack	m ³	20	36.10	722	3,350.00	67,000	1,000.00	20,000	200.00	4,000	-	-	-	4,550.00	91,000	91,000		
84	4.4.7	2330.07		Drilling Holes for Grouting	m	1,200	0.91	1,094	82.86	99,432	13.31	15,972	5.00	6,000	103.00	123,600	-	204.17	245,004	245,004		
85	4.4.8	2330.08		Dry cement incorporated in the grout	kg	42,000	0.01	386	1.15	48,300	-	-	-	3.33	139,860	-	-	4.48	188,160	188,160		
86	4.4.9	2330.09		Cored Drill Check Holes	m	30	1.47	44	124.80	3,744	-	-	-	233.33	7,000	-	-	358.13	10,744	10,744		
87	4.4.10	2330.10		Percussion Drilling Check holes	m	60	0.73	44	57.85	3,471	-	-	-	116.67	7,000	-	-	174.52	10,471	10,471		
88	4.4.11	2330.11		Grouting - Successful connections	unit	250	0.48	121	46.00	11,500	-	-	-	110.00	27,500	-	-	156.00	39,000	39,000		
89	4.4.12	2330.12		Water pressure test (Lugeon - 5 Stages)	hour	8	2.75	22	255.00	2,040	-	-	-	600.00	4,800	-	-	855.00	6,840	6,840		
90	4.4.13	2330.13		Water test - Successful connections	unit	18	1.22	22	113.33	2,040	-	-	-	266.67	4,800	-	-	380.00	6,840	6,840		
91	4.4.14	2330.14		Uplift gauges	m	20	2.20	44	187.25	3,745	-	-	-	600.00	12,000	-	-	787.25	15,745	15,745		
92	4.4.15	2330.15		Thermistors (measure rock temperature in grout holes)	unit	1	44.00	44	3,744.00	3,744	-	-	-	9,000.00	9,000	-	-	12,744.00	12,744	12,744		
				Embankment Materials																		
93	4.4.16	2330.16		Compacted Till - Zones 1 and 1C	m ³	26,000	0.14	3,678	12.81	333,060	-	-	22.12	575,120	-	-	-	34.93	908,180	908,180		
94	4.4.17	2330.17		Compacted Granular - Zone 2A	m ³	28,000	0.09	2,527	8.39	234,920	44.70	1,251,600	13.93	390,040	-	-	-	67.02	1,876,560	1,876,560		
95	4.4.18	2330.18		Compacted Crushed Stone - Zone 3A	m ³	12,000	0.09	1,083	8.42	101,040	44.70	536,400	14.17	170,040	-	-	-	67.29	807,480	807,480		
96	4.4.19	2330.19		Compacted Crushed Stone - Zone 3B	m ³	16,000	0.09	1,444	8.44	135,040	44.26	708,160	14.06	224,960	-	-	-	66.76	1,068,160	1,068,160		
97	4.4.20	2330.20		Compacted Rockfill - Zone 3C	m ³	21,000	0.09	1,977	8.71	182,910	-	-	33.33	699,930	-	-	-	42.04	882,840	882,840		
98	4.4.21	2330.21		Compacted Rockfill - Zone 3D	m ³	46,000	0.04	1,646	3.28	150,880	-	-	16.30	749,800	-	-	-	19.58	900,680	900,680		
99	4.4.22	2330.22		Riprap - Zone 4	m ³	6,000	0.10	626	9.67	58,020	42.72	256,320	17.50	105,000	-	-	-	69.89	419,340	419,340		
100	4.4.23	2330.23		Compacted Crushed Stone - Zone 5	m ³	310	0.22	69	20.97	6,501	44.24	13,714	19.35	5,999	-	-	-	84.56	26,214	26,214		
101	4.4.24	2330.24		Jersey Barrier	m	600	0.08	46	7.50	4,500	-	-	-	7.50	4,500	-	-	15.00	9,000	9,000		
				Geotechnical Instrumentation																		
102	4.4.25	2330.25		V-Notch Weirs, excluding Shelters	unit	2	123.50	247	11,500.00	23,000	12,068.00	24,136	11,000.00	22,000	-	-	-	34,568.00	69,136	69,136		
103	4.4.26	2330.26		Shelters for V-Notch Weirs	unit	2	18.50	37	2,000.00	4,000	15,000.00	30,000	-	-	-	-	-	17,000.00	34,000	34,000		
104	4.4.27	2330.27		Survey Monuments at South Dam Crest	unit	3	-	-	-	-	-	-	-	2,000.00	6,000	-	-	2,000.00	6,000	6,000		
				SUB-TOTAL SOUTH DAM																		
											24,112		2,231,221		3,548,220		3,670,213		401,356		9,851,010	9,851,010
4.5				2320 NORTH DAM																		
				CIVIL WORK																		
				Clearing																		
105	4.5.1	2320.01		Clearing of the North Abutment	Ha	3	245.33	736	22,666.67	68,000	-	-	46,666.67	140,000	-	-	-	69,333.34	208,000	208,000		
				Excavation																		
106	4.5.2	2320.02		Overburden Excavation	m ³	72,000	0.03	2,208	2.79	200,880	-	-	6.94	499,680	-	-	-	9.73	700,560	700,560		
				Foundation Preparation																		
107	4.5.3	2320.03		Foundation Cleaning (water/air jets and vacuum)	m ²	13,500	0.26	3,519	23.85	321,975	-	-	13.33	179,955	-	-	-	37.18	501,930	501,930		
108	4.5.4	2320.04		Rock Excavation including Dental Excavation and Scaling	m ³	6,000	0.48	2,858	43.83	262,980	22.22	133,320	52.50	315,000	-	-	-	118.55	711,300	711,300		
109	4.5.5	2320.05		Dental Concrete	m ³	4,000	2.11	8,424	195.00	780,000	507.73	2,030,920	-	-	49.83	199,320	-	752.56	3,010,240	3,010,240		
110	4.5.6	2320.06		Slush Grout	m ³	13,500	0.39	5,199	35.19	475,065	11.25	151,875	2.22	29,970	-	-	-	48.66	656,910	656,910		
111	4.5.7	2320.07		Dry Pack	m ³	70	36.10	2,527	3,357.14	235,000	882.40	61,768	171.43	12,000	-	-	-	4,410.97	308,768	308,768		
112	4.5.8	2320.08		Drilling Holes in RCC and Bedrock for Grouting	m	4,200	1.57	6,578	155.84	654,528	5.49	23,058	9.05	38,010	130.95	549,990	-	301.33	1,265,586	1,265,586		
113	4.5.9	2320.09		Grouting - Successful Connections	unit	720	0.28	198	26.25	18,900	-	-	-	100.00	72,000	-	-	126.25	90,900	90,900		
114	4.5.10	2320.10		Dry Cement incorporated in the grout	kg	126,000	0.01	695	0.60	75,600	-	-	-	2.10	264,600	-	-	2.70	340,200	340,200		
115	4.5.11	2320.11		Cored Drill Check Holes	m	60	99.00	5,940	154.20	9,252	-	-	-	296.00	17,760	-	-	450.20	27,012	27,012		
116	4.5.12	2320.12		Percussion Drilling Check Holes	m	120	1.28	153	120.46	14,455	-	-	-	216.00	25,920	-	-	336.46	40,375	40,375		

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0009 - CONSTRUCTION OF NORTH AND SOUTH DAMS				SCHEDULE OF PRICE BREAKDOWN										APPENDIX A2.1 Rev. B2					
ISSUED FOR: BID DATE: 14 - Oct - 2014				BIDDER'S NAME: Bidder 2															
PRICE ITEM	WBS CODE	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATE QUANTITY	MAN HOURS (AT SITE)	Extended M/H	MANPOWER COST/UNIT (\$ CAN)	Extended Labour Cost	MATERIALS COST/UNIT (\$ CAN)	Extended Material Cost	EQUIPMENT COST/UNIT (\$ CAN)	Extended Equipment Cost	S/C Cost/Unit F	Extended S/C	PROFIT COST/UNIT (\$ CAN)	Extended OH&P	UNIT PRICE (\$ CAN) F=(B+C+D+E+F)	Check Total	TOTAL PRICE (\$ CAN) G= A x F
No	REFERENCE Exhibit 2 - ATT 1	CODE	SUBCODE																
117	4.5.13		2320.13	Water pressure test (ugeon - 5 Stages)	hour	15	2.93	44	272.00	4,080	-	-	-	506.00	7,590	-	778.00	11,670	11,670
118	4.5.14		2320.14	Water Pressure Test - Successful connections	unit	36	1.22	44	113.33	4,080	-	-	-	211.00	7,596	-	324.33	11,676	11,676
119	4.5.15		2320.15	Uplift gauges	m	60	1.65	99	154.20	9,252	-	-	-	510.00	30,600	-	664.20	39,852	39,852
120	4.5.16		2320.16	Thermistor (measure temperature in grout holes)	unit	1	44.00	44	3,750.00	3,750	-	-	-	8,046.00	8,046	-	11,796.00	11,796	11,796
				Drainage Holes															
121	4.5.17		2320.17	Drilling Holes for Drainage in Foundation from Drainage Gallery, Ø76 mm	m	3,200	1.32	4,239	133.36	426,752	-	-	-	134.38	430,016	-	267.74	856,768	856,768
122	4.5.18		2320.18	PVC Caps for Drainage Holes	unit	125	-	-	-	-	-	-	-	28.00	3,500	-	28.00	3,500	3,500
123	4.5.19		2320.19	Drilling Holes Upward for Drainage from Drainage Gallery into RCC, Ø76 mm	m	3,200	1.60	5,122	149.38	478,016	-	-	-	134.38	430,016	-	283.76	908,032	908,032
				Instrumentation															
124	4.5.20		2320.20	Drilling Holes for piezometers	m	100	-	-	-	-	-	-	-	296.00	29,600	-	296.00	29,600	29,600
125	4.5.21		2320.21	Vibrating Wire and Standpipe Piezometers TYPE - 1, excluding Cables	unit	8	-	-	-	-	-	-	-	13,600.00	108,800	-	13,600.00	108,800	108,800
126	4.5.22		2320.22	Vibrating Wire and Standpipe Piezometers TYPE - 2, excluding Cables	unit	2	-	-	-	-	-	-	-	3,000.00	6,000	-	3,000.00	6,000	6,000
127	4.5.23		2320.23	Instrument Cable including PVC Conduits and Pull Boxes	m	2,700	-	-	-	-	-	-	-	28.00	75,600	-	28.00	75,600	75,600
128	4.5.24		2320.24	Thermistors Cable in RCC	unit	8	-	-	-	-	-	-	-	5,000.00	40,000	-	5,000.00	40,000	40,000
129	4.5.25		2320.25	V-notch Weirs	unit	4	-	-	8,243.00	32,972	-	-	-	6,000.00	24,000	-	14,243.00	56,972	56,972
130	4.5.26		2320.26	Vibrating Wire Weir Monitors.	unit	4	-	-	-	-	-	-	-	16,000.00	64,000	-	16,000.00	64,000	64,000
131	4.5.27		2320.27	Data logger, Terminal Box, Barometer Box including Grounding	LS	1	-	-	-	-	-	-	-	150,000.00	150,000	-	150,000.00	150,000	150,000
132	4.5.28		2320.28	Crest Survey Monuments	unit	4	-	-	-	-	-	-	-	2,000.00	8,000	-	2,000.00	8,000	8,000
				Concrete and RCC operations															
133	4.5.29		2320.29	Roller Compacted Concrete (RCC) RCC - Trial Section	m ³	200,738	0.79	158,485	73.65	14,784,354	159.41	31,999,645	3.36	674,480	1.96	393,446	218.38	47,851,924	47,851,924
134	4.5.30		2320.30	Conventional Vibrated Concrete (CVC) (Crest and Flip Bucket)	m ³	4,612	0.07	300	37.34	174,975	325.24	1,500,007	75.89	350,005	439.07	2,024,992	439.07	2,024,992	2,024,992
135	4.5.31		2320.31	Facing Concrete	m ³	11,100	3.59	39,834	331.98	3,684,978	585.59	6,500,049	42.79	474,969	16.35	181,485	976.71	10,841,481	10,841,481
136	4.5.32		2320.32	SE-RCC or SEVM - Formed Faces	m ³	8,600	1.48	12,719	134.88	1,159,968	494.19	4,250,034	22.09	189,974	31.02	266,772	682.18	5,866,748	5,866,748
137	4.5.33		2320.33	Conventional Vibrated Concrete (North Abutment Crest Surface and Training Wall)	m ³	4,650	1.54	7,139	140.43	833,000	483.87	2,249,990	-	61.29	284,399	685.38	3,187,990	3,187,990	
138	4.5.34		2320.34	Increase or decrease in quantity of cement - Bid Mix (rate only)	Kg	N/A	-	-	-	-	0.41	-	-	-	-	-	0.41	-	-
139	4.5.35		2320.35	Increase or decrease in quantity of flyash - Bid Mix (rate only)	Kg	N/A	-	-	-	-	0.41	-	-	-	-	-	0.41	-	-
140	4.5.36		2320.36	Increase or decrease in quantity of cement - Source B (rate only)	Kg	N/A	-	-	-	-	0.37	-	-	-	-	-	0.37	-	-
141	4.5.37		2320.37	Increase or decrease in quantity of flyash - Source B (rate only)	Kg	N/A	-	-	-	-	0.37	-	-	-	-	-	0.37	-	-
142	4.5.38		2320.38	Air-entraining Admixture	litre	315,000	-	-	-	-	1.38	434,700	-	-	-	-	1.38	434,700	434,700
143	4.5.39		2320.39	Retarder Admixture	litre	336,000	-	-	-	-	1.53	514,080	-	-	-	-	1.53	514,080	514,080
144	4.5.40		2320.40	Precast Concrete	LS	1	478.00	478	43,500.00	43,500	1,750,000	1,750,000	-	-	-	-	1,793,500.00	1,793,500	1,793,500
145	4.5.41		2320.41	Gallery Floor CVC Concrete	m ³	275	12.50	3,437	1,163.64	320,001	800.00	220,000	60.00	16,500	129.09	35,500	2,152.73	592,001	592,001
146	4.5.42		2320.42	Steel Reinforcement	kg	500,000	0.003	1,711	0.31	155,000	0.08	40,000	0.23	115,000	4.11	2,055,000	4.73	2,365,000	2,365,000
147	4.5.43		2320.43	Steel Guardrails	kg	5,200	0.03	161	2.82	14,664	15.00	78,000	-	-	-	-	17.82	92,664	92,664
148	4.5.44		2320.44	Waterstop	m	1,350	0.60	815	56.67	76,505	21.48	28,998	-	-	-	-	78.15	105,503	105,503
4.6			2370	NORTH DAM - Auxiliary Services															
				ELECTRICAL WORK															
149	4.6.1		2370.01	Exothermic Connections.	unit	20	-	-	-	-	-	-	-	1,710.00	34,200	-	1,710.00	34,200	34,200
150	4.6.2		2370.02	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 500 kcmil	m	815	-	-	-	-	-	-	-	137.00	111,655	-	137.00	111,655	111,655
151	4.6.3		2370.03	Bare, Stranded, Medium Hard-Drawn Copper Conductor, size 4/0 AWG	m	16	-	-	-	-	-	-	-	81.25	1,300	-	81.25	1,300	1,300
152	4.6.4		2370.04	Embedded Copper Grounding Plates	unit	7	-	-	-	-	-	-	-	1,714.29	12,000	-	1,714.29	12,000	12,000
				SUB-TOTAL NORTH DAM															
						275,309		25,259,514		52,249,422		3,035,542		5,943,788			86,488,267	86,488,267	
Variance is in Unit Rate only in Bidder Total																			
5	3100			Powerhouse Channels															
5.1	3120.00			Tailrace															
				CIVIL WORK															
				Tailrace Rock Plug - Overburden Excavation															
153	5.1.1		3120.01	Overburden Excavation, excluding excavation of Cofferdam 3 - Dry Conditions	m ³	12,000	0.02	203	1.58	18,960	-	-	6.50	78,000	-	-	8.08	96,960	96,960
				Tailrace Rock Plug - Rock Excavation															

LOWER CHURCHILL PROJECT MUSKRAT FALLS CH0009 - CONSTRUCTION OF NORTH AND SOUTH DAMS				SCHEDULE OF PRICE BREAKDOWN										APPENDIX A2.1 Rev. B2																										
ISSUED FOR: BID DATE: 14 - Oct - 2014				BIDDER'S NAME: Bidder 2																																				
No	REFERENCE Exhibit 2 - ATT 1	WBS CODE CODE	SUBCODE	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATE D QUANTITY	MAN HOURS (AT SITE)	Extended M/H	MANPOWER COST/UNIT (\$ CAN)	Extended Labour Cost	MATERIALS COST/UNIT (\$ CAN)	Extended Material Cost	EQUIPMENT COST/UNIT (\$ CAN)	Extended Equipment Cost	S/C Cost/Unit F	Extended S/C	PROFIT COST/UNIT (\$ CAN)	Extended OH&P	UNIT PRICE (\$ CAN) F=(B+C+D+E+F)	Check Total	TOTAL PRICE (\$ CAN) G= A x F																			
154	5.1.2		3120.02	Tailrace Rock Plug Excavation including access ramp to powerhouse Dry Conditions	m ³	170,000	0.06	10,964	5.91	1,004,700	7.06	1,200,200	12.35	2,099,500					25.32	4,304,400	4,304,400																			
155	5.1.3		3120.03	Tailrace Rock Plug - Underwater Excavation	m ³	34,000	0.15	5,232	14.12	480,080	22.06	750,040	26.18	890,120					62.36	2,120,240	2,120,240																			
Tailrace Rock Plug - Stabilization and Rock Surface Protection																																								
156	5.1.4		3120.04	Grouted Rock Bolts Type A	unit	70	2.30	161	214.29	15,000	71.43	5,000	214.29	15,000					500.01	35,001	35,001																			
157	5.1.5		3120.05	Grouted Rock Bolts Type C	unit	20	4.60	92	425.00	8,500	70.00	1,400	400.00	8,000					895.00	17,900	17,900																			
158	5.1.6		3120.06	Chain Link Wire Mesh - Installation	m ²	2,500	0.33	828	30.40	76,000	26.00	65,000	12.00	30,000					68.40	171,000	171,000																			
159	5.1.7		3120.07	Chain Link Wire Mesh - Removal	m ²	20,300	0.04	747	3.40	69,020	-	-	0.24	4,872					3.64	73,892	73,892																			
160	5.1.8		3120.08	Existing Temporary Safety Fence - Removal	m	1,200	0.12	147	12.50	15,000	-	-	3.75	4,500					16.25	19,500	19,500																			
SUB-TOTAL TAILRACE								18,374		1,687,260		2,021,640		3,129,992						6,838,893	6,838,893																			
Borrow Areas																																								
Borrowed Construction Material																																								
161	6.1.1		1117.00	Overhaul of Borrowed Construction Material (rate only)	m3/km	N/A															2.00																			
			3120.01	RCC Coarse Aggregate - Crush & stockpile	tonne	N/A															20.00																			
			3120.01	RCC Fine Aggregate - Crush & stockpile	m3/km	N/A															25.00																			
ROW A	CALCULATED TOTAL OF LUMP SUM AND UNIT PRICE ITEMS (BASED ON APPROXIMATE QUANTITIES)				Total Price																																			
								885,881		102,173,408		113,993,325		81,294,932		18,335,191					315,796,855	315,796,855																		
								400,967		36,938,284											315,796,855																			
Add Craft Travel																																							\$ 7,691,689.00	
Revised Total Price																																								323,488,544
NOTES																																								
Note 1: If there has been an error in the calculation to establish the total of Column G (Total Price) or Column F (UNIT PRICE), then the figures of column A (Estimated Quantity of Units), column B (Man Hours), column C (Manpower), column D (Equipment) and column E (Profits) will prevail.																																								
Note 2: This Document is provided to the bidders in Native Excel File format. It is the bidders responsibility to verify cell formats and formulas.																																								
Note 3: Bidders shall not include any HST/GST from any source (whether from Bidder, subcontractor, vendors or suppliers) in the unit and lump sum prices in this Schedule of Price Breakdown. Bidders shall claim input tax credits on taxable supplies received from vendors, suppliers and subcontractors and thereof Bidders shall exclude HST/GST payable to the vendors.																																								

FOR THE LOWER CHURCHILL PROJECT - MUSKRAT FALLS	
This Appendix forms part of the Proposal submitted by:	
Name of Bidder:	
Request For Proposal, Package No: CH0009	
Signature:	
Date of Proposal: DD-MMM-YYYY	

Package # CH0009
 Package: Construction of North and South Dams

Date: 2-Dec-14
 Est. by: RPL

Bidder 2

Normalisation Summary

Item	Description	Estimated		Unit cost	Materials			Sub	Equipment		Total	Comments
		Quantity	Unit		Labour	Consum	Perm		Services	Outside		
A. Bidder Commercial Exceptions												
1	Labour Risk			17,364,064							1,472,922	18,536,986
2	1 Year Warranty										600,000	600,000
3	100 year storm to 20 year storm										200,000	200,000
4	Negotiate Unit Prices & Schedule for Quantity Increases										769,133	769,133
5	Claim(s) acknowledgement at Substantial Completion											
6	Liquidated Damages											
7	Holdback release											
Sub Total A					17,364,064						2,742,055	20,106,119
B. Bidder Technical Exceptions												
1	Zone Materials payment by Tonne											
2	Payment for Major Components at LNTP										900,000	900,000
3	Removal of upstream Crane Pads											
4	Zones 2 & 3 crushed from Area A											
5	No Royalties											
6	Waste to Area A											
7	No underwater excavation pre-splitting											
8	RCC levelling concrete											
9	RCC on upstream face. Bid Item 136.1											
10	Precast Concrete as Lump Sum											
11	No HST on fuel											
12	Box culvert on North Dam eliminated											
13	Schedule Time for Jet Grouting										2,450,000	2,450,000
14	Fuel Supply - Exhibit 12 article 3.1.9										980,000	980,000
15	Interrupted Company Power - fuel for generators											
16	No allowance for Company Offices - Exhibit 7 article 4.0e										72,000	72,000
17	Intake Cofferdam as ramp for Temp. bridge											
18	All QA/QC testing by Company											
19	Revise uplift % on significant changes in scope.										841,070	841,070
20	Engineer approval turn-around 10 day in lieu of 21 day.										156,000	156,000
21	Tailrace Channel during plug exc. In dry - no dewatering.											
22	No source B for flyash & cement identified.											
23	weather days/month scheduled.											
Sub Total B											5,399,070	5,399,070
C. Company Technical Exceptions												
1	Laydown Areas B, A, G & F assumed available for Contractor.											
2	Dewatering Capacity not specified.											
3	Removal of crane pad on North Dam Downstream excluded											
4	Electronic Detonators for u/w blasting not mentioned.											
5	Bubble curtain not mentioned.											
6	South Dam start 2015 - possible conflict to C1											
7	Use of Transmission ROW as crushing equipment set-up											
8	Sedimentation Pond for River Work after headpond at 25m											
9	RCC - Sloped Installation											
Sub Total C												
Total					17,364,064						8,141,126	25,505,190

25,505,190

Package # CH0009
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Bidder 2

Item: Labour Risk 102,173,408

Item	Description		Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
			Quantity	Unit			Consum	Perm			Outside	Company		
1	Labour Total from Proposal												-	
	Indirect	By Bidder		25%		-							-	
	Direct	36,938,284		25%		9,234,571							9,234,571	
	Travel	4,691,689		25%						1,172,922			1,172,922	
	Equipment	81,294,932		10%		8,129,493							8,129,493	
Total						17,364,064	-	-	-	1,172,922	-	-	18,536,986	

18,536,986

Package # CH0009
 Package: Construction of North and South Dams

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 Est. by: RPL

Bidder 2

Item: 1 Year Warranty

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Unit Price from attachment A2.1		2 Year	300,000					600,000			600,000	
					-							-	
					-							-	
					-							-	
					-							-	
Total						-	-	-	600,000	-	-	600,000	

600,000

Package # CH0009
 Package: Construction of North and South Dams

Date: 2-Dec-14
 Est. by: RPL

Bidder 2

Item: Negotiate Unit Prices & Schedule for Quantity Increases

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Allow 5% growth		10%	7,691,331					769,133			769,133	
	Total Bid	323,488,544			-							-	
	Indirects	169,661,922			-							-	
	Net	153,826,623										-	
		7,691,331	5%									-	
Total									769,133			769,133	

769,133

Package # CH0009
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Date:	2-Dec-14
Est. by:	RPL

Bidder 2

Item: Zone Materials payment by Tonne

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Delta All Bidders				-							-	
					-							-	
					-							-	
					-							-	

Total

-	-	-	-	-	-	-	-
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Package # CH0009
 Package: Construction of North and South Dams

Date:	2-Dec-14
Est. by:	RPL

Bidder 2

Item: Waste to Area A

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1					-							-	
												-	
												-	
												-	
												-	

Total

-	-	-	-	-	-	-	-
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Package # CH0009
 Package: Construction of North and South Dams

Date: 2-Dec-14
 Est. by: RPL

Bidder 2

Item: Schedule Time for Jet Grouting

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Risk is extension of time cost for jet-grouting work Allow 5 weeks (see Bidder 3 schedule)				-							-	
	Allow 35 days delay at LD rate	35	Day	70,000.00	-				2,450,000			2,450,000	
Total									2,450,000			2,450,000	

Package # CH0009
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Bidder 2

Item: Fuel Supply - Exhibit 12 article 3.1.9

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Risk is supply failiure by Fuel supplier causing delay											-	
	Allow 14 days delay at LD rate	14	Day	70,000.00	-				980,000			980,000	
Total									980,000			980,000	

Package # CH0009
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Bidder 2

Item: No allowance for Company Offices - Exhibit 7 article 4.0e

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Allow for small trailer x 1 incl furnishings & services	36	month	2,000	-				72,000			72,000	
					-							-	
					-							-	
					-							-	
Total									72,000			72,000	

Package # CH0009
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Bidder 2

Item: Revise uplift % on significant changes in scope.

Item	Description	Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate
		Quantity	Unit			Consum	Perm			Outside	Company		
1	Allowance of Force Account Work	13%		6,469,771					841,070			841,070	
	Total Bid	323,488,544										-	
	Indirects	-										-	
	Net	323,488,544										-	
		6,469,771	2%									-	
												-	
												-	
	Total				-	-	-	-	841,070	-	-	841,070	

Package # CH0009
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Bidder 2

Item: Engineer approval turn-around 10 day in lieu of 21 day.

Item	Description			Estimated		Unit cost	Labour	Materials		Sub Trades	Services	Equipment		Total	Unit Rate			
				Quantity	Unit			Consum	Perm			Outside	Company					
1	Allow for 1 additional Engineer for 6 months Engineer	26	5	130		1,200.00	-				156,000			-				
														-				
														-				
														-				
														-				
Total																		
											-	-	-	-	156,000	-	-	156,000

Package # CH0009
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Bidder 2

Item: Laydown Areas B, A, G & F assumed available for Contractor.

Item	Description	Estimated		Unit cost		Labour		Materials		Sub Trades	Services	Equipment		Total	Unit Rate	
		Quantity	Unit	Unit cost	Labour	Consum	Perm	Outside	Company							
1						-	-							-		
														-		
														-		
														-		
Total											-	-	-	-	-	-

