Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des soumissions - TPSGC
11 Laurier St./11 rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5

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

Construction Services Division/Division des services de construction
11 Laurier St./11 Rue Laurier
3C2, Place du Portage
Phase III
Gatineau, Québec K1A 0S5

Title - Sujet S.J.C. Building Deconstruction	
Solicitation No. - N° de l'invitation EP076-131647/A	**Amendment No. - N° modif.** 003
Client Reference No. - N° de référence du client R.010592.002	**Date** 2012-12-10
GETS Reference No. - N° de référence de SEAG PW-$$FG-345-61469	
File No. - N° de dossier fg345.EP076-131647	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-12-20	**Time Zone** **Fuseau horaire** Eastern Standard Time EST
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Nealon, Shawn	**Buyer Id - Id de l'acheteur** fg345
Telephone No. - N° de téléphone (819) 956-3391 ( )	**FAX No. - N° de FAX** (819) 956-8335
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:** Sir John Carling Building, Central Experimental Farm, 930 Carling Avenue, Ottawa, Ontario.	

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**

Canada

THE PURPOSE OF THIS AMENDMENT IS TO ISSUE ADDENDUM #1

End of Amendment.

Addendum No. 1

The following changes in the bid documents are effective immediately. This addendum will form part of the contract documents.

1 DRAWINGS

.1 Add Drawing ESK-1.

.2 Add Drawing ESK-2.

2 SPECIFICATIONS

.1 Section 01 11 00 - Summary of Work
  .1 Add new Article 1.1.1.4.6 as follows: "Remove high density mobile shelving storage systems."

.2 Section 01 11 00 - Summary of Work
  .1 Add new Article 1.1.1.5.7 as follows: "Remove high density mobile shelving storage systems."

.3 Section 01 35 73 - Procedures for Deconstruction of Structures.
  .1 Add new Subsection 1.4.8 as follows: "Prior to start of demolition and/or deconstruction work on site, submit a detailed survey, including photographs, of the condition of the West Annex and West Link and all other buildings within 300 m of the Extent of Contract Area. Document all existing defects, failures, cracks or evidence of structural movement. Secure the Departmental Representative's written acceptance of the survey. The survey will serve to identify, post demolition and/or deconstruction, any effect of the demolition and/or deconstruction on the West Annex and West Link or on adjacent buildings."

.4 Section 01 35 73 - Procedures for Deconstruction of Structures.
  .1 Add new Subsection 1.4.9 as follows: "Prior to start of demolition and/or deconstruction work on site, submit a detailed deconstruction/disassembly plan. Identify the means and methods of deconstruction, disassembly and demolition. Where the means and methods affects the structural integrity and stability of portions of the building to be retained or deconstructed and/or demolished, provide reports and/or drawings stamped and signed by a qualified professional Engineer or Architect registered or licensed in Ontario that demonstrate the means and methods. Secure the Departmental Representative's written acceptance of the deconstruction/disassembly plan."

.5 Section 02 41 13 - Selective Site Demolition
  .1 Delete Subsection 3.2.3 entirely.

.6 Add Section 26 05 00, Common Work Results - Electrical.

.7 Add Section 26 05 11, Demolition / Removals.

.8 Add Section 26 05 14, Power Cable 15 KV.

END OF ADDENDUM

PART 1 - GENERAL

1.1 GENERAL

.1 This Section covers items common to Sections of Division 26. This section supplements requirements of Division 1.

1.2 REFERENCES

.1 Canadian Standards Association (CSA)
- .1 CAN3-235-83 (R2010)
- .2 CSA C22.1 update No 1 2012

.2 American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE)
- .1 ANSI/IEEE C57.17

.3 Ontario Electrical Safety Code 2012

1.3 CODES AND STANDARDS

.1 Do the complete installation in accordance with CSA C22.1-12 and the Ontario Electrical Safety Code 2012 except where specified otherwise.

1.4 CARE, OPERATION AND START-UP

.1 Instruct Departmental Representative in the operation, care and maintenance of systems, system equipment and components.

.2 Arrange and pay for services of manufacturer's factory service engineer to supervise start-up of installation, check, adjust, balance and calibrate components and instruct operating personnel.

.3 Provide these services for such period, and for as many visits as necessary to put equipment in operation, and ensure that operating personnel are conversant with all aspects of its care and operation.

1.5 VOLTAGE RATINGS

.1 Operating voltages: to CAN3-C235-83.

.2 Distribution devices and equipment to operate satisfactorily at 60 Hz within normal operating limits established by above standard. Equipment to operate in extreme operating conditions established in above standard without damage to equipment.

1.6 PERMITS, FEES AND INSPECTION

.1 The contractor is responsible for obtaining inspection permits from Ontario Electrical Safety Authority as required by CSA C22.1-12 and shall pay all associated fees. Proof of compliance to be posted on site prior to commencement of work.

.2 The Departmental Representative will provide additional drawings and specifications if required by Electrical Safety Authority (site inspection) at no cost.

.3 Notify Departmental Representative of additional changes required by Electrical Safety Authority prior to making changes.

.4 Furnish Certificates of Acceptance from Electrical Safety Authority to the Departmental Representative on completion of work. Copies of certificates to be included in the maintenance manuals under warranties.

1.7 MATERIALS AND EQUIPMENT

.1 Equipment and material to be CSA certified. Where there is no alternative to supplying equipment which is not CSA certified, obtain special approval from Electrical Inspection Department.

.2 Factory assemble control panels and component assemblies.

1.8 WIRING IDENTIFICATION

.1 Identify wiring with permanent indelible identifying markings, either numbered or coloured plastic tapes, on both ends of phase conductors of feeders and branch circuit wiring.

.2 Maintain phase sequence and colour coding throughout.

.3 Colour code: to CSA C22.1.

1.9 MANUFACTURERS AND CSA LABELS

.1 Visible and legible, after equipment is installed.

1.10 LABELING

.1 Each 15 kV loop switch to be labeled as specified and to meet requirements of the Departmental Representative and read "13200 VOLTS from Building No. XXX"

.2 Each 15 kV transformer isolation switch to be labeled as specified and to meet requirements of the Departmental Representative and read "13200 VOLTS to Building No. XXX Transformer"

.3 Signs to be located on equipment enclosure doors below each switch operating handle for all buildings touched by this scope of work.

1.11 FIELD QUALITY CONTROL

.1 All electrical work to be carried out by qualified, licensed electricians or apprentices as per the conditions of the Provincial Act respecting manpower vocational training and qualification. Employees registered in a provincial apprentices program shall be permitted, under the direct supervision of a qualified licensed electrician, to perform specific tasks - the activities permitted shall be determined based on the level of training attained and the demonstration of ability to perform specific duties.

.2 The work of this division to be carried out by a contractor who holds a valid Master Electrical contractor license as issued by the Province in which the work is being constructed.

.3 Conduct and pay for following tests:
- .1 Power distribution system including phasing, voltage, grounding and load balancing.

.4 Furnish manufacturer's certificate or letter confirming that entire installation as it pertains to each system has been installed to manufacturer's instructions.

.5 Insulation resistance testing.
- .1 Verify and test relay and breaker in accordance to ANSI/IEEE C57.17.
- .2 Check resistance to ground before energizing.
- .3 Calibrate CB3 relay and breaker in accordance with manufacturer's instructions.
- .4 Verify and re-establish phasing.

.5 Perform a low frequency cable hipot test before energizing.

.6 Carry out tests in presence of Departmental Representative.

.7 Provide instruments, meters, equipment and personnel required to conduct tests during and at conclusion of project.

.8 Submit test results for Departmental Representative's review.

.9 Do not lay new cables across road ways, sidewalks and landscape at any time. Protect cables from mechanical damage.

.10 Before energizing the circuit, perform a very low frequency cable and high potential (Hipot) test. Issue full report & chart for review.

1.12 FEES

.1 Pay for all fees/permits associated with this project.

PART 2 - PRODUCTS

2.1 NOT USED

.1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED

.1 Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 GENERAL

.1 This Section covers items common to the electrical demolition.

1.2 CODES AND STANDARDS

.1 Do complete demolition/removals in accordance with the Canadian Electrical Code CSA C22.1-2012.

1.3 CO-ORDINATION

.1 Retain existing electrical equipment and feeders operational until replacement equipment and feeders are installed and operational to minimize interruptions.

.2 Electrical contractor to survey existing equipment and document in the form of diagrams. These diagrams will be used to rewire new equipment and cabling being installed.

1.4 REMOVED MATERIALS

.1 All removed materials become the property of this contractor who is responsible for removal of such equipment from site following all environmental, provincial and municipal disposal bylaws for such equipment.

.2 Stamped and signed disposal certificates to be provided to the Departmental Representative.

PART 2 - PRODUCTS

2.1 GENERAL

.1 Provide closure caps for existing equipment, junction and pull boxes being retained but having feeders removed.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Provide all materials, appliances and labour to complete demolition/removal work as shown on drawings and/or reasonably implied in specifications.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

.1 National Electrical Manufacturers' Association (NEMA)/Insulated Cable Engineers Association (ICEA)
- .1 NEMA WC74-2006, Shielded Power Cables 5,000 – 46,000V.

PART 2 - PRODUCTS

2.1 CABLES

.1 High voltage cables: to NEMA WC-74-2006

.2 3#2 TECK 15 kV + 4/0 bare ground cable flame retardant properties, resistant to oil, abrasions, petrochemical fluids and moisture.

2.2 ACCESSORIES

.1 Cold shrink 15 kV, HVBC cable to bus connection kits.

.2 Fasten cables in manholes with heavy duty nonmetallic cable rack RA20, 508 mm, 113.5 kg, reinforced polymer with deflection of 25 mm from end of arm.

.3 Provide power cable splice as required, for 3#2 Tech 15kV + 4/0 bare ground and PILC 15kV existing cables.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Install new cables in existing duct banks.

.2 Terminate cables to existing high voltage switchgear with watertight connectors as per manufacturer's recommendation.

.3 Install stress cones on each conductor at each termination on both ends of the cable.

.4 Install a compression lug rated a 15 kV application on each conductor at all termination points for a 15 kV system.

.5 Allow a minimum of 2 meters of spare cable at each end of all runs and loop in manholes.

.6 Visual and Mechanical Inspection
- .1 Inspect exposed sections for physical damage.
- .2 Check tightness of bolted connections.
- .3 Inspect compression-applied connectors for proper cable match and indention.
- .4 Inspect for shield grounding, cable support, and termination.
- .5 Inspect fireproofing in common cable areas.
- .6 If cables are terminated through toroidal CT's, make an inspection to verify that neutrals and grounds are properly terminated for proper operation of protective devices.

.7 Electrical Tests

.1 Perform a shield-continuity test on each power cable.
.2 Perform an insulation-resistance test utilizing a low frequency meter.
.3 Perform a DC high-potential test on each conductor of all cables.

END OF SECTION