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Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

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| Title - Sujet 135 kV Substation Upgrade | |
| Solicitation No. - N° de l'invitation F1700-150694/A | Amendment No. - N° modif. 002 |
| Client Reference No. - N° de référence du client F1700-150694 | Date 2015-07-07 |
| GETS Reference No. - N° de référence de SEAG PW-\$PWY-005-7532 | |
| File No. - N° de dossier PWY-5-38046 (005) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-07-17 | |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Pillay, Sal (PWY) | Buyer Id - Id de l'acheteur pwy005 |
| Telephone No. - N° de téléphone (604) 775-9386 () | FAX No. - N° de FAX (604) 775-6633 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Conuma River Hatchery - Vancouver River, BC | |

Instructions: See Herein

Instructions: Voir aux présentes

| | |
|--|--|
| Delivery Required - Livraison exigée | Delivery Offered - Livraison proposée |
| Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur | |
| Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur | |
| Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie) | |
| Signature | Date |

Solicitation No. - N° de l'invitation

F1700-150694/A

Client Ref. No. - N° de réf. du client

F1700-150694

Amd. No. - N° de la modif.

002

File No. - N° du dossier

PWY-5-38046

Buyer ID - Id de l'acheteur

pw005

CCC No./N° CCC - FMS No/ N° VME

Notice to Bidders

This Amendment 002 is raised to :

- 1) revise the General Instructions - Construction Services - Bid Security Requirements,
- 2) revise General Condition (GC) 1 - General Provisions - Construction Services,
- 3) extend the bid closing date
- 4) Respond to Questions Received
- 5) incorporate Addendum No. 2

1) In the Invitation to Tender document,

REPLACE all references to General Instructions - Construction Services - Bid Security Requirements (2015-02-25) and its contents

WITH General Instructions - Construction Services - Bid Security Requirements (2015-07-03) and its contents.

2) In the Invitation to Tender document,

REPLACE all references to General Condition (GC) 1 - General Provisions - Construction Services (2015-04-01)

WITH General Condition (GC) 1 - General Provisions - Construction Services (2015-07-03).

The revised General Instructions and General Conditions are available at the following Web Site:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

3)

Extension of Time**Conuma River Hatchery, West Coast, Vancouver Island, BC
135 kV Substation Upgrade****Solicitation No: F1700-150694/A**

Notice is hereby given that the time for reception of tenders previously due at 2:00 p.m. on July 13, 2015 is hereby extended to **2:00 p.m. on July 17, 2015.**

4) **Response to Questions Received**

Q1 . Refer to Addendum 1

A1 was responded to with Addendum # 1:

Q2. What happened at the non-compulsory pre-tender site visit meeting held at the Conuma hatchery from noon to 1:20PM, Tuesday, 30 June 2015?

A2. Mike Austin, DFO hatchery manager, and David Bean, representing DFO's consulting engineers - Ausenco, showed those present the standby power 600V powerhouse with its ATS, 600V and 120/208V distribution panel boards, the transformers T1 & T2, the 138kV switchyard area and the T1 shipped-loose materials, still in their original shipping crates, in the open storage shed #2 on the west side of the property, approximately 200m from the 138kV switchyard along the west site roadway. The recent property line staking and water pipe ROW stakes were shown. There were seven representatives from six firms attending. Some of the questions below were posed at the meeting and are formally responded to here:

Q3. Where are the nearest medical facilities? Is there on-site first aid?

A3. Gold River and Tahsis have medical clinics. Contractor shall provide its own first aid personnel.

Q4. Is there helicopter landing provision at the hatchery?

A4. No, but when necessary helicopters have landed in an open field area of the hatchery.

Q5. It is understood that the hatchery will be using its two 150kW standby generators during the 600V normal supply outage necessary during the work in the 138kV switchyard. Who provides the fuel for this and for power used by the Contractor?

A5. Not the Contractor.

Q6. Has the soil been checked for contaminants?

A6. DFO conducted tests outside the switchyard fence and found no evidence of contamination.

- Q7. What arrangements have been made with BCH regarding metering and outages.
 A7. The Owner has/will pay BCH fees(only) for secondary metering and for the BCH 138kV re-energizing inspection. Arrangements, costs and fees for any BCH 138kV outages, if necessary, and BCH RE & RE from primary 138kV disconnect toward the transmission line are by the Contractor.
- Q8. Who is a BCH contact regarding 138kV outages?
 A8. Chandan Singh, email: Chandan.Singh@bchydro.com phone (604) 528-1970 cell (604) 760-3417.
- Q9. Who is a BCH contact regarding BCH 600V secondary metering?
 A9. Lloyd Clark in BCH Nanaimo office (250) 755-4744 (cell: 250 616-7574)
- Q10. What are the expectation for metering PTs and CTs?
 A10. Refer to Section 01 11 00 Item 1.2.14.
- Q11. Is the buried water pipe in the location shown on the initial tender package drawings?
 A11. No. Additional location efforts have occurred recently that indicate the pipe is ~ 4.3m east along north fence and ~ 7.5m east along south fence, from where shown on the revision 0 layouts, and about 2.4m beneath the surface.
- Q12. Does Contractor need to maintain the buried ground grid in the areas to be excavated for the oil containment apron and transformer foundations?
 A12. No. Contractor may remove and then replace the existing ground grid cables around the T1 foundation and cables/connections from there to the rest of the ground grid. However, the Contractor shall not disturb the ground grid to remain on either side of the old/new fence-line or the grounding to the ground mat and two steel towers from the east and west fencing.
- Q13. Is it a requirement to re-use the splice pit?
 A13. It may be reused as shown on the Drawing -289 or it may be replaced. If replaced, the existing splice pit must be removed and disposed of.
- Q14. May we use sub-contractors/sub-consultants for portions of the work?
 A14. Yes.
- Q15. What happens if the transformer oil sent for testing shows contamination?
 A15. Depends on what is recommended by the testing agency. Resolution will be an extra.
- Q16. Section 01 11 00 1.2.6 indicates we are to relocate the existing 138KV/300KVA Transformer.
 a) Where is this to be relocated to?
 b) Do you require disassembling of the unit, or removal of oil etc. to ready for transport off site?

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- A16. a) Ref Drawing 32-18-281: to/on the temporary storage pad that T1 is presently sitting on.
b) No. Relocate and place existing 300kVA transformer as found.
- Q17. Where is Contactor's temporary laydown area?
A17. Refer to Section 01 11 00 Item 1.4.2 (part of Addendum)
- Q18. What hatchery facilities may the Contractor's personnel use?
A18. Refer to Section 01 11 00 Item 1.4.3 (part of Addendum)
- Q19. What on-site power is available for the Contractor's use for construction purposes?
A19. Refer to Section 01 11 00 Item 1.4.4 (part of Addendum)
- Q20. Are there any hours-of-work restrictions?
A20. Refer to Section 01 11 00 Item 1.6.4 (part of Addendum)
- Q21. What is BCH's expectation for the meter base installation?
A21. Refer to Drawing 32-18-289 - Note 15 and Section 33 71 73 Items 2.1.3 and 3.2.6 (part of Addendum)
- Q22. What kind of instruction manuals are there for the two transformers? Vendor Drawings?
A22. T2 – 500kVA: There are generic instruction manuals.
T1 – 4 MVA: There is no assembly or installation instruction manual. See also Section 26 12 13 Item 3.1.2 (part of Addendum). T1 and T2 Vendor drawings are appended to Section 26 12 13.
- Q23. Has there been a geotechnical survey?
A23. Yes. Refer to Drawing 32-18-282 Note 4.1.
- Q24. What is the length of the ground rod on Drawing 32-18-299 that was relocated by Rev. 1?
A24. ** – 6 metre

5) Refer to the Attached Addendum No. 2.

Addendum #2:

The following changes in the Tender Documents are effective immediately. This addendum will form part of the Tender/Contract Documents

1. Refer to Drawing 31-18-289 Rev. 1, and to the notes ADD;
 13. SPLICE PIT: Three 78mm diameter conduit runs approach this pit from the SE. One, indicated as "Abandon Existing Supply To Powerhouse" has 3 - 600V RW90 power conductors plus ground. In addition, remove existing conductors and ground. Using new conduit, conduit shall be re-routed from near the powerhouse to the 600V disconnect switch by south fence of the switchyard. Run new conductors per Drawing 32-18-288 Rev. 0 Note 6. The other two 78mm RPVC conducts, indicated as part of "Existing 600V Buried Cables (Typ. For 7)" and Teck90 cables therein are to be relocated to the new splice pit location and the cable of each conduit re-spliced with connections to match as before.
 14. Existing 300kVA Transformer shall be removed in-tact and placed on temporary storage pad that T1 is temporarily placed.
 15. For BCH Meter: provide indicated RPVC conduct, minimum 53mm and concrete encase underground, from T2 600V 400A utility service metering compartment enclosure to combination meter base panel/ enclosure. Conduit shall end with an appropriately sized RPVC expansion fitting with large end extended, un-terminated against bottom of enclosure (to permit BCH to terminate its armoured 28mm OD metering cable and then use the expansion fitting to cover the cable connector).
2. Refer to **Section 01 11 00** Item 1.2.14 and, in the second sentence after the words ". . .within the 600V PDC" **DELETE**;
 "and install insulated neutral from Transformer secondary neutral bushing go the metering space"
ADD third sentence;
 "Note: T2 secondary bushings come with 3-phase plus neutral bus-work to main 400A CB, utility metering compartment and to provided cable lugs in next compartment below and utility metering compartment bus-work is prepared for installation of utility CTs and PTs;"
3. Item 1.2.22: **DELETE** entire text.
4. After Item 1.4.1: **ADD**;
 - .2 Contractor's temporary laydown area is the grass field between entry gate and BCH 138kV line ROW, on west side of access roadway (opposite west switchyard fence) and, if necessary, inside the gate - south to westerly side road. Prior to completion, the Contactor shall make good per civil specifications.
 - .3 Contactor's personnel may use the following hatchery facilities: the telephone, for calls within BC for business purposes only; the hatchery WiFi service; and the hatchery toilet in the hatchery office building.
 - .4 Contactor may use the following on-site power: at the 600V Powerhouse, a 120V 15A receptacle and Contractor may also install a 15A or 20A 1-, 2- or 3-pole CB in the powerhouse 600V distribution panel and use for loads to a maximum 20kW.
5. After Item 1.6.3: **ADD**;
 - .4 The hatchery has no hours-of-work restrictions. However, the hatchery manager must be informed in advance of the hours of work and at least 24h before any exceptions thereafter.

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6. Item 1.9.1.1: **ADD**;
At the commencement of the work and in the presence of the hatchery manager, the Contractor shall open and inspect the crated shipped-loose items associated with T1 and verify that there are no component shortages and that there is no breakage or deterioration affecting the proper installation and functioning of them.
7. Refer to Section 26 05 27 after Item 3.3.3: **ADD**;
.4 New and existing ground rods shall be driven to 100mm below final grade. However, ground rods external to the switchyard fence and more than 1 metre from it, shall be driven to minimum 600mm below finished grade;
8. Item 3.5.3: DELETE present sentence and **ADD**:
Connect T1 neutral ground to ground grid prior to (upstream of) the utility metering compartment.
9. Refer to **Section 26 12 13** after Item 3.1.1: **ADD**;
.2 The Contractor shall engage the T1 manufacturer, or recognized representative of same, and pay any associated costs to supervise the assembly and installation of loose components provided with T1 and to certify that the finished installation, installed on its switchyard foundation, is acceptable to the T1 manufacturer and ready for energization. Notes: The T1 manufacturer was Partner Technologies Inc. (PTI). PTI's T1 SO/serial # is N-12189. T1 was shipped in March 2011. PTI's phone number is (306) 721-3114. PTI contact is Murray Popoff;
10. Refer to **Section 33 71 73** Item 2.1.3: **ADD** sentence;
NEMA 4X meter enclosure shall be 316SS, minimum 400 by 400 by 750mm high with hinged pad-lockable front cover containing the BCH approved combination test-switch/meter socket, installed within 30mm from top.
11. Item 3.2.6: **ADD** two sentences;
Use two HD Galvanized 100mm by 6mm thick steel C channel or HSS "posts" embedded in 250 mm diameter by 1m deep minimum or equal, concrete footings to support disconnect switch and meter-socket panel enclosure. Properly mount the two enclosures using horizontal HDG P1000 Unistrut channels or similar and SS hardware to suit. Top of HDG posts shall be minimum 2.1m above grade and shall have 6mm aluminum rain cover plate securely fastened and arranged shed-like to overhang both enclosures and posts by 100mm with a 2% down-slope toward fence.

All other terms and conditions remain unchanged.