

Lower Churchill Project
Final DG3 Estimate as submitted to Nalcor on June 1st, 2012

Package No.	Package Name	Labor Costs	Permanent Material Costs	Construction Material Costs	Equipment Costs	Subcontractor Costs	Total cost by package	Man Hours
Component 1								
CH0002	Supply and Install Accommodations Complex Buildings	\$ -	\$ -	\$ 65,267,190.63	\$ -	\$ -	\$ 65,267,190.63	251,001
CH0003	Supply and Install Administrative Buildings	\$ -	\$ -	\$ 8,369,000.00	\$ -	\$ -	\$ 8,369,000.00	15,000
CH0004	Construction of Southside Access Road	\$ -	\$ -	\$ 23,520,485.03	\$ -	\$ -	\$ 23,520,485.03	98,989
CH0005	Supply and Install Accommodations Complex Site Utilities	\$ -	\$ -	\$ 18,017,563.50	\$ -	\$ -	\$ 18,017,563.50	5,500
CH0006	Construction of Bulk Excavation Works and Associated Civil Works	\$ 21,282,362.93	\$ 17,788,365.73	\$ 67,726,838.18	\$ 26,984,685.61	\$ 395,900.00	\$ 134,178,152.45	308,442
CH0007	Construction of Intake and Powerhouse, Spillway and Transition Dams	\$ 195,419,785.31	\$ 184,905,389.00	\$ 213,603,096.84	\$ 91,825,840.63	\$ 2,240,000.00	\$ 687,994,111.78	2,976,086
CH0008	Construction of North Spur Stabilization Works	\$ 10,878,547.23	\$ 18,523,143.00	\$ 21,944,537.69	\$ 11,113,581.74	\$ 250,000.00	\$ 62,709,809.66	158,120
CH0009	Construction of North and South Dams	\$ 25,518,749.05	\$ 51,350,709.73	\$ 13,907,321.32	\$ 20,555,636.18	\$ 5,834,090.00	\$ 117,166,506.28	365,173
CH0023	Construction of Reservoir Clearing South Bank	\$ 17,273,411.31	\$ -	\$ 44,904,906.82	\$ 22,855,541.85	\$ -	\$ 85,033,859.98	249,228
CH0024	Construction of Reservoir Clearing North Bank	\$ 11,054,224.84	\$ -	\$ 28,364,545.97	\$ 14,626,542.47	\$ -	\$ 54,045,313.28	159,495
CH0030	Supply and Install Turbines and Generators	\$ -	\$ -	\$ 240,423,478.08	\$ -	\$ -	\$ 240,423,478.08	258,144
CH0031	Supply and Install Mechanical and Electrical Auxiliaries (MF)	\$ 18,929,298.82	\$ 33,129,226.90	\$ 31,955,654.99	\$ 6,017,704.63	\$ 1,881,413.04	\$ 91,913,298.38	271,218
CH0032	Supply and Install Powerhouse Hydro-Mechanical Equipment	\$ 26,269,750.00	\$ 66,215,248.00	\$ 9,040,169.68	\$ -	\$ -	\$ 101,525,167.68	123,079
CH0033	Supply and Install Powerhouse Cranes	\$ -	\$ -	\$ 8,872,175.00	\$ -	\$ -	\$ 8,872,175.00	19,000
CH0034	Supply and Install Powerhouse Elevator	\$ -	\$ -	\$ 755,300.00	\$ -	\$ -	\$ 755,300.00	4,000
CH0039	Supply and Install McKenzies River Permanent Bridge	\$ -	\$ -	\$ 2,635,900.00	\$ -	\$ -	\$ 2,635,900.00	12,000
CH0046	Supply and Install Spillway Hydro-Mechanical Equipment	\$ 14,782,040.00	\$ 33,600,714.00	\$ 2,412,026.55	\$ -	\$ -	\$ 50,794,780.55	62,254
CH0048	Construction of Site Clearing Access Road & Ancillary Areas	\$ -	\$ -	\$ 3,589,829.95	\$ -	\$ -	\$ 3,589,829.95	16,000
CH0049	Supply and Install Log Booms	\$ -	\$ -	\$ 7,500,000.00	\$ -	\$ -	\$ 7,500,000.00	19,500
CH0052	Construction of Habitat Compensation Works	\$ -	\$ -	\$ 10,100,000.00	\$ -	\$ -	\$ 10,100,000.00	N / A
PH0014	Supply of Generator Step-up Transformer	\$ 20,026.69	\$ 19,441,187.00	\$ 3,254.36	\$ -	\$ -	\$ 19,464,468.05	287
PH0015	Supply of Isolated Phase Bus	\$ -	\$ 1,860,952.00	\$ -	\$ -	\$ -	\$ 1,860,952.00	N / A
PH0016	Supply of Generator Circuit Breakers	\$ -	\$ 5,056,000.00	\$ -	\$ -	\$ -	\$ 5,056,000.00	N / A
PH0036	Supply of Auxiliary Transformers	\$ -	\$ -	\$ 469,281.25	\$ -	\$ -	\$ 469,281.25	N / A
PH0037	Supply of 25kV Switchgear	\$ -	\$ -	\$ 1,366,952.00	\$ -	\$ -	\$ 1,366,952.00	N / A
PH0038	Supply of Emergency Diesel Generators	\$ -	\$ -	\$ 1,706,125.00	\$ -	\$ -	\$ 1,706,125.00	N / A
SH0018	Provision of Catering, Housekeeping and Janitorial Services (MF)	\$ -	\$ -	\$ 114,800,000.00	\$ -	\$ -	\$ 114,800,000.00	1,847,790
SH0019	Provision of Security Services	\$ -	\$ -	\$ 21,907,250.00	\$ -	\$ -	\$ 21,907,250.00	360,060
SH0020	Provision of Medical Services	\$ -	\$ -	\$ 19,029,000.00	\$ -	\$ -	\$ 19,029,000.00	120,960
SH0021	Provision of Road Maintenance and Snow Clearing Services (MF)	\$ -	\$ -	\$ 8,150,000.00	\$ -	\$ -	\$ 8,150,000.00	18,000
SH0022	Provision of Fuel Supply and Dispensing Services (MF)	\$ -	\$ -	\$ 750,000.00	\$ -	\$ -	\$ 750,000.00	N / A
SH0040	Provision of Garbage Removal and Disposal Services (MF)	\$ -	\$ -	\$ 2,500,000.00	\$ -	\$ -	\$ 2,500,000.00	18,250
SH0041	Provision of Ground Transportation Services (HVGB to MF)	\$ -	\$ -	\$ 12,685,680.00	\$ -	\$ -	\$ 12,685,680.00	73,000
SH0051	Provision of Buildings Maintenance Services (MF)	\$ -	\$ -	\$ 24,000,000.00	\$ -	\$ -	\$ 24,000,000.00	106,000
	Subtotals Component 1:	\$ 341,428,196.18	\$ 431,870,935.36	\$ 1,030,277,562.84	\$ 193,979,533.11	\$ 10,601,403.04	\$ 2,008,157,630.53	7,916,576
Component 3								
CD0501	Supply and Install Converters, Harmonic Filters & Transition Compounds	\$ 26,877,284.62	\$ 307,836,005.50	\$ 38,551,341.27	\$ 4,523,023.22	\$ 23,866,744.50	\$ 401,654,399.11	457,098
CD0502	Construction of Switchyard & Synchronous Condensers Facilities	\$ 55,844,204.43	\$ 35,318,094.97	\$ 40,077,484.69	\$ 10,464,527.92	\$ 18,833,269.00	\$ 160,537,581.01	884,472
CD0503	Construction of Earth Works at Various Power Distribution Sites	\$ 26,682,261.74	\$ 7,527,168.00	\$ 19,331,422.76	\$ 5,121,653.03	\$ 8,356,010.00	\$ 67,018,515.53	405,341
CD0508	Construction of Electrodes Sites	\$ 1,050,191.83	\$ 23,587,699.00	\$ 2,611,031.80	\$ 68,957.91	\$ -	\$ 27,317,880.54	14,707
CD0509	Provision of Construction Telecommunication Services - Phase 2	\$ -	\$ -	\$ 13,871,945.90	\$ -	\$ -	\$ 13,871,945.90	88,997
CD0510	Supply and Install Permanent Communication Systems	\$ -	\$ 22,699,652.40	\$ 250,000.00	\$ -	\$ -	\$ 22,949,652.40	145,632
CD0512	Construction of Construction Power Facilities	\$ -	\$ 8,873,000.00	\$ 100,000.00	\$ -	\$ -	\$ 8,973,000.00	14,100
CD0534	Supply and Install Synchronous Condensers	\$ 7,165.05	\$ 74,237,074.00	\$ 751,087.20	\$ -	\$ -	\$ 74,995,326.25	75,000
CD0535	Provision of Construction Telecommunication Services - Phase 2 Remote Camps	\$ -	\$ -	\$ 6,753,036.37	\$ -	\$ -	\$ 6,753,036.37	43,325
CD0538	Supply and Install Accommodations Camp (CF)	\$ -	\$ -	\$ 17,343,523.00	\$ -	\$ -	\$ 17,343,523.00	50,000
PD0505	Supply of Switchyard Electro-Mechanical Equipment	\$ 22,587.16	\$ 88,425,735.60	\$ 6,717,103.64	\$ -	\$ -	\$ 95,165,426.40	356
PD0513	Supply of 138/25 kV Transformers	\$ -	\$ 2,098,005.00	\$ -	\$ -	\$ -	\$ 2,098,005.00	N / A
PD0514	Supply of 138 kV & 25 kV Circuit Breakers	\$ -	\$ 205,100.00	\$ -	\$ -	\$ -	\$ 205,100.00	N / A
PD0515	Supply of 230 kV, 138 kV & 25 kV Disconnect Switches	\$ -	\$ 212,480.00	\$ -	\$ -	\$ -	\$ 212,480.00	N / A
PD0518	Supply of 138 kV Capacitor Voltage Transformers	\$ -	\$ 25,540.00	\$ -	\$ -	\$ -	\$ 25,540.00	N / A
PD0519	Supply of 25 kV Vacuum Interrupters	\$ -	\$ 142,600.00	\$ -	\$ -	\$ -	\$ 142,600.00	N / A
PD0520	Supply of 25 kV 6 x 3.6 MVAR Capacitor Banks	\$ -	\$ 207,252.00	\$ -	\$ -	\$ -	\$ 207,252.00	N / A
PD0522	Supply of Pre-fabricated Control Room Building	\$ -	\$ 806,701.00	\$ -	\$ -	\$ -	\$ 806,701.00	N / A
PD0523	Supply of Substation Service Transformer	\$ -	\$ 18,236.00	\$ -	\$ -	\$ -	\$ 18,236.00	N / A
PD0529	Supply of 25 kV Reclosers, MV Switches & Fuse Cut-outs	\$ -	\$ 62,859.00	\$ -	\$ -	\$ -	\$ 62,859.00	N / A

PD0530	Supply of 138 kV & 25 kV Surge Arrestors	\$ -	\$ 41,325.00	\$ -	\$ -	\$ -	\$ 41,325.00	N / A
PD0531	Supply of MV Instrument Transformer	\$ -	\$ 55,512.00	\$ -	\$ -	\$ -	\$ 55,512.00	N / A
PD0533	Supply and Install Early Works Telecom Devices	\$ -	\$ -	\$ 317,425.00	\$ -	\$ -	\$ 317,425.00	-
PD0537	Supply of Power Transformers	\$ 298,783.27	\$ 29,096,682.00	\$ 81,040.84	\$ 27,407.36	\$ -	\$ 29,503,913.47	4,194
PD0561	Supply of RTU Cabinet (CF)	\$ -	\$ -	\$ 50,000.00	\$ -	\$ -	\$ 50,000.00	N / A
PD0562	Supply of Protection Relays (CF)	\$ -	\$ -	\$ 100,000.00	\$ -	\$ -	\$ 100,000.00	N / A
PD0563	Supply of 138 kV Circuit Switcher (CF)	\$ -	\$ -	\$ 117,000.00	\$ -	\$ -	\$ 117,000.00	N / A
SD0536	Provision of Integrated Commissioning Support Services	\$ 351,726.29	\$ 11,980,600.00	\$ 2,028,989.73	\$ 15,384.06	\$ -	\$ 14,376,700.08	5,139
SD0560	Provision of Early Works Construction Telecommunication Services (MF)	\$ -	\$ 307,993.00	\$ -	\$ -	\$ -	\$ 307,993.00	1,745
	Subtotals Component 3	\$ 111,134,204.39	\$ 613,765,314.47	\$ 149,052,432.20	\$ 20,220,953.50	\$ 51,056,023.50	\$ 945,228,928.06	2,190,105
Component 4								
CT0319	Construction of 315 kV HVac Transmission Line (MF to CF)	\$ 43,014,168.22	\$ 12,376,068.20	\$ 100,182,306.15	\$ 32,543,900.01	\$ -	\$ 188,116,442.58	734,386
CT0327	Construction of 350 kV HVdc Transmission Line - Section 1	\$ 53,558,685.52	\$ 7,470,292.61	\$ 223,768,943.89	\$ 68,168,645.73	\$ 6,021,906.00	\$ 358,988,473.75	981,816
CT0341	Clearing of Right of Way for 315 kV HVac Transmission Line (MF to CF)	\$ 4,255,578.82	\$ 768,000.00	\$ 13,695,871.33	\$ 10,981,851.06	\$ -	\$ 29,701,301.21	74,876
CT0342	Construction of AC Transmission Lines - Island	\$ 541,632.45	\$ 1,381,234.50	\$ 10,694,757.59	\$ 392,497.65	\$ -	\$ 13,010,122.19	21,226
CT0343	Clearing of Right of Way for HVdc Transmission Line - Section 1	\$ 18,851,434.40	\$ -	\$ 48,294,082.29	\$ 18,927,436.05	\$ 5,752,800.00	\$ 91,825,752.74	328,975
CT0345	Clearing of Right of Way for HVdc Transmission Line - Section 2	\$ 11,120,609.66	\$ -	\$ 26,136,451.85	\$ 14,316,490.69	\$ 2,188,800.00	\$ 53,762,352.20	192,567
CT0346	Construction of 350 kV HVdc Transmission Line - Section 2	\$ 37,216,211.07	\$ 4,652,897.98	\$ 94,827,824.84	\$ 30,015,921.87	\$ 934,312.00	\$ 167,647,167.76	705,372
PT0300	Supply of Transmission Line Conductors - 315 kV HVac	\$ -	\$ 18,996,000.00	\$ 900,000.00	\$ -	\$ -	\$ 19,896,000.00	N / A
PT0301	Supply of HVac Insulators - 315 kV HVac	\$ -	\$ 4,792,470.00	\$ -	\$ -	\$ -	\$ 4,792,470.00	N / A
PT0302	Supply of Steel Towers - 315 kV HVac	\$ -	\$ 23,878,999.73	\$ -	\$ -	\$ -	\$ 23,878,999.73	N / A
PT0303	Supply of Tower Hardware - 315 kV HVac	\$ -	\$ 12,133,404.75	\$ -	\$ -	\$ -	\$ 12,133,404.75	N / A
PT0304	Supply of Optical Ground Wire (OPGW) - 315 kV HVac	\$ -	\$ 2,322,859.79	\$ -	\$ -	\$ -	\$ 2,322,859.79	N / A
PT0307	Supply of Steel Tower Foundations - 315 kV HVac	\$ -	\$ 5,514,614.00	\$ -	\$ -	\$ -	\$ 5,514,614.00	N / A
PT0308	Supply of Steel Tower Foundations - 350 kV HVdc	\$ -	\$ 23,779,086.80	\$ -	\$ -	\$ -	\$ 23,779,086.80	N / A
PT0326	Supply of Steel Wires - 315 kV HVac	\$ -	\$ 2,066,831.00	\$ 730,930.00	\$ -	\$ -	\$ 2,797,761.00	N / A
PT0328	Supply of Transmission Line Conductors - 350 kV HVdc	\$ -	\$ 82,574,782.64	\$ -	\$ -	\$ -	\$ 82,574,782.64	N / A
PT0329	Supply of HVdc Insulators - 350 kV HVdc	\$ -	\$ 49,928,860.00	\$ -	\$ -	\$ -	\$ 49,928,860.00	N / A
PT0330	Supply of Steel Towers - 350 kV HVdc	\$ -	\$ 61,189,732.82	\$ -	\$ -	\$ -	\$ 61,189,732.82	N / A
PT0331	Supply of Tower Hardware - 350 kV HVdc	\$ -	\$ 6,431,817.62	\$ -	\$ -	\$ -	\$ 6,431,817.62	N / A
PT0334	Supply of Steel Wires - 350 kV HVdc	\$ -	\$ 1,815,840.00	\$ -	\$ -	\$ -	\$ 1,815,840.00	N / A
PT0335	Supply of Anchor Materials - 315 kV HVac	\$ -	\$ 1,920,942.90	\$ -	\$ -	\$ -	\$ 1,920,942.90	N / A
PT0336	Supply of 25 kV Distribution Line Hardware	\$ -	\$ 490,000.00	\$ -	\$ -	\$ -	\$ 490,000.00	N / A
PT0337	Supply of 25 kV Distribution Line ADSS Fibre Optic Cable	\$ -	\$ 460,000.00	\$ -	\$ -	\$ -	\$ 460,000.00	N / A
PT0338	Supply of 25 kV Distribution Line Conductors	\$ -	\$ 345,000.00	\$ -	\$ -	\$ -	\$ 345,000.00	N / A
PT0339	Supply of 25 kV Distribution Line Insulators	\$ -	\$ 65,000.00	\$ -	\$ -	\$ -	\$ 65,000.00	N / A
PT0340	Supply of Wood Poles for 138/25 kV Distribution Line	\$ -	\$ 375,000.00	\$ -	\$ -	\$ -	\$ 375,000.00	N / A
PT0351	Supply of Wood Poles	\$ -	\$ 430,060.00	\$ -	\$ -	\$ -	\$ 430,060.00	N / A
PT0352	Supply of Anchor Materials - 350 kV HVdc	\$ -	\$ 7,385,012.02	\$ 13,831,818.00	\$ -	\$ -	\$ 21,216,830.02	N / A
PT0353	Supply of Optical Ground Wire (OPGW) - 350 kV HVdc	\$ -	\$ 3,889,923.04	\$ -	\$ -	\$ -	\$ 3,889,923.04	N / A
ST0309	Provision of Geotechnical Investigation Services - 315 kV HVac	\$ -	\$ 950,000.00	\$ -	\$ -	\$ -	\$ 950,000.00	3,000
ST0310	Provision of Geotechnical Investigation Services - 315 kV HVdc	\$ -	\$ 3,800,000.00	\$ -	\$ -	\$ -	\$ 3,800,000.00	12,200
	Subtotals Component 4	\$ 168,558,320.14	\$ 342,184,730.40	\$ 533,062,985.94	\$ 175,346,743.06	\$ 14,897,818.00	\$ 1,234,050,597.54	3,054,417
Services Packages								
SM0700	Provision of General Freight Forwarding Services	\$ -	\$ -	\$ 10,000,000.00	\$ -	\$ -	\$ 10,000,000.00	32,800
SM0701	Provision of Third Party Quality Surveillance & Inspection Services	\$ -	\$ -	\$ 4,400,000.00	\$ -	\$ -	\$ 4,400,000.00	12,000
SM0703	Provision of Happy Valley-Goose Bay Project Office	\$ -	\$ -	\$ 480,000.00	\$ -	\$ -	\$ 480,000.00	-
SM0704	Provision of Surveying Services	\$ -	\$ 13,261,600.00	\$ -	\$ -	\$ -	\$ 13,261,600.00	200,000
SM0705	Provision of Laboratory Services	\$ -	\$ -	\$ 31,078,843.75	\$ -	\$ -	\$ 31,078,843.75	330,750
SM0706	Supply and Maintenance of Project Vehicles	\$ -	\$ -	\$ 3,290,000.00	\$ -	\$ -	\$ 3,290,000.00	N / A
SM0707	Provision of Helicopter Services	\$ -	\$ -	\$ 13,555,000.00	\$ -	\$ -	\$ 13,555,000.00	7,400
SM0710	Supply and Maintenance of various IT Equipment	\$ -	\$ 2,000,000.00	\$ -	\$ -	\$ -	\$ 2,000,000.00	500
SM0713	Provision of Geotechnical Investigation Services	\$ -	\$ 2,000,000.00	\$ -	\$ -	\$ -	\$ 2,000,000.00	6,400
	Subtotals Service Packages:	\$ -	\$ 17,261,600.00	\$ 62,803,843.75	\$ -	\$ -	\$ 80,065,443.75	589,850
ZZ0999	Unallocated	\$ -	\$ -	\$ 16,288,572.40	\$ -	\$ -	\$ 16,288,572.40	50,000
Grand Total		\$ 621,120,720.71	\$ 1,405,082,580.23	\$ 1,791,485,397.13	\$ 389,547,229.67	\$ 76,555,244.54	\$ 4,283,791,172.28	13,750,949