

**From:** georgechehab@lowerchurchillproject.ca  
**Sent:** Tuesday, November 5, 2013 5:05 PM  
**To:** edbush@lowerchurchillproject.ca  
**Subject:** Fw: MWH Meeting on Wednesday CORRECT VERSION - New Data  
**Attachments:** Major Packages Presentation - October 31, 2013.ppt; FFC Sep 2013 (Paul Kennedy).xlsx; Major Package Status Report - Oct 31, 2013 Costed rev1.xlsx

FYI

**George Chehab**  
Lead Cost Controller  
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Lower Churchill Project  
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w. [muskratfalls.nalcorenergy.com](http://muskratfalls.nalcorenergy.com)

You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

----- Forwarded by George Chehab/LCP/NLHydro on 11/05/2013 05:05 PM -----

**From:** Paul Kennedy/NLHydro  
**To:** George Chehab/LCP/NLHydro@NLHYDRO,  
**Cc:** Jason Kean/NLHydro@NLHydro, Lance Clarke/NLHydro@NLHydro  
**Date:** 11/05/2013 04:39 PM  
**Subject:** Re: Fw: MWH Meeting on Wednesday CORRECT VERSION - New Data

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George /Lance /Jason,

I have revamped the Power Point to show where we are relative to having actuals (bids in/award data) versus CCB numbers as a %. 100% for SOBI and 73% for us.



Major Packages Presentation - October 31, 2013.ppt

Below is the Cost Report by George with an extra column to show the 20 + Packages with Bid Tab numbers / Award Pending numbers. This shows the 73% number for us (see footnotes on bottom). Note these Bid Tabs are sensitive.



FFC Sep 2013 (Paul Kennedy).xlsx

**Paul Kennedy**  
Senior Contract Coordinator (Consultant)  
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George Chehab---11/05/2013 03:26:42 PM---Guys i have adjusted the major packages report costed showing packages (in yellow ) that were mixed

From: George Chehab/LCP/NLHydro  
To: Paul Kennedy/NLHydro@NLHYDRO,  
Cc: Jason Kean/NLHydro@NLHYDRO, Lance Clarke/NLHydro@NLHYDRO  
Date: 11/05/2013 03:26 PM  
Subject: Re: Fw: MWH Meeting on Wednesday CORRECT VERSION

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Guys

i have adjusted the major packages report costed showing packages (in yellow ) that were mixed with other packages (this will reduce the overall overrun)

cheers



Major Package Status Report - Oct 31, 2013 Costed rev1.xlsx

**George Chehab**  
Lead Cost Controller  
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You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

Paul Kennedy---11/05/2013 02:54:13 PM---Folks, Please use this email.

From: Paul Kennedy/NLHydro  
To: Jason Kean/NLHydro@NLHydro, Lance Clarke/NLHydro@NLHydro,  
Cc: George Chehab/LCP/NLHydro@NLHYDRO  
Date: 11/05/2013 02:54 PM  
Subject: Fw: MWH Meeting on Wednesday CORRECT VERSION

---

Folks,

Please use this email.

**Paul Kennedy**  
**Senior Contract Coordinator (Consultant)**  
**PROJECT DELIVERY TEAM**  
**Lower Churchill Project**  
t. 709 737-4215  
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----- Forwarded by Paul Kennedy/NLHydro on 11/05/2013 02:50 PM -----

From: Paul Kennedy/NLHydro  
To: Lance Clarke/NLHydro@NLHydro, Jason Kean/NLHydro@NLHydro,  
Date: 11/05/2013 02:08 PM  
Subject: Fw: MWH Meeting on Wednesday

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Lance,

Based on our discussions this morning I have prepared the following data for you and Jason to review. Cost data (DG3 vs FFC) is being generated by George Chehab.

Power Point Presentation (shows a screen print of the 17 major packages and their current procurement status, plus a status of the SOBI Packages, and our Major Procurement Packages here at Torbay Road).

[attachment "Major Packages Presentation - October 31, 2013.ppt" deleted by George Chehab/LCP/NLHydro]

Next Excel Spreadsheet shows the Current Procurement Status of the 17 Major Packages (this is the screen included in PP presentation)

[[attachment "Major Package Status Report - Oct 31, 2013.xlsx" deleted by George Chehab/LCP/NLHydro]

Next Excel Spreadsheet shows the Current Procurement Status of the 17 Major Packages but with **costed data** from George Chehab report. As discussed this data needs more analysis and shouldn't be used in the Procurement Update section.

[attachment "Major Package Status Report - Oct 31, 2013 Costed.xlsx" deleted by George Chehab/LCP/NLHydro]

Final Spreadsheet is the one from Project Controls - George Chehab (with some extra comments/data sorts by me)

[attachment "FFC Sep 2013 (Paul Kennedy).xlsx" deleted by George Chehab/LCP/NLHydro]

**Paul Kennedy**

Senior Contract Coordinator (Consultant)

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----- Forwarded by Paul Kennedy/NLHydro on 11/05/2013 01:38 PM -----

From: Lance Clarke/NLHydro

To: Paul Kennedy/NLHydro,

Date: 11/04/2013 01:00 PM

Subject: Fwd: MWH Meeting on Wednesday

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Paul

Please see below and make sure SOBI data is aligned with the rest of the project.

Rgds

Begin forwarded message:

**From:** "Jason Kean" <[JasonKean@lowerchurchillproject.ca](mailto:JasonKean@lowerchurchillproject.ca)>  
**Date:** 3 November, 2013 1:52:45 PM NST  
**To:** "Lance Clarke" <[LanceClarke@lowerchurchillproject.ca](mailto:LanceClarke@lowerchurchillproject.ca)>  
**Subject:** Fw: MWH Meeting on Wednesday

Lance,

I note that the tables for SOBI and EPCM packages are separate and look quite different - does send a good message re integration.

Plus the tables includes key information re should be produced by Project Controls to align with FFC - Paul and George need to talk.

Jason

**Jason R. Kean, P. Eng., MBA, PMP**  
**Deputy General Project Manager**  
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**You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?**

----- Forwarded by Jason Kean/NLHydro on 11/03/2013 01:51 PM -----

**From:** James Meaney/NLHydro  
**To:** Paul Harrington/NLHydro@NLHydro, Lance Clarke/NLHydro@NLHydro, Gilbert Bennett/NLHydro@NLHydro, Jason Kean/NLHydro@NLHydro,  
**Date:** 11/02/2013 10:29 AM  
**Subject:** Fw: MWH Meeting on Wednesday

Hi Folks

See correspondence below with Alison. She's definitely on our side with this one. Some guidance as to what and how we need to approach Wednesday's presentation. I will pass along any further updates Alison provides (particularly on #4). Key to success on Weds is we overwhelm them with hard facts, data, etc in a professional and calm manner so as to discredit Rey and Pyper's "outlandish" views in front of Canada.

Lance, just to make sure Paul Kennedy is working off the right list for #6, here it is (see

Material Contracts Matrix tab)

(See attached file: LCP Material Contract Analysis for FLG (Oct 2013).xlsx)

Let me know if you have any questions or need further clarification.

Regards

Jim

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**James Meaney, CFA**  
General Manager Finance  
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You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

----- Forwarded by James Meaney/NLHydro on 11/02/2013 10:13 AM -----

From: "Manzer, Alison" <[amanzer@casselsbrock.com](mailto:amanzer@casselsbrock.com)>  
To: "[JamesMeaney@nalcorenergy.com](mailto:JamesMeaney@nalcorenergy.com)" <[JamesMeaney@nalcorenergy.com](mailto:JamesMeaney@nalcorenergy.com)>  
Date: 11/01/2013 10:42 PM  
Subject: Re: MWH Meeting on Wednesday

Looks good on a BlackBerry glance - will read more carefully in the morning and send any comments. Hoping this puts an end to the nonsense.

Sent from my BlackBerry 10 smartphone on the Rogers network.

**From:** [JamesMeaney@nalcorenergy.com](mailto:JamesMeaney@nalcorenergy.com)  
**Sent:** Friday, November 1, 2013 9:07 PM  
**To:** Manzer, Alison  
**Subject:** MWH Meeting on Wednesday

Hi Alison

Thanks for all your feedback today. I have the LCP team lined up for a full day session next Wednesday in St John's. In addition to yourself, Pyper, Rey and Jim Loucks (via phone or video), could you let me know who else will be attending from Team Canada. Will need to make necessary arrangements for meeting room, food, etc. As discussed, the Nalcor/LCP team will be well prepared with the facts and appropriate data charts. No matter how outlandish the statements from MWH/BF may get, we'll keep our cool and demonstrate our professionalism and expertise, particularly for the benefit of the Govt Canada folks.

With respect to the key topics we'll address that day, I noted the following based on our discussions/correspondence today:

#### 1) Project Capital Cost Update

- This will include data/discussion on contingency estimate

#### 2) Astaldi / Contract CH0007

- We'll demonstrate the robust and thorough evaluation process that was conducted for the CH0007 contract and also provide context for the factors that ultimately led to the selection of Astaldi.
- We'll prepare a package of information for MWH that addresses James Loucks inquiry below. As part of the presentation we'll also try address some of the points he's raised at a "higher" level.

#### 3) Critical Path / Milestone Achievement

- We'll demonstrate that to date the project is on schedule, highlighting some of the achievements relating to mass excavation, RCC dams, award of long lead time contracts (eg. T&G, SOBI), etc as well as an assessment of critical path / key milestones that lie ahead in order to achieve in-service.
- Hopefully the call with Tom Chudy on Monday will address most if not all of MWH's concerns, and if there's any outstanding items we'll try to address on Wednesday.

#### 4) North Spur

- You had mentioned we need to address the o/s items on the "green list" relating to this matter. This appears to be item #1 from the Oct 31 version which states "Table 2-1 is incomplete and MWH is awaiting a response from Nalcor as to the matters set out therein."  
**This section/table does not exist in the July 12 version of the IE report which we have. Could**

**someone please send this updated section/table to me so we know exactly what's being requested?**

#### 5) Hydrology/Water Management

- I think it would be valuable to "reground" Rey and Pyper in the fact that HQ's motion is challenging continuous energy with CF, not water management with MF. I will ask Gilbert to lead this discussion (again). The concern they seem to be raising assumes that NL's water management legislation, and the terms of the water management agreement that were established by the NL PUB would not be in place. This issue was not addressed by the HQ challenge.
- In light of the above, we need to demonstrate that the model runs found in the updated Hatch study take into consideration the "worst case" with respect to P50 power production. Have I got that right?

#### 6) Update on Key Contract - for the 17 material contracts we have identified provide a status update chart, including:

- Award date (if applicable)
- If not awarded, procurement status update (eg. RFP issued, bids being evaluated, yet to be issued, etc.) + expected award date
- Date of expected substantial completion
- DG3 estimated cost
- Awarded cost
- Revised estimate (if different than DG3 estimate or award value)

#### 7) Status update on Green Items from O/S Items Checklist

- We will strive to get as many addressed as possible before Wednesday, and for those that remain, outline a plan to get them completed by week's end

If you think I have missed or misinterpreted anything, please let me know. I want to make sure we put these issues to bed next Weds once and for all, and drive on to a satisfactory IE report by Nov 15.

Thanks

Jim

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----- Forwarded by James Meaney/NLHydro on 11/01/2013 09:35 PM -----

From: "Manzer, Alison" <[amanzer@casselsbrock.com](mailto:amanzer@casselsbrock.com)>  
 To: "[JamesMeaney@nalcorenergy.com](mailto:JamesMeaney@nalcorenergy.com)" <[JamesMeaney@nalcorenergy.com](mailto:JamesMeaney@nalcorenergy.com)>  
 Date: 11/01/2013 07:22 PM  
 Subject: FW: LOWER CHURCHILL; NALCOR; SCHEDULE CONFERENCE CALL WITH NALCOR; Nalcor-MWH CPM Call - Monday [IWOV-Legal.FID1640195]

More flavour for what you have to have ready for Wednesday.

Apparently there are some pretty extreme statement being made right now – I really really want a smooth professional fully fact and chart backed meting - please!



**Alison Manzer**  
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**From:** James Loucks [<mailto:James.L.Loucks@mwhglobal.com>]  
**Sent:** Friday, November 01, 2013 5:50 PM  
**To:** Manzer, Alison; Reynold Hokenson

**Cc:** Celeste Christensen; Mary Edwards; Nalcor Energy IE & O&M

**Subject:** RE: LOWER CHURCHILL; NALCOR; SCHEDULE CONFERENCE CALL WITH NALCOR; Nalcor-MWH CPM Call - Monday [IWOV-Legal.FID1640195]

Alison, Based on a discussion that I had with Rey today, MWH would like to make a request to secure Nalcor's evaluation with regards to tenders on CH0007. While we understand that Nalcor is preparing a high level presentation in regards to contractor selection on CH007, MWH would like to review the specific documentation that evaluates the bidders on a total cost basis inclusive of performance, experience, quality, cost, safety, claims history, etc. criteria.

Additionally, MWH would like to see backup or contract dialogue that explains the "labor productivity" adder (\$200-300M) that the apparent low bidder has negotiated into the contract. In order for MWH to adequately comment on the likelihood for potential significant cost overruns in CH0007, MWH requires understanding as to what mechanisms or measurements will be enforced by Nalcor to mitigate this expense. Without additional backup, a reasonable conclusion is that the full impact of the adder will be incurred as a project cost.

I apologize for the late notice of this request and appreciate your facilitation.

Thanks,,  
Jim Loucks

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# Major Packages Overview – 31 Oct 2013

Boundless Energy



Package #	Package Title	Award Date	Expected Award Date	Procurement Status	Est. Substantially Completion Date
CH0007	Construction of Intakes & Powerhouse, Spillway and Transition Dams	24-Sep-13		LNTP Signed	2017
CD0501	Supply and Install of Converters and Cable Transition Compounds		20-Dec-13	Bids in - Evaluation Continues	Q2 2017
CT0327	Construction of 350 kV HVdc Transmission Line - Section 1 (MF to SOBI to Deer Lake 610 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017
CT0319	Construction of 315 kV Hvac Transmission Line (MF to CF)		Q4 2013	Bids in - Evaluation Continues	Q3 2016
CT0346	Construction of 350 kV HVdc Transmission Line - Section 2 (Central & Eastern NL 470 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017
CH0030	Supply and Install Turbines and Generators	2-Jan-13			2017
CD0502	Construction of AC Substation and Synchronous Condensers Facilities		31-Mar-14	RFP closes Nov 27	Q3 2016
CH0024-001	Construction of Reservoir Clearing - North and South Banks (was formally CH0023 & CH0024)	25-Apr-13			Q4 2016
CH0009	Construction of North and South Dams	24-Sep-13		Scope included in CH0007	2017
SH0018	Provision of Catering, Housekeeping & Janitorial Services (MF)		29-Nov-13	Bids in - Evaluation Continues	2017
CH0006-001	Construction of Bulk Excavation Works	6-Nov-12			Q4 2013
CH0002-001	Supply and Install Accommodations Complex Buildings	22-Oct-12			Q1 2014
CH0032	Supply and Install of Powerhouse Hydro-Mechanical Equipment	31-Oct-13			2018
LC-SB-003	Submarine Cable Design, Supply and Install	29-Nov-12			Q3 2016
SM0714	Engineering, Procurement and Construction Management (EPCM) Services	1-Feb-11			N/A
PH0014	Supply of Generator Step-up Transformers		29-Nov-13	Bids in - Evaluation Continues	Q4 2016
PH0016	Supply of Generator Circuit Breakers		27-Nov-13	Bids in - Evaluation Continues	Q1 2017

# Status of Remaining Major Packages

- Number of Packages – 110
  - Number of Packages Awarded – 67
  - Number of Packages Started Procurement Process – 39
  - Number of Packages to Start Procurement Process – 4
- 73% of Total Expected Spend has been Awarded or Bid Data has been received

# Status of SOBI Major Packages

- Number of Packages – 21
  - Number of Packages Awarded – 16
  - Number of Packages Started Procurement Process – 5
  - Number of Packages to Start Procurement Process – 0
- 100% of Total Expected Spend has been Awarded or Bid Data has been received

Package	Description	BUDGET			FORECAST						Approved Changes Details	FFC comments	
		OCB	Approved Changes	CCB	Commitments (1)	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
CD0501	Supply and Install Converters and Cable Transition Compounds											* Transfer of [redacted] from CD502 for per diem * Transfer of [redacted] to CD0503 for 30,000 M3 of granular fill 300mm * Transfer of [redacted] from CD502 for ac breakers for MF and SP * PCN # 112 = [redacted] for geotechnical investigation at MF * Transfer of [redacted] to SM0709 for Air transportation * Transfer of [redacted] from CD502 for the supply of ac breakers for MF and SP * Transfer of [redacted] from SM0705 for Lab services of the LTA and LITL	Trend Details: [redacted] for external fireproofing [redacted] remaining earthworks at MF site
CD0502	Construction of AC Substations											* Transfer of [redacted] from SM0705 for Lab services of LTA and LITL * Transfer of [redacted] to CD534 for SyC civil and Mech. Works * Transfer of [redacted] to CD501/CD503/CD0534 for per diem * Transfer of [redacted] to CD0503 for 78,000 M3 of granular fill 300mm * Transfer of [redacted] from PD0537 for dry type tranfos * Transfer of [redacted] to merge PD0505 to CD0502 as EPC contract * Transfer of [redacted] to CD501 for ac breakers for MF and SP * Transfer of [redacted] to CD0534 for installing the auto transformers * Transfer of [redacted] to SM0709 for Air transportation * PCN # 163 = [redacted] to pass from EPCM to EPC contract * Transfer of [redacted] for the SST scope from PD0537 * PCN # 145 = [redacted] for new control and protection building at CF SY	Trend Details: [redacted] due to reduction in the size of SP and CF SY [redacted] for additional equipments in the ac substations due to the requirements of Revenue & Statistical Metering [redacted] for fire protection [redacted] for H&S requirements at Sp site
CD0503	Construction of Earthworks at Various Power Distribution Sites											* Transfer of [redacted] from SM0705 for Lab services of LTA and LITL * PCN # 62 = [redacted] for Removing the FP scope from CD0503 * Transfer of [redacted] to CD503 for per diem * Transfer of [redacted] from CD0501 and CD0502 for 108,000 M3 of granular fill 300mm * Transfer of [redacted] to CT0341 for clearing the CF SY	Trend Details: [redacted] for re-routing of 13.8 kV line [redacted] reduction due to latest bids and RFA
CD0508	Supply and Install of Electrode Sites	30,324,143	30,845	30,354,988	0	0	3,700,000	30,354,988	34,054,988	3,730,845	* Transfer of 0.06 M to SM0709 for Air transportation * Transfer of 0,1 M from SM0705 for Lab services of LITL	Trend Details: 1.8 M for additional cost from increase in breakwater length at electrode sites 1.9 M for access roads	
CD0509	Construction Telecommunication Services - Phase 2	13,992,843	-1,713,250	12,279,593	1,913,354	0	-650,000	10,366,239	11,629,593	-2,363,250	* Transfer of 273 K to SD0560 for satellite services for 12 month * Transfer of 1.44 M to SD0560 for fibrew optic based service	Trend Details: (0.65) M for change in contract strategy, cancel the phones in dorms, adding WIFI	
CD0510	Supply and Install Permanent Communication Systems	25,940,730	0	25,940,730	0	0	0	25,940,730	25,940,730	0			
CD0512	Construction power facilities	9,222,116	4,169,000	13,391,116	10,697,951	3,173,770	0	0	13,871,721	4,649,605	* Approved scope change increase of 835 K for Medical services, CF accommodations, and MF change in scope * Site restoration of the North Spur after excavation works for 134 K * PCN #165 = 3.2 M for Construction power extra claims		
CD0534	Supply and Install Soldiers Pond Synchronous Condensers											* Transfer of [redacted] from CD502 for SyC civil and Mech. Works * Transfer of [redacted] from CD502 for per diem * Transfer of [redacted] from CD0502 for installing the auto transformers * Transfer of [redacted] from SM0705 for Lab services * PCN # [redacted] for change to EPC strategy	Trend Details: [redacted] for increasing the Syn condenser capacity to 175 MVAR
CD0535	Construction Telecommunication Services - Phase 2 Remote Camps	7,035,756	-7,035,756	0	0	0	0	0	0	-7,035,756	Cancel and Transfer of the contract to SD0560		
CD0538	Accommodation camp ( CF)	17,839,372	-9,774,717	8,064,655	4,772,964	0	546,171	2,802,520	8,121,655	-9,717,717	Transfer of 9.8 M to SD0564 for the camp services at CF	Trend Details: 0.5 M growth 0.05 M : land lease	
CD0566	Supply of Construction power	0	4,000,000	4,000,000	0	0	-659,609	4,000,000	3,340,391	3,340,391	* PCN # 138 = 4 M for Construction power at various sites	Trend Details: (0.7) M reduction due to latest bids	
CH0002	Accommodation Complex Building	66,895,398	83,209,226	150,104,623	145,420,479	628,833	5,776,877	0	151,826,189	84,930,791	* PCN #119 = 45,1 M to cover a low estimate * Transfer of 1 M for the clinic building to CH0003 * Transfer of 0.3 M as accommodation costs to CH0006 * Transfer of 16,5 M of the utilities budget CH0005 * PCN #158 = 22.9 M additional funds to execute CH0005 scope	Trend Details: 7.8 M remaining Growth on awarded contract 1,55 M to finish descoped items for Construction power and changes in design (4) M saving on the installation cost, less hours could be required 0.35 M to transfer to CH0002 for the fibre optic installation	
CH0003	Administrative Buildings	8,652,347	7,625,244	16,277,591	14,356,662	105,358	1,985,643	0	16,447,663	7,795,316	* PCN # 66 = 5 M to cover a new sport complex * Transfer of 4,3 M from SM0705 for Laboratory Building * Transfer of 0,5 M for HVGB offices SM0703 * Transfer of 1 M from CH0002 for the clinic building * Transfer of 3 M to ZZ9999 for the operation of the Sports complex * Transfer of 0.23 M to PH0053 and CH0004 for office relocation and washcars	Trend Details: 1.5 M for remaining growth 0.5 M for increase in staff office requirements	
CH0004	Southside Access Road	35,154,532	13,222,241	48,376,773	49,045,617	354,352	2,934,357	1,964,754	54,299,080	19,144,548	* Transfer of 1,2 M for several scope like well drilling, snow clearing, pad for camp * PCN #196 = 12 M for Caroline brook resource road upgrade	Trend Details: 2.6 M available growth (0.7) M Descoping 1 M for the variance between 25% of the Claim of 25 M and 2.6 available growth	
CH0005	Accommodation Complex Site utilities	18,577,209	-18,577,209	0	0	0	0	0	0	-18,577,209	* Transfer of 1,6 M to PH0053 for pumps, generator , sewage treatment plant * Transfer of 0,5 M to CH0004 for wells drilling * Transfer of 16,5 M of the remaining utility budget to CH0002		

Package	Description	BUDGET			FORECAST							Approved Changes Details	FFC comments
		OCB	Approved Changes	CCB	Commitments (1)	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
CH0006	Bulk excavation works	139,882,885	2,880,997	142,763,882	123,541,741	15,943,179	7,754,735	0	147,239,655	7,356,770	* Transfer of 0.6 M for Spillway D/S cofferdam removal to CH0009 * Transfer of 0.8 M for one year of snow clearing from SH0021 * Transfer of 2.4 M for one year of ground transportation from SH0041 * Transfer of 0.3 M as accommodation costs to CH0006	Trend Details: 1 M available growth 0.5 M for sand layer for winter protection (1) M credit for over excavation 6 M for 25% of 25 M of claims related to public protest and poor road condition and additional travel Assumptions: * 7.75 M for 25% of 30 M of claims related to public protest and poor road condition and additional travel * 1 M for additional funds required related to SPO impact for extra work * 1 M to cover extra growth and lower credit for over excavation	
CH0007	Construction of Intake and Powerhouse, Spillway and Transition Dams	751,987,716	23,330,520	775,318,236	0	0	342,506,314	775,318,235	1,117,824,549	365,836,833	* Transfer of 8.1 M from SH0021 for snow clearing and road maintenance * Transfer of 6.1 M from CH0009 for south transition dam structure * Transfer of 9.8 to CH0032 for secondary concrete of intake and PH * Transfer of 9.2 M to CH0009 for cofferdams scope transfer * Transfer of 10.1 M from CH0031 for electro-mechanical embedments * PCN # 58 = 7.6 M for the discharge channel * PCN # 55 = 1.9 M for the spillway lower level gates - civil * PCN # 137 = 20.9 M for the change to diversion timeline (indirect impact) * Transfer of 12.2 M to SM0709 for air transportation	Trend Details: 29.2 M growth (42.8) M for the amendment related to North Spur and Dams 291.8 M to align with the bid price 64.3 M for the LMAX provision	
CH0008	Construction of North Spur Stabilization Works	66,427,162	1,050,919	67,478,081	20,800	0	5,570,000	67,478,081	73,068,881	6,641,719	* PCN # 84 = 0.3 M for Re-routing of construction power at North spur * PCN # 141 = 1.4 M for additional stabilization works * Transfer of 0.65 M to SM0709 for air transportation	Trend Details: 0.8 M for security issues at the North Spur 0.4 M for additional clearing at the NS laydown area 4.3 M Revised quantities after geotechnical latest results (20% more)	
CH0009	Construction of North and South Dams										* Transfer of [redacted] from CH0006 for Spillway D/S cofferdam removal * Transfer of [redacted] to CH0007 for south transition dam structure * Transfer of [redacted] from CH0007 for cofferdams scope transfer * PCN # [redacted] for the RCC dam stepped spillway design change * Transfer of [redacted] to SM0709 for air transportation	Trend Details: [redacted] for reducing the thickness of the RCC crest	
CH0023	Reservoir clearing South	90,551,215	-90,551,215	0	0	0	0	0	0	-90,551,215	* Transfer of 90.5 M to CH0024 for merging the 2 packages		
CH0024	Reservoir clearing North	57,310,625	90,551,215	147,861,840	129,170,400	0	2,000,000	0	131,170,400	73,859,775	* Transfer of 90.5 M from CH0023 for merging the 2 packages	Trend Details: 2 M growth	
CH0030	Turbine and generators										* PCN # 137 = [redacted] for the change to diversion timeline (schedule impact)	Trend Details: [redacted] growth	
CH0031	Supply and Install Mechanical and Electrical Auxiliaries (MF)										* Transfer of [redacted] to CH0032 for electrical and mechanical aux works * Transfer of [redacted] to CH0007 for electro-mechanical embedments * Transfer of [redacted] to PH0035 for Station service transformers * Transfer of [redacted] to SM0709 for air transportation		
CH0032	Supply and Install Powerhouse Hydro-Mechanical Equipment										* Transfer of [redacted] from CH0031 for electrical and mechanical aux works * Transfer of [redacted] to merge CH0046 with CH0032 * Transfer of [redacted] to CH0032 for secondary concrete of intake and PH * PCN # 55 = [redacted] for the spillway lower level gates - mechanical * Transfer of [redacted] to SM0709 for air transportation	Trend Details: 45.5 M growth 26.7 M to align with the bid price	
CH0033	Supply and Install Powerhouse Cranes										* Transfer of [redacted] to SM0709 for air transportation	Trend Details: [redacted] reduction in the rated capacity of the cranes	
CH0034	Supply and Install Powerhouse Elevator	808,729	-16,420	792,309	0	0	0	792,309	792,309	-16,420	* Transfer of 0.016 M to SM0709 for air transportation		
CH0039	Supply and Install McKenzie River Permanent Bridge	2,654,965	-49,260	2,605,705	0	0	0	2,605,705	2,605,705	-49,260	* Transfer of 0.05 M to SM0709 for air transportation		
CH0046	Spillway Hydraumechanical equipment										* Transfer of [redacted] to merge CH0046 with CH0032		
CH0048	Site Clearing Access Road and Ancillary										Transfer of [redacted] from CT0354 for the clearing of the Hvac marshalling yard		
CH0049	Supply and Install Log Booms	8,260,217	0	8,260,217	0	0	0	8,260,217	8,260,217	0			
CH0052	Construction of Habitat Compensation Works	11,304,315	0	11,304,315	0	0	4,625,000	11,304,315	15,929,315	4,625,000		Trend Details: 4.6 M to cover the quantity excess and the wet lands omitted budget	
CH0062	Offsite roads and bridges	0	48,000	48,000	48,000	0	0	0	48,000	48,000	* PCN # 106 = 0.05 M for demonstration pad		
CT0319	Construction of 315 kV Hvac Transmission Line (MF to CF)	204,427,902	151,150	204,579,052	0	0	55,461,934	204,579,052	260,040,986	55,613,084	* Transfer of 2.5 M to CT0354 for Marshalling yard * PCN #93 = 1.7 M for the variation of the 735 kv lines length due to final location of CF SY * PCN # 70 = (0,15) M for Re-routing Hvac line outside corridor at lower brook * Transfer of 1.05 M from SM0705 for Lab services of LTA	Trend Details: 20 M for increase in weight 30 M to align with bid price related to poor productivity and market conditions 5.5 M Growth	
CT0327	Construction of 350 kV HVdc Transmission Line - Section 1	392,729,526	96,839,491	489,569,017	0	0	2,607,800	489,569,017	492,176,817	99,447,291	* Transfer of 97 M for merging CT0343 to CT0327 * Transfer of 3.6 M to CT0354/CT0355 for Marshalling yard * PCN # 91 = 0,15 M for ADSS cable on wood pole electrode lines * PCN # 96 = 7,8 M for Re-routing HVdc line next to MF access road * PCN # 100 = (1,4) M for reoptimization of HVdc conductor * Transfer of 4.4 M to SM0709 for Air transportation * Transfer of 1.4 M from SM0705 for Lab services of LITL	Trend Details: 2.6 M for geotechnical studies	
CT0341	Clearing of ROW Hvac TL	30,703,771	286,000	30,989,771	29,748,054	53,072	3,431,156	0	33,232,282	2,528,510	* Transfer of 0.15 M from CD0503 for the clearing of the SY at CF * PCN #93 = 0,3 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 3.4 M growth	
CT0342	Construction of AC Transmission Lines - Island	14,134,585	16,069	14,150,654	0	0	474,638	14,150,654	14,625,292	490,707	* PCN # 91 = 0,1 M for ADSS cable on wood pole electrode lines * Transfer of 0.9 M to SM0709 for Air transportation	Trend Details: 0.1 M for additional fiber for pole line from MF TAP to tower 16 0.37 M for transposition of 230 kV re termination lines at SP	
CT0343	Clearing of Right-of-Way for HVdc Transmission Line - Section 1	96,975,584	-96,975,584	0	0	0	0	0	0	-96,975,584	* Transfer of 97 M for merging CT0343 to CT0327		



Package	Description	BUDGET			FORECAST							Approved Changes Details	FFC comments
		OCB	Approved Changes	CCB	Commitments (1)	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
CT0345	Clearing of Right-of-Way for HVdc Transmission Line - Section 2	57,585,444	-790,488	56,794,956	0	0	0	56,794,956	56,794,956	-790,488	* Transfer of 0.8 M to SM0709 for Air transportation	Trend Details: 0.4 M for growth	
CT0346	Construction of 350 kV HVdc Transmission Line - Section 2	187,414,391	-3,322,387	184,092,004	0	0	1,487,974	184,092,004	185,579,978	-1,834,413	* Transfer of 2 M to CT0355 for Marshalling yard * Transfer of 2.36 M to SM0709 for Air transportation * Transfer of 1.05 M from SM0705 for Lab services of LITL	Trend Details: 1,45 M for geotechnical studies	
CT0354	HVdc Marshalling Yards HVGB	0	5,094,828	5,094,828	4,838,050	18,100	168,177	500,000	5,524,327	5,524,327	* Transfer of 4 M from CT0319 /CT0327 for marshalling yard * Transfer of 0.4 M to CH0048 for clearing of Marshalling yard * PCN # 184 = 1.4 M Increase t oalign with the most recent estimate * Transfer of 0.02 M from SM0713 for geotechnical services of the marshalling yard	Trend Details: 0.17 M remaining growth	
CT0355	HVdc Marshalling Yards Island	0	4,000,000	4,000,000	0	0	4,000,000	4,000,000	8,000,000	8,000,000	* Transfer of 4 M from CT0327 /CT0346 for marshalling yard	Trend Details: 4 M to reflect the latest estimate	
PD0505	Supply of Switchyard Equipment AC Substations at CF, MF and SP										* Transfer of for merging PD0505 to CD0502 * Transfer of PD0537 for dry transformers		
PD0513	138/25 Kv Transformers	2,176,538	0	2,176,538	2,553,572	0	0	0	2,553,572	377,034			
PD0514	138 kV and 25 kV circuit breakers	204,749	0	204,749	245,100	0	0	0	245,100	40,351			
PD0515	230, 138 kV and 25 kV Disconnect switches	215,228	0	215,228	256,786	0	0	0	256,786	41,558			
PD0518	138 kV Capacitor voltage Transformers	25,876	0	25,876	24,540	0	0	0	24,540	-1,336			
PD0519	25 kV Vacuum Interruptors	142,352	0	142,352	192,462	0	0	0	192,462	50,110			
PD0520	25 kV 6x3.6 MVAR Capacitor Banks	206,881	0	206,881	245,746	0	0	0	245,746	38,865			
PD0522	Pre-fabricated control room building	822,811	0	822,811	1,153,708	0	0	0	1,153,708	330,897			
PD0523	Substation service transformer	18,204	0	18,204	18,236	0	0	0	18,236	32			
PD0529	25 kV Reclosers	62,751	0	62,751	137,644	0	0	0	137,644	74,893			
PD0530	138 kV and 25 kV surge arresters	41,254	0	41,254	41,325	0	0	0	41,325	71			
PD0531	MV Instrument transformer	55,410	0	55,410	55,512	0	0	0	55,512	102			
PD0533	Early works telecom devices	319,443	177,876	497,319	317,739	0	5,658	179,080	502,477	183,034	* PCN #126 = 0.2 M for the deployment of LMRS, additional sat phones and cell at MF		
PD0537	Supply of Power Transformers AC Substations at CF, MF and SF	31,093,446	5,723,783	36,817,229	0	0	0	36,817,229	36,817,229	5,723,783	* PCN # 67 = 5.7 M for additional spare transformers * Transfer 0.1 M for the SST scope to CD0502		
PD0561	D20 RTU & Cabinet (CF)- Construction power	50,103	0	50,103	51,349	0	0	0	51,349	1,246			
PD0562	Protection front panels (CF)	99,828	0	99,828	158,731	0	0	0	158,731	58,903			
PD0563	138 kV Circuit Switcher (CF), MV Switch	116,767	0	116,767	118,831	0	0	0	118,831	2,064			
PH0014	Supply of Generator Step-up Transformer	20,549,016	-1,180	20,547,836	0	0	0	20,547,836	20,547,836	-1,180			
PH0015	Supply of Isolated Phase Bus	1,902,522	125,000	2,027,522	0	0	0	2,027,522	2,027,522	125,000	* Transfer of 0.1 M from PH0016 for the generator surge capacitor		
PH0016	Supply of Generator Circuit Breakers	5,170,372	-125,000	5,045,372	0	0	0	5,045,372	5,045,372	-125,000	* Transfer of 0.1 M to PH0015 for the generator surge capacitor		
PH0035	Supply of Station Service Transformers	0	1,914,703	1,914,703	0	0	0	1,914,703	1,914,703	1,914,703	* Transfer of 1,9 from CH0031 for Station service transformers		
PH0036	Auxiliary transformers	474,712	0	474,712	425,346	0	100,000	0	525,346	50,634		Trend Details: 0.1 M to cover mitigation due to delays in 600 V switchgear	
PH0037	Supply of 25kV Switchgear	1,381,328	-1,381,328	0	0	0	0	0	0	-1,381,328	* Transfer of 1.4 M for scope transferred to PH0053		
PH0038	Emergency diesel generators	1,754,986	0	1,754,986	2,010,263	0	0	0	2,010,263	255,277			
PH0053	LCP Used Camp	0	18,698,831	18,698,831	18,466,587	0	214,468	0	18,681,055	18,681,055	* PCN #87 = 15.9 M for the S/I of used camp * Transfer of 2.6 M to cover scope executed by PH0053 related to	Trend Details: 0.2 M for growth to close the contract	
PH0058	600 V Switchgear	0	924,196	924,196	805,732	0	18,464	100,000	924,196	924,196	* PCN #185 = 1 M for the S/I of 600 V switchgear		
PT0300	Supply of conductors - Hvac	20,880,983	-3,248,221	17,632,762	13,521,607	0	940,000	0	14,461,607	-6,419,376	* PCN #93 = 0.3 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 1 M for growth	
PT0301	Supply of Insulators - Hvac	4,939,704	-418,910	4,520,794	2,525,575	55,675	70,604	98,735	2,750,589	-2,189,115	* PCN #93 = 0.1 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 0.1 M for growth	
PT0302	Supply of Towers - Hvac	24,434,086	-5,329,684	19,104,402	16,099,549	2,459,361	489,511	633,230	19,681,651	-4,752,435	* PCN #93 = 0.15 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 5.5 M to SM0700 for transport	Trend Details: 0.2 M for growth 0.3 M change in number of tower types	
PT0303	Supply of Hardwares - Hvac	12,835,064	-289,990	12,545,074	5,163,679	0	1,861,500	646,500	7,671,679	-5,163,385	* PCN #93 = 0.05 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 0.3 M to SM0700 for transport	Trend Details: 0.26 M for growth 1.6 M : use of IMPLO conductor fittings for 315 kV line	
PT0304	Supply of OPGW - Hvac	2,472,133	-131,790	2,340,343	1,656,543	0	73,457	97,958	1,827,958	-644,175	* PCN #93 = 0.03 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 0.1 M for growth	
PT0307	Supply of Steel tower foundations - Hvac	5,522,873	-319,685	5,203,188	4,977,959	0	509,307	0	5,487,266	-35,607	* PCN #93 = 0.04 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 0.5 M for growth	
PT0308	Supply of Steel Tower Foundations - 350 kV HVdc	24,071,995	166,475	24,238,470	0	0	300,000	24,238,470	24,538,470	466,475	* PCN # 96 = 0.2 M for Re-routing HVdc line next to MF access road	Trend Details: 0.3 M for galvanizing	
PT0326	Supply of steel wires - Hvac	2,885,849	285,000	3,170,849	3,549,411	0	178,872	0	3,728,283	842,434	* Transfer of 0.3 M from SM0700 for transport	Trend Details: 0.2 M to adjust to RFA value	
PT0328	Supply of Transmission Line Conductors - 350 kV HVdc	89,474,058	4,417,235	93,891,293	0	0	0	93,891,293	93,891,293	4,417,235	* PCN # 96 = 0.8 M for Re-routing HVdc line next to MF access road * PCN # 100 = 3.6 M for reoptimization of HVdc conductor		
PT0329	Supply of HVdc Insulators - 350 kV HVdc	52,513,276	-1,710,186	50,803,090	21,429,765	0	1,827,216	0	23,256,981	-29,256,295	* PCN # 96 = 0.4 M for Re-routing HVdc line next to MF access road * Transfer of 2.2 M to SM0700 for transport * PCN # 191 = 0.1 M for Change in the number of electrode insulators for HVdc	Trend Details: 1.9 M for growth	
PT0330	Supply of Steel Towers - 350 kV HVdc	63,048,979	-10,679,536	52,369,443	0	0	852,238	52,369,444	53,221,682	-9,827,297	* PCN # 96 = 0.6 M for Re-routing HVdc line next to MF access road * PCN # 100 = (2) M for reoptimization of HVdc conductor * PCN # 99 = (0.15) M for reduction in HVdc tower type * PCN # 156 = 0.3 M for change in step Bolt size * PCN # 147 = 0.3 M for HVdc "B" tower design change * Transfer of 9.7 M to SM0700 for freight transport	Trend Details: (0.15) M saving as per the RFA value and bid received 1 M: low temperatur steel	
PT0331	Supply of Tower Hardware - 350 kV HVdc	6,867,096	5,138,434	12,005,530	0	0	0	12,005,530	12,005,530	5,138,434	* Transfer of 0.4 M to PT0356 for dampers * Transfer of 5.5 M from PT0352 for guy wires hardwares		
PT0334	Supply of Steel Wires - 350 kV HVdc	1,914,335	1,848,100	3,762,435	0	0	0	3,762,435	3,762,435	1,848,100	* Transfer of 1.85 M from PT0352 for guy wires hardwares		

Package	Description	BUDGET			FORECAST							Approved Changes Details	FFC comments
		OCB	Approved Changes	CCB	Commitments (1)	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
PT0335	Supply of Anchor Materials - 315 kV HVac	1,988,073	1,240,077	3,228,150	1,398,518	0	0	1,829,632	3,228,150	1,240,077	* PCN # 142 = 1.4 M for galvanizing, bracing and clarification from suppliers * Transfer of 0,15 M to SM0700 for transport		
PT0336	Supply of 25 kv Hardware	497,042	0	497,042	573,063	0	0	0	573,063	76,021			
PT0337	Supply of 25 kV ADSS	467,173	0	467,173	384,438	0	0	0	384,438	-82,735			
PT0338	Supply of 25 kV Conductors	344,111	0	344,111	315,378	0	0	0	315,378	-28,733			
PT0339	Supply of 25 kV Insulators	65,096	0	65,096	65,493	0	0	0	65,493	397			
PT0340	Supply of poles for 138/25 kV	391,185	0	391,185	403,699	0	0	0	403,699	12,514			
PT0351	Supply of Wood Poles	477,982	0	477,982	0	0	0	477,982	477,982	0			
PT0352	Supply of Anchor Materials - 350 kV HVdc	22,878,411	-7,914,734	14,963,677	0	0	-2,118,217	14,963,677	12,845,460	-10,032,951	* PCN # 96 = 0,1 M for Re-routing HVdc line next to MF access road * Transfer of 7.4 M to PT0334 and PT0331 for guy wires * Transfer of 0.7 M to SM0700 for transportation	Trend Details: (2.1) M to align with the RFA of 12.1 M and 0.6 M freight transfer to SM0700	
PT0353	Supply of Optical Ground Wire (OPGW) - 350 kV HVdc	4,285,092	363,650	4,648,742	0	0	0	4,648,742	4,648,742	363,650	* PCN # 96 = 0,1 M for Re-routing HVdc line next to MF access road * PCN # 91 = 0,25 M for ADSS wood pole electrode line		
PT0356	Supply of Dampers-HVdc	0	396,250	396,250	0	0	0	396,250	396,250	396,250	* Transfer of 0,4 M from PT0331 for dampers		
SD0536	Provision of Integrated Commissioning Support Services	16,141,864	-21,094	16,120,770	0	0	0	16,120,770	16,120,770	-21,094	* Transfer of 0.02 M to SM0709 for Air transportation		
SD0560	Provision of earlt works and starter camp telecom (MF)	312,456	7,418,938	7,731,394	997,824	0	0	6,733,571	7,731,395	7,418,939	* PCN #126 = 0,2 M for the deployment of LMRS, additional sat phones and cell at MF * Transfer of 1,4 M from CD0509 for fibre optic based services * Transfer of 0,3 M from CD0509 for satellite services for 12 month * Transfer of 0,4 M from CD0535 Cancel of CD0510 and transfer of contract to SD0560		
SD0564	CF camp services	103,824	9,759,162	9,862,986	0	0	0	9,862,986	9,862,986	9,759,162	Transfer of 9.8 M from CD0538 for the camp services at CF		
SD0565	Marine Geo-tech electrode	0	380,000	380,000	267,445	2,275	110,280	0	380,000	380,000	* PCN # 68 = 0,4 M for investigation at electrode sites of soil conditions	Trend Details: 0.1 M for growth	
SD0567	Installation of geodetic control survey	0	158,368	158,368	39,179	0	5,000	0	44,179	44,179	* PCN # 168 = 0,15 M for geodetic survey		
SH0001	Physical hydraulic model	723,100	0	723,100	723,100	0	0	0	723,100	0			
SH0018	Provision of Catering, Housekeeping and Janitorial Services (MF)	122,708,010	-11,932,067	110,775,943	0	0	26,025,000	110,775,943	136,800,943	14,092,933	* Transfer of 0,6 M to SM0714 for early works accommodations * Transfer of 11.3 M to SH0054 for temporary site services at MF	Trend Details: 26 M for growth	
SH0019	Security services	24,344,663	8,708,750	33,053,413	24,350,509	10,500	4,135,775	1,500,000	29,996,784	5,652,121	Transfer of 1.8 M for H&S measures and items to unallocated budget * PCN # 153 = 9 M for Impact of the Collective agreement * PCN # 137 = 1.5 M for the change to diversion timeline (additional security)	Trend Details: 1.9 M for the security at North Spur 1.8 M for additional fire watch personnel for 8 months 0.4 M growth	
SH0020	Medical services	20,822,244	2,500,000	23,322,244	18,365,822	0	-45,767	1,500,000	19,820,055	-1,002,189	* PCN # 153 = 1 M for Impact of Collective agreement * PCN # 137 = 1.5 M for the change to diversion timeline (additional medical)		
SH0021	Provision of Road Maintenance and Snow Clearing Services (MF)	9,152,021	-9,152,021	0	0	0	0	0	0	-9,152,021	* Transfer of 9,2 M to CH0004/CH0006/CH0007 for snow clearing		
SH0022	Provision of Fuel Supply and Dispensing Services (MF)	841,507	1,018,620	1,860,127	0	0	0	1,860,127	1,860,127	1,018,620	* Transfer of 1 M from SM0700 for the diesel consumption at the C4 marshalling yard		
SH0040	Provision of Garbage Removal and Disposal Services (MF)	2,860,484	-446,186	2,414,298	0	0	0	2,414,298	2,414,298	-446,186	* Transfer of 0,7 M to SH0054 for temporary site services at MF * PCN # 137 = 0.25 M for the change to diversion timeline (additional scope)		
SH0041	Provision of Ground Transportation Services (HVGB to MF)	14,041,433	-1,267,136	12,774,297	0	0	0	12,774,297	12,774,297	-1,267,136	* Transfer of 2,5 M to CH0006/SH0054 for ground transportation * PCN # 137 = 1.3 M for the change to diversion timeline (additional scope)		
SH0051	Provision of Buildings Maintenance Services (MF)	26,266,704	-10,346,768	15,919,936	0	0	0	15,919,936	15,919,936	-10,346,768	* Transfer of 5.5 M to ZZ9999 for power consumption at MF * Transfer of 7.25 M to SH0054 for temporary site services at MF * PCN # 137 = 2.4 M for the change to diversion timeline (additional scope)		
SH0054	Temporary site Services	0	19,524,098	19,524,098	9,956,209	9,533,753	0	34,136	19,524,098	19,524,098	Transfer of 19.5 M from several service packages to create a temporary site services package		
SH0066	Hydraulic Model-North dam	0	400,000	400,000	358,670	0	0	41,330	400,000	400,000	* PCN # 109 = 0,4 M for RCC dam physical hydraulic model study		
SM0700	Provision of General Freight Forwarding Services	10,790,840	21,758,097	32,548,937	4,471,583	-710,413	0	28,787,766	32,548,936	21,758,096	* Transfer of 22.7 M from various transmission line procurement packages for transport * Transfer of 1 M to SH0022 for the diesel consumption at the C4 Yard		
SM0701	3rd party quality surveillance and inspection	4,678,795	0	4,678,795	4,528,000	0	1,150,795	0	5,678,795	1,000,000		Trend Details: 1.15 M growth	
SM0703	HVGB project offices	532,356	-532,356	0	0	0	0	0	0	-532,356	* Transfer of 0,5 M to CH0003 for office set up at MF		
SM0704	Surveying services	14,671,329	8,123,512	22,794,841	22,503,197	0	434,175	0	22,937,372	8,266,043	* PCN # 153 = 5.6 M for Impact of Collective agreement * PCN # 178 = 2.5 M for Additional OT costs	Trend Details: 0.4 M for growth	
SM0705	Provision of Laboratory Services	34,069,577	-11,250,491	22,819,086	0	0	0	22,819,086	22,819,086	-11,250,491	* Transfer of 4,3 M to CH0003 for laboratory building * Transfer of 0,9 M to SM0713 for laboratory services until september * PCN # 153 = 0.4 M for Impact of Collective agreement * 5.3 M transferred to several C3 and C4 packages for Lab services * Transfer of 1.13 M to SM0709 for air transportation		
SM0706	Supply and Maintenance of Project Vehicles	3,527,896	0	3,527,896	0	0	0	3,527,896	3,527,896	0			
SM0707	Provision of Helicopter Services	15,294,565	-180,000	15,114,565	0	0	0	15,114,565	15,114,565	-180,000	* Transfer of 0,2 M to SM0713 for helicopter costs changed to trail access		
SM0709	Air transportation services	0	30,796,531	30,796,531	0	0	0	30,796,531	30,796,531	30,796,531	* Transfer of 30.8 M from various packages for air transport		
SM0710	IT Equipments	2,155,286	-2,155,286	0	0	0	0	0	0	-2,155,286	* Transfer of 1 M to SM0714 to S/I IT equipment * Transfer of 1,15 to contingency		
SM0713	2012 Field geotechnical investigations	2,108,854	624,602	2,733,456	2,318,160	0	705,614	56,226	3,080,000	971,146	* PCN #159 = 0,3 M for replacing the helicopter hours by access roads * Transfer of 0,9 M from SM0705 for laboratory works until september 2013 * PCN # 73 = (0,8) M for scope reduction * PCN # 181 = 0.3 M for cost growth due to archeological monitoring	Trend Details: 0.7 M Additional funds required for low productivity and stand by time	

Package	Description	BUDGET			FORECAST							Approved Changes Details	FFC comments
		OCB	Approved Changes	CCB	Commitments (1)	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
SM0714	Provision of EPCM Services	370,945,192	-11,626,486	359,318,706	194,031,032	0	0	165,287,674	359,318,706	-11,626,486	* Transfer of 1 M from SM0710 to S/I IT equipment * Transfer of 0,6 M from SH0018 for early works accommodations * PCN #137 = 10 M for the change to diversion timeline in MF * PCN# 163 = (23.2) M to change CD0502 and CD0534 from EPCM to EPC contract		
ST0309	Provision of Geotechnical Investigation Services - 315 kV HVac	956,750	0	956,750	0	0	-956,750	956,750	0	-956,750		Trend Details: (0.95) M : to be transferred to construction packages	
ST0310	Provision of Geotechnical Investigation Services - 350 kV HVdc	4,018,074	35,000	4,053,074	0	0	-4,053,074	4,053,074	0	-4,018,074	* PCN # 96 = 0,05 M for Re-routing HVdc line next to MF access road	Trend Details: (4) M to merge the geotechnical services with the construction contracts	
ST0311	Provision of Survey Services - 315 kV HVac	0	1,231,674	1,231,674	952,335	0	247,665	31,674	1,231,674	1,231,674	* PCN # 171 = 1.2 M Budget for Survey services * PCN # 168 = 0.03 M for installation of Geodetic survey control network	Trend Details: 0.25 M : Growth	
ST0312	Provision of Survey Services - 350 kV HVdc	0	2,900,000	2,900,000	0	0	0	2,900,000	2,900,000	2,900,000	* PCN # 171 = 2.9 M Budget for Survey services		
	SOBI	352,014,204	3,458,951	355,473,155	355,473,155	0	-34,500,000	0	320,973,155	-31,041,049	* PCN # 62 = 3.5 M for Removing the FP scope from CD0503	Trend Details: (17) M : saving on the fiber optics contract (17.5) m: saving on the overall rock quantity to cover the cable	
XX0001													
XX0002	Other scope of work	89,433,563	-36,451,994	52,981,569	52,981,569	0	0	0	52,981,569	-36,451,994	* PCN# 67 = (36.5) M for he reduction at Holyrood		
XX0003	Environmental approval	29,337,207	175,000	29,512,207	29,512,207	0	0	0	29,512,207	175,000	PCN #181 = 0.17 M for archeological monitoring		
XX0004	Historical data	186,086,201	0	186,086,201	179,760,253	0	0	0	179,760,253	-6,325,948			
XX0005	Owner cost	269,995,144	10,250,000	280,245,144	280,245,144	0	0	0	280,245,144	10,250,000	* Transfer of 0.25 m from SH0019 for the fire truck * PCN #137 = 10 M for change in diversion timeline		
ZZ0999	Unallocated budget	10,815,244	10,043,923	20,859,167	0	0	0	20,859,167	20,859,167	10,043,923	Transfer of 1.8 M from SH0019 for H&S mesures and items to unallocated budget * Transfer of 5.5 M to ZZ9999 for power consumption at MF * Transfer to owner's cost of 250 K for the purchase of fire truck * Transfer of 3 M from CH0003 for the operation of the sports complex		
		<b>5,834,640,146</b>	<b>210,769,973</b>	<b>6,045,410,120</b>	<b>1,971,614,342</b>	<b>31,627,815</b>	<b>515,182,381</b>	<b>3,923,836,009</b>	<b>6,442,260,546</b>	<b>607,620,400</b>			
XX0006	Contingency	367,852,397	-210,769,973	89,494,034	0	0	0	89,494,034	89,494,034	-278,358,363			
<b>TOTAL</b>		<b>6,202,492,543</b>	<b>0</b>	<b>6,134,904,154</b>	<b>1,971,614,342</b>	<b>31,627,815</b>	<b>515,182,381</b>	<b>4,013,330,043</b>	<b>6,531,754,580</b>	<b>329,262,037</b>			

Package	Description	BUDGET			FORECAST								Approved Changes Details	FFC comments
		OCB	Approved Changes	CCB	Commitments (1)	Preliminary Bid Tab/Award Pending	Outstanding Changes (2)	Trends (3)	Unawarded Scope (4)	FFC 6=1+2+3+4+5	FFC - OCB (7)			
CD0501	Supply and Install Converters and Cable Transition Compounds	433,082,673	7,890,019	440,972,692	266,102	600,000,000	0	6,301,250	440,672,692	447,240,044	14,157,371	* Transfer of 5.8 M from CD502 for per diem * Transfer of 0.9 M to CD0503 for 30,000 M3 of granular fill 300mm * Transfer of 1.6 M from CD502 for ac breakers for MF and SP PCN # 112 = 0.3 M for geotechnical investigation at MF * Transfer of 1.9 M to SM0709 for Air transportation * Transfer of 2.25 M from CD502 for the supply of ac breakers for MF and SP * Transfer of 0.7 M from SM0705 for Lab services of the LTA and LITL	Trend Details: 4.3 M for external fireproofing 2 M for remaining earthworks at MF site	
CD0502	Construction of AC Substations	153,849,604	100,590,459	254,440,063	0		0	-15,492,722	254,440,064	238,947,342	85,097,738	* Transfer of 0.55 M from SM0705 for Lab services of LTA and LITL * Transfer of 22.7 M to CD534 for SyC civil and Mech. Works * Transfer of 12.2 M to CD501/CD503/CD0534 for per diem * Transfer of 2.37 M to CD0503 for 78,000 M3 of granular fill 300mm * Transfer of 0.64 M from PD0537 for dry type tranfos * Transfer 97.49 M to merge PD0505 to CD0502 as EPC contract * Transfer of 3.85 M to CD501 for ac breakers for MF and SP * Transfer of 1.4 M to CD0534 for installing the auto transformers * Transfer of 3.6 M to SM0709 for Air transportation * PCN # 163 = 47.5 M to pass from EPCM to EPC contract * Transfer 0.15 M for the SST scope from PD0537 * PCN # 145 = 0.4 M for new control and protection building at CF SY	Trend Details: (21.4) M due to reduction in the size of SP and CF SY 0.9 M for additional equipments in the ac substations due to the requirements of Revenue & Statistical Metering 3 M for fire protection 2 M for H&S requirements at Sp site	
CD0503	Construction of Earthworks at Various Power Distribution Sites	67,511,852	4,295,527	71,807,379	0	55,000,000	0	-9,282,541	71,807,379	62,524,838	-4,987,014	* Transfer of 0.2 M from SM0705 for Lab services of LTA and LITL * PCN # 62 = (3.5) M for Removing the FP scope from CD0503 * Transfer of 4.3 M to CD503 for per diem * Transfer of 3.27 M from CD0501 and CD0502 for 108,000 M3 of granular fill 300m * Transfer of 0.05 K to CT0341 for clearing the CF SY	Trend Details: 0.5 M for re-routing of 13.8 kV line (9.7) M reduction due to latest bids and RFA	
CD0508	Supply and Install of Electrode Sites	30,324,143	30,845	30,354,988	0		0	3,700,000	30,354,988	34,054,988	3,730,845	* Transfer of 0.06 M to SM0709 for Air transportation * Transfer of 0.1 M from SM0705 for Lab services of LITL	Trend Details: 1.8 M for additional cost from increase in breakwater length at electrode sites 1.9 M for access roads	
CD0509	Construction Telecommunication Services - Phase 2	13,992,843	-1,713,250	12,279,593	1,913,354		0	-650,000	10,366,239	11,629,593	-2,363,250	* Transfer of 273 K to SD0560 for satellite services for 12 month * Transfer of 1.44 M to SD0560 for fibrew optic based service	Trend Details: (0.65) M for change in contract strategy, cancel the phones in dorms, adding WIFI (0.35) M to transfer to CH0002 for the fibre optic installation	
CD0510	Supply and Install Permanent Communication Systems	25,940,730	0	25,940,730	0		0	0	25,940,730	25,940,730	0			
CD0512	Construction power facilities	9,222,116	4,169,000	13,391,116	10,697,951		3,173,770	0	0	13,871,721	4,649,605	* Approved scope change increase of 835 K for Medical services, CF accommodations, and MF change in scope * Site restoration of the North Spur after excavation works for 134 K * PCN #165 = 3.2 M for Construction power extra claims		
CD0534	Supply and Install Soldiers Pond Synchronous Condensers	80,678,443	34,855,286	115,533,729	0		0	4,000,000	115,533,729	119,533,729	38,855,286	* Transfer of 22.7 M from CD502 for SyC civil and Mech. Works * Transfer of 2.1 M from CD502 for per diem * Transfer of 1.4 M from CD0502 for installing the auto transformers * Transfer of 0.6 M from SM0705 for Lab services * PCN # 148 = 8.4 M for change to EPC strategy	Trend Details: 4 M for increasing the Syn condenser capacity to 175 MVAR	
CD0535	Construction Telecommunication Services - Phase 2 Remote Camps	7,035,756	-7,035,756	0	0		0	0	0	0	-7,035,756	Cancel and Transfer of the contract to SD0560		
CD0538	Accommodation camp ( CF )	17,839,372	-9,774,717	8,064,655	4,772,964		0	546,171	2,802,520	8,121,655	-9,717,717	Transfer of 9.8 M to SD0564 for the camp services at CF	Trend Details: 0.5 M growth 0.05 M : land lease	
CD0566	Supply of Construction power	0	4,000,000	4,000,000	0		0	-659,609	4,000,000	3,340,391	3,340,391	* PCN # 138 = 4 M for Construction power at various sites	Trend Details: (0.7) M reduction due to latest bids	
CH0002	Accommodation Complex Building	66,895,398	83,209,226	150,104,623	145,420,479		628,833	5,776,877	0	151,826,189	84,930,791	* PCN #119 = 45.1 M to cover a low estimate * Transfer of 1 M for the clinic building to CH0003 * Transfer of 0.3 M as accommodation costs to CH0006 * Transfer of 16.5 M of the utilities budget CH0005 * PCN #158 = 22.9 M additional funds to execute CH0005 scope	Trend Details: 7.8 M remaining Growth on awarded contract 1.55 M to finish descoped items for Construction power and changes in design (4) M saving on the installation cost, less hours could be required 0.35 M to transfer to CH0002 for the fibre optic installation	
CH0003	Administrative Buildings	8,652,347	7,625,244	16,277,591	14,356,662		105,358	1,985,643	0	16,447,663	7,795,316	* PCN # 66 = 5 M to cover a new sport complex * Transfer of 4.3 M from SM0705 for Laboratory Building * Transfer of 0.5 M for HVGB offices SM0703 * Transfer of 1 M from CH0002 for the clinic building * Transfer of 3 M to ZZ9999 for the operation of the Sports complex * Transfer of 0.23 M to PH0053 and CH0004 for office relocation and washcars	Trend Details: 1.5 M for remaining growth 0.5 M for increase in staff office requirements	
CH0004	Southside Access Road	35,154,532	13,222,241	48,376,773	49,045,617		354,352	2,934,357	1,964,754	54,299,080	19,144,548	* Transfer of 1.2 M for several scope like well drilling, snow clearing, pad for camp * PCN #196 = 12 M for Caroline brook resource road upgrade	Trend Details: 2.6 M available growth (.0.7) M Descoping 1 M for the variance between 25% of the Claim of 25 M and 2.6 available growth	
CH0005	Accommodation Complex Site utilities	18,577,209	-18,577,209	0	0		0	0	0	0	-18,577,209	* Transfer of 1.6 M to PH0053 for pumps, generator, sewage treatment plant * Transfer of 0.5 M to CH0004 for wells drilling * Transfer of 16.5 M of the remaining utility budget to CH0002		
CH0006	Bulk excavation works	139,882,885	2,880,997	142,763,882	123,541,741		15,943,179	7,754,735	0	147,239,655	7,356,770	* Transfer of 0.6 M for Spillway D/S cofferdam removal to CH0009 * Transfer of 0.8 M for one year of snow clearing from SH0021 * Transfer of 2.4 M for one year of ground transportation from SH0041 * Transfer of 0.3 M as accommodation costs to CH0006	Trend Details: 1 M available growth 0.5 M for sand layer for winter protection (1) M credit for over excavation 6 M for 25% of 25 M of claims related to public protest and poor road condition and additional travel Assumptions: * 7.75 M for 25% of 30 M of claims related to public protest and poor road condition and additional travel * 1 M for additional funds required related to SPO impact for extra work * 1 M to cover extra growth and lower credit for over excavation	

CH0007	Construction of Intake and Powerhouse, Spillway and Transition Dams	751,987,716	23,330,520	775,318,236	0	1,100,000,000	0	342,506,314	775,318,235	1,117,824,549	365,836,833	* Transfer of 8,1 M from SH0021 for snow clearing and road maintenance * Transfer of 6,1 M from CH0009 for south transition dam structure * Transfer of 9,8 to CH0032 for secondary concrete of intake and PH * Transfer of 9,2 M to CH0009 for cofferdams scope transfer * Transfer of 10,1 M from CH0031 for electro-mechanical embedments * PCN # 58 = 7,6 M for the discharge channel * PCN # 55 = 1,9 M for the spillway lower level gates - civil * PCN # 137 = 20.9 M for the change to diversion timeline (indirect impact) * Transfer of 12.2 M to SM0709 for air transportation	Trend Details: 29.2 M growth (42.8) M for the amendment related to North Spur and Dams 291.8 M to align with the bid price 64.3 M for the LMAX provision
CH0008	Construction of North Spur Stabilization Works	66,427,162	1,050,919	67,478,081	20,800		0	5,570,000	67,478,081	73,068,881	6,641,719	* PCN # 84 = 0,3 M for Re-routing of construction power at North spur * PCN # 141 = 1,4 M for additional stabilization works * Transfer of 0.65 M to SM0709 for air transportation	Trend Details: 0.8 M for security issues at the North Spur 0.4 M for additional clearing at the NS laydown area 4.3 M Revised quantities after geotechnical latest results (20% more)
CH0009	Construction of North and South Dams	127,689,866	-6,800,851	120,889,015	0		0	-2,900,000	120,889,015	117,989,015	-9,700,851	* Transfer of 0.6 M from CH0006 for Spillway D/S cofferdam removal * Transfer of 6,1 M to CH0007 for south transition dam structure * Transfer of 9,2 M from CH0007 for cofferdams scope transfer * PCN # 109 = (9) M for the RCC dam stepped spillway design change * Transfer of 1.5 M to SM0709 for air transportation	Trend Details: (3) M for reducing the thickness of the RCC crest
CH0023	Reservoir clearing South	90,551,215	-90,551,215	0	0		0	0	0	0	-90,551,215	* Transfer of 90.5 M to CH0024 for merging the 2 packages	
CH0024	Reservoir clearing North	57,310,625	90,551,215	147,861,840	129,170,400		0	2,000,000	0	131,170,400	73,859,775	* Transfer of 90.5 M from CH0023 for merging the 2 packages	Trend Details: 2 M growth
CH0030	Turbine and generators	205,387,347	2,000,000	207,387,347	168,584,862		0	19,006,009	2,000,000	189,590,870	-15,796,477	* PCN # 137 = 2 M for the change to diversion timeline (schedule impact)	Trend Details: 19 M growth
CH0031	Supply and Install Mechanical and Electrical Auxiliaries (MF)	101,096,139	-16,258,377	84,837,762	0		0	0	84,837,762	84,837,762	-16,258,377	* Transfer of 3,2 M to CH0032 for electrical and mechanical aux works * Transfer of 10,1 M to CH0007 for electro-mechanical embedments * Transfer of 1,9 to PH0035 for Station service transformers * Transfer of 1.1 M to SM0709 for air transportation	
CH0032	Supply and Install Powerhouse Hydro-Mechanical Equipment	104,242,075	73,633,628	177,875,703	0	225,000,000	0	72,247,427	177,875,703	250,123,130	145,881,055	* Transfer of 3,2 M from CH0031 for electrical and mechanical aux works * Transfer of 52,9 to merge CH0046 with CH0032 * Transfer of 9,8 to CH0032 for secondary concrete of intake and PH * PCN # 55 = 8,5 M for the spillway lower level gates - mechanical * Transfer of 0.76 M to SM0709 for air transportation	Trend Details: 45.5 M growth 26.7 M to align with the bid price
CH0033	Supply and Install Powerhouse Cranes	9,564,462	-77,995	9,486,467	0	9,000,000	0	-1,000,000	9,486,467	8,486,467	-1,077,995	* Transfer of 0.08 M to SM0709 for air transportation	Trend Details: (1) M : reduction in the rated capacity of the cranes
CH0034	Supply and Install Powerhouse Elevator	808,729	-16,420	792,309	0		0	0	792,309	792,309	-16,420	* Transfer of 0.016 M to SM0709 for air transportation	
CH0039	Supply and Install McKenzie River Permanent Bridge	2,654,965	-49,260	2,605,705	0		0	0	2,605,705	2,605,705	-49,260	* Transfer of 0.05 M to SM0709 for air transportation	
CH0046	Spillway Hydraulomechanical equipment	52,899,185	-52,899,185	0	0		0	0	0	0	-52,899,185	* Transfer of 52,9 to merge CH0046 with CH0032	
CH0048	Site Clearing Access Road and Ancillary	3,635,203	390,555	4,025,758	8,010,028		0	0	0	8,010,028	4,374,825	Transfer of 0.4 M from CT0354 for the clearing of the Hvac marshalling yard	
CH0049	Supply and Install Log Booms	8,260,217	0	8,260,217	0		0	0	8,260,217	8,260,217	0		
CH0052	Construction of Habitat Compensation Works	11,304,315	0	11,304,315	0		0	4,625,000	11,304,315	15,929,315	4,625,000		Trend Details: 4.6 M to cover the quantity excess and the wet lands omitted budget
CH0062	Offsite roads and bridges	0	48,000	48,000	48,000		0	0	0	48,000	48,000	* PCN # 106 = 0,05 M for demonstration pad	
CT0319	Construction of 315 kV Hvac Transmission Line (MF to CF)	204,427,902	151,150	204,579,052	0	250,000,000	0	55,461,934	204,579,052	260,040,986	55,613,084	* Transfer of 2.5 M to CT0354 for Marshalling yard * PCN #93 = 1,7 M for the variation of the 735 kv lines length due to final location of CF SY * PCN # 70 = (0,15) M for Re-routing Hvac line outside corridor at lower brook * Transfer of 1.05 M from SM0705 for Lab services of LTA	Trend Details: 20 M for increase in weight 30 M to align with bid price related to poor productivity and market conditions 5.5 M Growth
CT0327	Construction of 350 kV HVdc Transmission Line - Section 1	392,729,526	96,839,491	489,569,017	0		0	2,607,800	489,569,017	492,176,817	99,447,291	* Transfer of 97 M for merging CT0343 to CT0327 * Transfer of 3,6 M to CT0354/CT0355 for Marshalling yard * PCN # 91 = 0,15 M for ADSS cable on wood pole electrode lines * PCN # 96 = 7,8 M for Re-routing HVdc line next to MF access road * PCN # 100 = (1,4) M for reoptimization of HVdc conductor * Transfer of 4.4 M to SM0709 for Air transportation * Transfer of 1.4 M from SM0705 for Lab services of LITL	Trend Details: 2,6 M for geotechnical studies
CT0341	Clearing of ROW Hvac TL	30,703,771	286,000	30,989,771	29,748,054		53,072	3,431,156	0	33,232,282	2,528,510	* Transfer of 0.15 M from CD0503 for the clearing of the SY at CF * PCN #93 = 0,3 M for the variation of the 735 kv lines length due to final location of CF SY	Trend Details: 3.4 M growth
CT0342	Construction of AC Transmission Lines - Island	14,134,585	16,069	14,150,654	0		0	474,638	14,150,654	14,625,292	490,707	* PCN # 91 = 0,1 M for ADSS cable on wood pole electrode lines * Transfer of 0.9 M to SM0709 for Air transportation	Trend Details: 0.1 M for additional fiber for pole line from MF TAP to tower 16 0.37 M for transposition of 230 kV re termination lines at SP
CT0343	Clearing of Right-of-Way for HVdc Transmission Line - Section 1	96,975,584	-96,975,584	0	0		0	0	0	0	-96,975,584	* Transfer of 97 M for merging CT0343 to CT0327	
CT0345	Clearing of Right-of-Way for HVdc Transmission Line - Section 2	57,585,444	-790,488	56,794,956	0		0	0	56,794,956	56,794,956	-790,488	* Transfer of 0.8 M to SM0709 for Air transportation	Trend Details: 0.4 M for growth
CT0346	Construction of 350 kV HVdc Transmission Line - Section 2	187,414,391	-3,322,387	184,092,004	0		0	1,487,974	184,092,004	185,579,978	-1,834,413	* Transfer of 2 M to CT0355 for Marshalling yard * Transfer of 2,36 M to SM0709 for Air transportation * Transfer of 1.05 M from SM0705 for Lab services of LITL	Trend Details: 1,45 M for geotechnical studies
CT0354	Hvac Marshaling Yards HVGB	0	5,094,828	5,094,828	4,838,050		18,100	168,177	500,000	5,524,327	5,524,327	* Transfer of 4 M from CT0319/CT0327 for marshalling yard * Transfer of 0.4 M to CH0048 for clearing of Marshalling yard * PCN # 184 = 1.4 M Increase to align with the most recent estimate * Transfer of 0.02 M from SM0713 for geotechnical services of the marshalling yard	Trend Details: 0.17 M remaining growth
CT0355	HVdc Marshaling Yards Island	0	4,000,000	4,000,000	0		0	4,000,000	4,000,000	8,000,000	8,000,000	* Transfer of 4 M from CT0327 /CT0346 for marshalling yard	Trend Details: 4 M to reflect the latest estimate
PD0505	Supply of Switchyard Equipment AC Substations at CF, MF and SP	98,321,259	-98,321,259	0	0		0	0	0	0	-98,321,259	* Transfer of 97.5 M for merging PD0505 to CD0502 * Transfer of 0.8 M to PD0537 for dry transformers	
PD0513	138/25 Kv Transformers	2,176,538	0	2,176,538	2,553,572		0	0	0	2,553,572	377,034		
PD0514	138 kV and 25 kV circuit breakers	204,749	0	204,749	245,100		0	0	0	245,100	40,351		
PD0515	230, 138 kV and 25 kV Disconnect switches	215,228	0	215,228	256,786		0	0	0	256,786	41,558		
PD0518	138 kV Capacitor voltage Transformers	25,876	0	25,876	24,540		0	0	0	24,540	-1,336		
PD0519	25 kV Vacuum Interruptors	142,352	0	142,352	192,462		0	0	0	192,462	50,110		
PD0520	25 kV 6x3.6 MVAR Capacitor Banks	206,881	0	206,881	245,746		0	0	0	245,746	38,865		
PD0522	Pre-fabricated control room building	822,811	0	822,811	1,153,708		0	0	0	1,153,708	330,897		
PD0523	Substation service transformer	18,204	0	18,204	18,236		0	0	0	18,236	32		
PD0529	25 kV Reclosers	62,751	0	62,751	137,644		0	0	0	137,644	74,893		
PD0530	138 kV and 25 kV surge arresters	41,254	0	41,254	41,325		0	0	0	41,325	71		
PD0531	MV Instrument transformer	55,410	0	55,410	55,512		0	0	0	55,512	102		

PD0533	Early works telecom devices	319,443	177,876	497,319	317,739			0	5,658	179,080	502,477	183,034	* PCN #126 = 0,2 M for the deployment of LMRS, additional sat phones and cell at MF	
PD0537	Supply of Power Transformers AC Substations at CF, MF and SP	31,093,446	5,723,783	36,817,229	0	39,400,000		0	0	36,817,229	36,817,229	5,723,783	* PCN # 67 = 5.7 M for additional spare transformers * Transfer 0.1 M for the SST scope to CD0502 * Transfer of 0,7 M to CD0502 for dry type tranfos	
PD0561	D20 RTU & Cabinet (CF) - Construction power	50,103	0	50,103	51,349			0	0	0	51,349	1,246		
PD0562	Protection front panels (CF)	99,828	0	99,828	158,731			0	0	0	158,731	58,903		
PD0563	138 kV Circuit Switcher (CF), MV Switcher	116,767	0	116,767	118,831			0	0	0	118,831	2,064		
PH0014	Supply of Generator Step-up Transformer	20,549,016	-1,180	20,547,836	0	13,800,000		0	0	20,547,836	20,547,836	-1,180		
PH0015	Supply of Isolated Phase Bus	1,902,522	125,000	2,027,522	0			0	0	2,027,522	2,027,522	125,000	* Transfer of 0,1 M from PH0016 for the generator surge capacitor	
PH0016	Supply of Generator Circuit Breakers	5,170,372	-125,000	5,045,372	0	1,700,000		0	0	5,045,372	5,045,372	-125,000	* Transfer of 0,1 M to PH0015 for the generator surge capacitor	
PH0035	Supply of Station Service Transformers	0	1,914,703	1,914,703	0			0	0	1,914,703	1,914,703	1,914,703	* Transfer of 1,9 from CH0031 for Station service transformers	
PH0036	Auxiliary transformers	474,712	0	474,712	425,346			0	100,000	0	525,346	50,634		Trend Details: 0.1 M to cover mitigation due to delays in 600 V switchgear
PH0037	Supply of 25kV Switchgear	1,381,328	-1,381,328	0	0			0	0	0	0	-1,381,328	* Transfer of 1.4 M for scope transferred to PH0053	
PH0038	Emergency diesel generators	1,754,986	0	1,754,986	2,010,263			0	0	0	2,010,263	255,277		
PH0053	LCP Used Camp	0	18,698,831	18,698,831	18,466,587			0	214,468	0	18,681,055	18,681,055	* PCN #87 = 15,9 M for the S/I of used camp * Transfer of 2,6 M to cover scope executed by PH0053 related to CH0004,CH0005,PH0037	Trend Details: 0.2 M for growth to close the contract
PH0058	600 V Switchgear	0	924,196	924,196	805,732			0	18,464	100,000	924,196	924,196	* PCN #185 = 1 M for the S/I of 600 V switchgear	
PT0300	Supply of conductors - Hvac	20,880,983	-3,248,221	17,632,762	13,521,607			0	940,000	0	14,461,607	-6,419,376	* PCN #93 = 0,3 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 3,5 M to SM0700 for transport	Trend Details: 1 M for growth
PT0301	Supply of Insulators - Hvac	4,939,704	-418,910	4,520,794	2,525,575			55,675	70,604	98,735	2,750,589	-2,189,115	* PCN #93 = 0,1 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 0,5 M to SM0700 for transport	Trend Details: 0.1 M for growth
PT0302	Supply of Towers - Hvac	24,434,086	-5,329,684	19,104,402	16,099,549			2,459,361	489,511	633,230	19,681,651	-4,752,435	* PCN #93 = 0,15 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 5,5 M to SM0700 for transport	Trend Details: 0.2 M for growth 0.3 M change in number of tower types
PT0303	Supply of Hardwares - Hvac	12,835,064	-289,990	12,545,074	5,163,679			0	1,861,500	646,500	7,671,679	-5,163,385	* PCN #93 = 0,05 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 0,3 M to SM0700 for transport	Trend Details: 0.26 M for growth 1.6 M : use of IMPLO conductor fittings for 315 kv line
PT0304	Supply of OPGW - Hvac	2,472,133	-131,790	2,340,343	1,656,543			0	73,457	97,958	1,827,958	-644,175	* PCN #93 = 0,03 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 0,16 M to SM0700 for transport	Trend Details: 0.1 M for growth
PT0307	Supply of Steel tower foundations - Hvac	5,522,873	-319,685	5,203,188	4,977,959			0	509,307	0	5,487,266	-35,607	* PCN #93 = 0,04 M for the variation of the 735 kv lines length due to final location of CF SY * Transfer of 0,4 M to SM0700 for transport * PCN # 130 = 0,06 M for Foundation corrosion protection	Trend Details: 0.5 M for growth
PT0308	Supply of Steel Tower Foundations - 350 kV HVdc	24,071,995	166,475	24,238,470	0	19,000,000		0	300,000	24,238,470	24,538,470	466,475	* PCN # 96 = 0,2 M for Re-routing HVdc line next to MF access road	Trend Details: 0.3 M for galvanizing
PT0326	Supply of steel wires - Hvac	2,885,849	285,000	3,170,849	3,549,411			0	178,872	0	3,728,283	842,434	* Transfer of 0,3 M from SM0700 for transport	Trend Details: 0.2 M to adjust to RFA value
PT0328	Supply of Transmission Line Conductors - 350 kV HVdc	89,474,058	4,417,235	93,891,293	0	48,000,000		0	0	93,891,293	93,891,293	4,417,235	* PCN # 96 = 0,8 M for Re-routing HVdc line next to MF access road * PCN # 100 = 3,6 M for reoptimization of HVdc conductor	
PT0329	Supply of HVdc Insulators - 350 kV HVdc	52,513,276	-1,710,186	50,803,090	21,429,765			0	1,827,216	0	23,256,981	-29,256,295	* PCN # 96 = 0,4 M for Re-routing HVdc line next to MF access road * Transfer of 2,2 M to SM0700 for transport * PCN # 191 = 0,1 M for Change in the number of electrode insulators for HVdc	Trend Details: 1.9 M for growth
PT0330	Supply of Steel Towers - 350 kV HVdc	63,048,979	-10,679,536	52,369,443	0	47,000,000		0	852,238	52,369,444	53,221,682	-9,827,297	* PCN # 96 = 0,6 M for Re-routing HVdc line next to MF access road * PCN # 100 = (2) M for reoptimization of HVdc conductor * PCN # 99 = (0,15) M for reduction in HVdc tower type * PCN # 156 = 0,3 M for change in step Bolt size * PCN # 147 = 0,3 M for HVdc "B" tower design change * Transfer of 9.7 M to SM0700 for freight transport	Trend Details: (0.15) M saving as per the RFA value and bid received 1 M: low temperatur steel
PT0331	Supply of Tower Hardware - 350 kV HVdc	6,867,096	5,138,434	12,005,530	0			0	0	12,005,530	12,005,530	5,138,434	* Transfer of 0,4 M to PT0356 for dampers * Transfer of 5.5 M from PT0352 for guy wires hardwares	
PT0334	Supply of Steel Wires - 350 kV HVdc	1,914,335	1,848,100	3,762,435	0	9,500,000		0	0	3,762,435	3,762,435	1,848,100	* Transfer of 1.85 M from PT0352 for guy wires hardwares	
PT0335	Supply of Anchor Materials - 315 kV HVac	1,988,073	1,240,077	3,228,150	1,398,518			0	0	1,829,632	3,228,150	1,240,077	* PCN # 142 = 1,4 M for galvanizing, bracing and clarification from suppliers * Transfer of 0,15 M to SM0700 for transport	
PT0336	Supply of 25 kv Hardware	497,042	0	497,042	573,063			0	0	0	573,063	76,021		
PT0337	Supply of 25 kv ADSS	467,173	0	467,173	384,438			0	0	0	384,438	-82,735		
PT0338	Supply of 25 kv Conductors	344,111	0	344,111	315,378			0	0	0	315,378	-28,733		
PT0339	Supply of 25 kv Insulators	65,096	0	65,096	65,493			0	0	0	65,493	397		
PT0340	Supply of poles for 138/25 kv	391,185	0	391,185	403,699			0	0	0	403,699	12,514		
PT0351	Supply of Wood Poles	477,982	0	477,982	0			0	0	477,982	477,982	0		
PT0352	Supply of Anchor Materials - 350 kV HVdc	22,878,411	-7,914,734	14,963,677	0	12,000,000		0	-2,118,217	14,963,677	12,845,460	-10,032,951	* PCN # 96 = 0,1 M for Re-routing HVdc line next to MF access road * Transfer of 7.4 M to PT0334 and PT0331 for guy wires * Transfer of 0,7 M to SM0700 for transportation	Trend Details: (2.1) M to align with the RFA of 12.1 M and 0.6 M freight transfer to SM0700
PT0353	Supply of Optical Ground Wire (OPGW) - 350 kV HVdc	4,285,092	363,650	4,648,742	0	9,700,000		0	0	4,648,742	4,648,742	363,650	* PCN # 96 = 0,1 M for Re-routing HVdc line next to MF access road * PCN # 91 = 0,25 M for ADSS wood pole electrode line	
PT0356	Supply of Dampers-HVdc	0	396,250	396,250	0	1,300,000		0	0	396,250	396,250	396,250	* Transfer of 0,4 M from PT0331 for dampers	
SD0536	Provision of Integrated Commissioning Support Services	16,141,864	-21,094	16,120,770	0			0	0	16,120,770	16,120,770	-21,094	* Transfer of 0.02 M to SM0709 for Air transportation	
SD0560	Provision of earlt works and starter camp telecom (MF)	312,456	7,418,938	7,731,394	997,824			0	0	6,733,571	7,731,395	7,418,939	* PCN #126 = 0,2 M for the deployment of LMRS, additional sat phones and cell at MF * Transfer of 1,4 M from CD0509 for fibre optic based services * Transfer of 0,3 M from CD0509 for satellite services for 12 month * Transfer of 0,4 M from CD0535 Cancel of CD0510 and transfer of contract to SD0560	
SD0564	CF camp services	103,824	9,759,162	9,862,986	0	16,600,000		0	0	9,862,986	9,862,986	9,759,162	Transfer of 9.8 M from CD0538 for the camp services at CF	
SD0565	Marine Geo-tech electrode	0	380,000	380,000	267,445			2,275	110,280	0	380,000	380,000	* PCN # 68 = 0,4 M for investigation at electrode sites of soil conditions	Trend Details: 0.1 M for growth
SD0567	Installation of geodetic control survey	0	158,368	158,368	39,179			0	5,000	0	44,179	44,179	* PCN # 168 = 0,15 M for geodetic survey	
SH0001	Physical hydraulic model	723,100	0	723,100	723,100			0	0	0	723,100	0		
SH0018	Provision of Catering, Housekeeping and Janitorial Services (MF)	122,708,010	-11,932,067	110,775,943	0	100,000,000		0	26,025,000	110,775,943	136,800,943	14,092,933	* Transfer of 0,6 M to SM0714 for early works accommodations * Transfer of 11.3 M to SH0054 for temporary site services at MF	Trend Details: 26 M for growth
SH0019	Security services	24,344,663	8,708,750	33,053,413	24,350,509			10,500	4,135,775	1,500,000	29,996,784	5,652,121	Transfer of 1.8 M for H&S measures and items to unallocated budget * PCN # 153 = 9 M for Impact of the Collective agreement * PCN # 137 = 1.5 M for the change to diversion timeline (additional security)	Trend Details: 1.9 M for the security at North Spur 1.8 M for additional fire watch personnel for 8 months 0.4 M growth
SH0020	Medical services	20,822,244	2,500,000	23,322,244	18,365,822			0	-45,767	1,500,000	19,820,055	-1,002,189	* PCN # 153 = 1 M for Impact of Collective agreement * PCN # 137 = 1.5 M for the change to diversion timeline (additional medical)	
SH0021	Provision of Road Maintenance and Snow Clearing Services (MF)	9,152,021	-9,152,021	0	0			0	0	0	0	-9,152,021	* Transfer of 9,2 M to CH0004/CH0006/CH0007 for snow clearing	

SH0022	Provision of Fuel Supply and Dispensing Services (MF)	841,507	1,018,620	1,860,127	0	3,600,000	0	0	1,860,127	1,860,127	1,018,620	* Transfer of 1 M from SM0700 for the diesel consumption at the C4 marshalling yard
SH0040	Provision of Garbage Removal and Disposal Services (MF)	2,860,484	-446,186	2,414,298	0	7,000,000	0	0	2,414,298	2,414,298	-446,186	* Transfer of 0,7 M to SH0054 for temporary site services at MF * PCN # 137 = 0.25 M for the change to diversion timeline (additional scope)
SH0041	Provision of Ground Transportation Services (HVGB to MF)	14,041,433	-1,267,136	12,774,297	0	17,000,000	0	0	12,774,297	12,774,297	-1,267,136	* Transfer of 2,5 M to CH0006/SH0054 for ground transportation * PCN # 137 = 1.3 M for the change to diversion timeline (additional scope)
SH0051	Provision of Buildings Maintenance Services (MF)	26,266,704	-10,346,768	15,919,936	0		0	0	15,919,936	15,919,936	-10,346,768	* Transfer of 5.5 M to ZZ9999 for power consumption at MF * Transfer of 7.25 M to SH0054 for temporary site services at MF * PCN # 137 = 2.4 M for the change to diversion timeline (additional scope)
SH0054	Temporary site Services	0	19,524,098	19,524,098	9,956,209		9,533,753	0	34,136	19,524,098	19,524,098	Transfer of 19.5 M from several service packages to create a temporary site services package
SH0066	Hydraulic Model-North dam	0	400,000	400,000	358,670		0	0	41,330	400,000	400,000	* PCN # 109 = 0.4 M for RCC dam physical hydraulic model study
SM0700	Provision of General Freight Forwarding Services	10,790,840	21,758,097	32,548,937	4,471,583		-710,413	0	28,787,766	32,548,936	21,758,096	* Transfer of 22.7 M from various transmission line procurement packages for transport * Transfer of 1 M to SH0022 for the diesel consumption at the C4 Yard
SM0701	3rd party quality surveillance and inspection	4,678,795	0	4,678,795	4,528,000		0	1,150,795	0	5,678,795	1,000,000	Trend Details: 1.15 M growth
SM0703	HVGB project offices	532,356	-532,356	0	0		0	0	0	0	-532,356	* Transfer of 0.5 M to CH0003 for office set up at MF
SM0704	Surveying services	14,671,329	8,123,512	22,794,841	22,503,197		0	434,175	0	22,937,372	8,266,043	Trend Details: 0.4 M for growth
SM0705	Provision of Laboratory Services	34,069,577	-11,250,491	22,819,086	0		0	0	22,819,086	22,819,086	-11,250,491	* Transfer of 4.3 M to CH0003 for laboratory building * Transfer of 0.9 M to SM0713 for laboratory services until september * PCN # 153 = 0.4 M for Impact of Collective agreement * 5.3 M transferred to several C3 and C4 packages for Lab services * Transfer of 1.13 M to SM0709 for air transportation
SM0706	Supply and Maintenance of Project Vehicles	3,527,896	0	3,527,896	0		0	0	3,527,896	3,527,896	0	
SM0707	Provision of Helicopter Services	15,294,565	-180,000	15,114,565	0		0	0	15,114,565	15,114,565	-180,000	* Transfer of 0.2 M to SM0713 for helicopter costs changed to trail access
SM0709	Air transportation services	0	30,796,531	30,796,531	0	28,000,000	0	0	30,796,531	30,796,531	30,796,531	* Transfer of 30.8 M from various packages for air transport
SM0710	IT Equipments	2,155,286	-2,155,286	0	0		0	0	0	0	-2,155,286	* Transfer of 1 M to SM0714 to S/I IT equipment * Transfer of 1.15 to contingency
SM0713	2012 Field geotechnical investigations	2,108,854	624,602	2,733,456	2,318,160		0	705,614	56,226	3,080,000	971,146	Trend Details: 0.7 M Additional funds required for low productivity and stand by time
SM0714	Provision of EPCM Services	370,945,192	-11,626,486	359,318,706	194,031,032		0	0	165,287,674	359,318,706	-11,626,486	* Transfer of 1 M from SM0710 to S/I IT equipment * Transfer of 0.6 M from SH0018 for early works accommodations * PCN #137 = 10 M for the change to diversion timeline in MF * PCN# 163 = (23.2) M to change CD0502 and CD0534 from EPCM to EPC contract
ST0309	Provision of Geotechnical Investigation Services - 315 kV HVac	956,750	0	956,750	0		0	-956,750	956,750	0	-956,750	Trend Details: (0.95) M : to be transferred to construction packages
ST0310	Provision of Geotechnical Investigation Services - 350 kV HVdc	4,018,074	35,000	4,053,074	0		0	-4,053,074	4,053,074	0	-4,018,074	Trend Details: (4) M to merge the geotechnical services with the construction contracts
ST0311	Provision of Survey Services - 315 kV HVac	0	1,231,674	1,231,674	952,335		0	247,665	31,674	1,231,674	1,231,674	Trend Details: 0.25 M : Growth
ST0312	Provision of Survey Services - 350 kV HVdc	0	2,900,000	2,900,000	0		0	0	2,900,000	2,900,000	2,900,000	* PCN # 171 = 2.9 M Budget for Survey services
XX0001	SOBI	352,014,204	3,458,951	355,473,155	355,473,155		0	-34,500,000	0	320,973,155	-31,041,049	Trend Details: (17) M : saving on the fiber optics contract (17.5) m : saving on the overall rock quantity to cover the cable
XX0002	Other scope of work	89,433,563	-36,451,994	52,981,569	52,981,569		0	0	0	52,981,569	-36,451,994	* PCN# 67 = (36.5) M for he reduction at Holyrood
XX0003	Environmental approval	29,337,207	175,000	29,512,207	29,512,207		0	0	0	29,512,207	175,000	PCN #181 = 0.17 M for archeological monitoring
XX0004	Historical data	186,086,201	0	186,086,201	179,760,253		0	0	0	179,760,253	-6,325,948	
XX0005	Owner cost	269,995,144	10,250,000	280,245,144	280,245,144		0	0	0	280,245,144	10,250,000	* Transfer of 0.25 m from SH0019 for the fire truck * PCN #137 = 10 M for change in diversion timeline
ZZ0999	Unallocated budget	10,815,244	10,043,923	20,859,167	0		0	0	20,859,167	20,859,167	10,043,923	Transfer of 1.8 M from SH0019 for H&S mesures and items to unallocated budget * Transfer of 5.5 M to ZZ9999 for power consumption at MF * Transfer to owner's cost of 250 K for the purchase of fire truck * Transfer of 3 M from CH0003 for the operation of the sports complex

5,834,640,146 210,769,973 6,045,410,120 1,971,614,342 2,612,600,000 4,584,214,342 31,627,815 515,182,381 3,923,836,009 6,442,260,546 607,620,400

XX0006	Contingency	367,852,397	-210,769,973	89,494,034	0		0	0	89,494,034	89,494,034	-278,358,363	
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**TOTAL** 6,202,492,543 0 6,134,904,154 1,971,614,342 31,627,815 515,182,381 4,013,330,043 6,531,754,580 329,262,037

Awarded

1	SM0714 - SNC Lavalin	370,945,192		359,318,706	194,031,032					359,318,706		
120	Other CPN Packages (now 110 - 67 awarded)	4,526,013,391		4,760,933,971	879,610,982	2,612,600,000	3,492,210,982	73%		5,198,610,345		
21	SOBI Packages (16 awarded - 5 started)	352,014,204		355,473,155	355,473,155					320,973,155		
	Other Scope of Work	89,433,563		52,981,569	52,981,569					52,981,569		
	Environmental Approval	29,337,207		29,512,207	29,512,207					29,512,207		
	Historical Data	186,086,201		186,086,201	179,760,253					179,760,253		
	Owner Cost	269,995,144		280,245,144	280,245,144					280,245,144		
	Unallocated Budget	10,815,244		20,859,167	0					20,859,167		
	<b>TOTAL</b>	<b>5,834,640,146</b>		<b>6,045,410,120</b>	<b>1,971,614,342</b>					<b>6,442,260,546</b>		

RED - Package Deleted  
Awarded not posted yet (LNTP)

Package #	Package Title	Award Date	Expected Award Date	Procurement Status	Est. Substantially Completion Date	OCB (DG3 Estimate)	CCB	Original Award Value (incl. changes)	Final Forecast Cost (FFC)	FFC - OCB
CH0007	Construction of Intakes & Powerhouse, Spillway and Transition Dams	24-Sep-13		LNTP Signed	2017	\$ 751,987,716	\$ 775,318,236	\$ -	\$ 1,117,824,549	\$ 365,836,833
CD0501	Supply and Install of Converters and Cable Transition Compounds		20-Dec-13	Bids in - Evaluation Continues	Q2 2017	\$		\$ 266,102		
CT0327	Construction of 350 kV HVdc Transmission Line - Section 1 (MF to SOBI to Deer Lake 610 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017	\$ 392,729,526	\$ 489,569,017	\$ -	\$ 492,176,817	\$ 99,447,291
CT0319	Construction of 315 kV Hvac Transmission Line (MF to CF)		Q4 2013	Bids in - Evaluation Continues	Q3 2016	\$ 204,427,902	\$ 204,579,052	\$ -	\$ 260,040,986	\$ 55,613,084
CT0346	Construction of 350 kV HVdc Transmission Line - Section 2 (Central & Eastern NL 470 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017	\$ 187,414,391	\$ 184,092,004	\$ -	\$ 185,579,978	\$ (1,834,413)
CH0030	Supply and Install Turbines and Generators	2-Jan-13			2017	\$		\$ 168,584,862	\$	
CD0502	Construction of AC Substation and Synchronous Condensers Facilities		31-Mar-14	RFP closes Nov 27	Q3 2016	\$		\$ -	\$	
CH0024-001	Construction of Reservoir Clearing - North and South Banks (was formally CH0023 & CH0024)	25-Apr-13			Q4 2016	\$ 147,861,840	\$ 147,861,840	\$ 129,170,400	\$ 131,170,400	\$ (16,691,440)
CH0009	Construction of North and South Dams	24-Sep-13		Scope included in CH0007	2017	\$		\$ -	\$	
SH0018	Provision of Catering, Housekeeping & Janitorial Services (MF)		29-Nov-13	Bids in - Evaluation Continues	2017	\$ 122,708,010	\$ 110,775,943	\$ -	\$ 136,800,943	\$ 14,092,933
CH0006-001	Construction of Bulk Excavation Works	6-Nov-12			Q4 2013	\$ 139,882,885	\$ 142,763,882	\$ 123,541,741	\$ 147,239,655	\$ 7,356,770
CH0002-001 / CH0005	Supply and Install Accommodations Complex Buildings and Site Utilities	22-Oct-12			Q1 2014	\$ 85,472,606	\$ 150,104,623	\$ 145,420,479	\$ 151,826,189	\$ 66,353,583
CH0032/CH0046	Supply and Install of Spillway and Powerhouse Hydro-Mechanical Equipment	31-Oct-13			2018	\$		\$ -	\$	
LC-SB-003	Submarine Cable Design, Supply and Install	29-Nov-12			Q3 2016	\$ 161,744,769	\$ 161,744,769	\$ 123,687,546	\$ 123,687,546	\$ (38,057,223)
SM0714	Engineering, Procurement and Construction Management (EPCM) Services	1-Feb-11			N/A	\$ 370,945,192	\$ 359,318,706	\$ 194,031,032	\$ 359,318,706	\$ (11,626,486)
PH0014	Supply of Generator Step-up Transformers		29-Nov-13	Bids in - Evaluation Continues	Q4 2016	\$ 20,549,016	\$ 20,547,836	\$ -	\$ 20,547,836	\$ (1,180)
PH0016	Supply of Generator Circuit Breakers		27-Nov-13	Bids in - Evaluation Continues	Q1 2017	\$ 5,170,372	\$ 5,045,372	\$ -	\$ 5,045,372	\$ (125,000)

\$ 3,668,044,974 \$ 3,953,286,100 \$ 884,702,162 \$ 4,375,149,378 \$ 707,104,404