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Vancouver
British Columbia
V6Z 2V8
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, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 2V8

Title - Sujet Building Envelope Refurbishing	
Solicitation No. - N° de l'invitation EZ899-130170/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client	Date 2012-06-12
GETS Reference No. - N° de référence de SEAG PW-\$PWY-019-6693	
File No. - N° de dossier PWY-2-35027 (019)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-06-15	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
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: Ngan, Ken (PWY)	Buyer Id - Id de l'acheteur pwy019
Telephone No. - N° de téléphone (604) 658-2755 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: TC - Combined Services Building, Sandspit Airport - Sandspit, B.C.	

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

EZ899-130170/A

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

Amd. No. - N° de la modif.

002

File No. - N° du dossier

PWY-2-35027

Buyer ID - Id de l'acheteur

pw019

CCC No./N° CCC - FMS No/ N° VME

Please find Addendum #1 attached.

All other terms and conditions remain unchanged.

Addendum #1

Addendum #1.

This Addendum is in addition to, and forms a part of the Contract. The cost, if any, of this revision(s) shall be included in the Contract price. All bidders shall acknowledge receipt and acceptance of this addendum by indicating Addendum number, date, and description, on the Tender Form provided. The revision(s) is as follows:

Revise The Specifications as follows:

1. Specifications Section 01 11 55 – GENERAL INSTRUCTIONS –

13. Contractor's Use of Site:

.1 Use of site:

Replace sub-sub-paragraph .1.1 with the following

.1 The CSB will remain in full operation during the course of the work. The contractor shall coordinate and schedule the work so as not to impair normal functions of the CSB. *Contractor to provide minimum 48 hours notice to Departmental Representative and Sandspit Regional Airport Authorities of any work that may cause exposure of building occupants to potentially hazardous materials and methods in accordance with Section 01 35 33 - Health and Safety Requirements.*

2. Specification Division 02 – EXISTING CONDITIONS

Insert Section 02 82 00.01 - Asbestos Abatement – Minimum Precautions.
(8 pages)

3. Specifications Section 26 50 00 – Lighting

Replace metal halide with similar performance solid state LED

- 2.1. Lamps .1 LED providing 1200 lumens for recessed downlights, 2400 lumens for wall packs.

Revise the Drawings as follows:

1. Drawing E1:

a. Electrical Notes:

Replace Items 2, 3 and 4 with the following:

“.2 Replace nine (9) existing 35 Watt hps 120 volt HID soffit mounted fixtures with:
Nine (9) LED soffit mounted light fixtures c/w lens covers rated for exterior use with
stainless steel housings, 1200 lumen rated lumens.
Install new fixtures in same location as original fixtures.

.3 Remove existing soffit mounted and replace with new wall pack fixture installed
between doors 101A and 116 as indicated.

Install new fixtures in same location as original fixtures.
Solid state LED 2400 lumen wall pack , UL 1598 wet location list, L70 life expectancy of
70,000 hours, die cast aluminum housing. Down-lighting only to avoid glare at runways.

.4 Remove six (6) existing wall pack fixtures and dispose of same. Replace with six
(6) new wall pack fixtures installed in the same locations as original fixtures.

Solid state LED 2400 lumen wall pack , UL 1598 wet location list, L70 life expectancy of
70,000 hours, die cast aluminum housing. Down-lighting only to avoid glare at runways.”

INQUIRIES AND RESPONSES

Question #1

“ I am looking for clarification on the windows for the project in Sandspit. The spec calls for vinyl, but the drawings are showing aluminum.

Also, I am confused by what is being asked for in regards to the swing doors. Can you clarify what we are to price?

Would it be possible to have a list of suppliers/manufacturers for these products as well? “

Answer:

- a) The indicated profiles in the drawings are generic in nature and indicate how the windows are to be integrated into the wall assembly. Shop drawings are to be submitted for review to ensure that all the components work together with the profile of the proposed products.
- b) Windows are to be vinyl framed per section 08 50 00 -Windows.
- c) Due to the marine environment, swing doors and frames are to be are to be fibreglass reinforced plastic doors with frames as specified in Section 08 22 00 – Fibreglass Reinforced Plastic Doors and Frames.
- d) As this is a performance specification, we are not permitted to list products capable of meeting the specified performance requirements mandated by Code and listed in paragraph 2.2, however our research indicates that products meeting these levels are generally available in Canada.

Question #2:

“...would you be able to provide any information you might have which general contractors are pricing this project?”

Answer: No, we are not able to provide this information.

Project No. R.048876.001
CSB – Building Envelope Refurbishing
Sandspit Regional Airport, Sandspit, British Columbia.

Date: 12 June 2012

Addendum #1

Question #3:

“There is a bit of confusion as to what to include for asbestos and lead paint removal as well. “

Answer:

Work is to be conducted in accordance with Section 01 35 33 Health and Safety Requirements. Since Work will involve removal and disposal of items identified as containing asbestos and lead in the Pre-renovation Hazardous Building Materials Survey Report, prepared by PHH ARC Environmental, the work must be undertaken in accordance with Section 02 82 00.01 Asbestos Abatement – Minimum Precautions added per Addendum # 1. Disposal of all items is and construction debris is to be in accordance with Section 01 74 19 Waste Management and Disposal.

end

PART 1 - GENERAL

1.1 SUMMARY

- .1 Remove all hazardous materials noted in the Pre-renovation Hazardous Material Survey Report prepared by PHH ARC that are within the "area of work" as defined by the drawings (See Appendix A bound at the end of the specifications).
- .2 Comply with requirements of this Section when performing following work:
 - .1 Removing ceiling tiles that are asbestos-containing material, if the tiles cover an area less than 7.5 square metres and are removed without being broken, cut, drilled, abraded, ground, sanded or vibrated.
 - .2 Removing non-friable asbestos-containing materials, other than ceiling tiles, if the material is installed or removed without being broken, cut, drilled, abraded, ground, sanded or vibrated at locations indicated in "Pre-renovation Hazardous Building Materials Survey Report- Combined Services Building, Sandspit Airport, Sandspit, BC" (attached Appendix A).
 - .3 Break, cut, grind, sand, drill, scrape, vibrate or abrade non-friable asbestos containing materials using non-powered hand-held tools, and the material is wetted to control the spread of dust or fibres.
 - .4 Removing less than one square metre of drywall in which joint-filling compounds that are asbestos containing materials have been used.

1.2 RELATED REQUIREMENTS

- .1 "Pre-renovation Hazardous Building Materials Survey Report - Combined Services Building, Sandspit Airport, Sandspit, BC" - (Refer to Appendix A at end of Specifications)
- .2 Section 01 35 33.
- .3 Section 01 74 19
- .4 Section 01 51 00

1.3 REFERENCES

- .1 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Protection Act, 1999 (CEPA).
- .2 Transport Canada (TC)
 - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).

- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.205-[94], Sealer for Application of Asbestos Fibre Releasing Materials.
- 5 Underwriters' Laboratories of Canada (ULC)

1.4 DEFINITIONS

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Amended Water: water with nonionic surfactant wetting agent added to reduce water tension to allow thorough wetting of fibres.
- .3 Asbestos-Containing Materials (ACMs): materials that contain 0.5 per cent or more asbestos by dry weight and are identified under Existing Conditions including fallen materials and settled dust.
- .4 Asbestos Work Area: area where work takes place which will, or may, disturb ACMs.
- .5 Authorized Visitors: Professional Engineers, Consultants, Departmental Representative and representatives of regulatory agencies.
- .6 Competent worker in relation to specific work, means a worker who:
 - .1 Is qualified because of knowledge, training and experience to perform the work.
 - .2 Is familiar with the provincial and federal laws and with the provisions of the regulations that apply to the work.
 - .3 Has knowledge of all potential or actual danger to health or safety in the work.
- .7 Friable material: means material that:
 - .1 When dry, can be crumbled, pulverized or powdered by hand pressure, or
 - .2 is crumbled, pulverized or powdered.
- .8 Non-Friable Material: material that when dry cannot be crumbled, pulverized or powdered by hand pressure.
- .9 Occupied Area: any area of the building or work site that is outside Asbestos Work Area.
- .10 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects, over cuts and tears, and elsewhere as required to provide protection and isolation.

- .11 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must have appropriate capacity for work.
- 1.5 ACTION AND INFORMATIONAL SUBMITTALS
-
- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit proof satisfactory to Departmental Representative that suitable arrangements have been made to dispose of asbestos-containing waste in accordance with requirements of authority having jurisdiction.
- .3 Submit Provincial and/or local requirements for Notice of Project Form as per Section 01 35 33.
- .4 Submit proof of Contractor's Asbestos Liability Insurance.
- .5 Submit to Departmental Representative necessary permits for transportation and disposal of asbestos-containing waste and proof that asbestos-containing waste has been received and properly disposed.
- .6 Submit proof that all asbestos workers and/or supervisor have received appropriate training and education by a competent person in the hazards of asbestos exposure, good personal hygiene and work practices while working in Asbestos Work Areas, and the use, cleaning and disposal of respirators and protective clothing.
- .7 Submit proof satisfactory to Departmental Representative that employees have respirator fitting and testing. Workers must be fit tested (irritant smoke test) with respirator that is personally issued.
- 1.6 QUALITY ASSURANCE
-
- .1 Regulatory Requirements: comply with Federal, Provincial, and local requirements pertaining to asbestos, provided that in case of conflict among these requirements or with these specifications, more stringent requirement applies. Comply with regulations in effect at time Work is performed.
- .2 Health and Safety:
- .1 Perform construction occupational health and safety in accordance with Section 01 35 33 - Health and Safety Requirements.
- .2 Safety Requirements: worker protection.

.1 Protective equipment and clothing to be worn by workers while in Asbestos Work Area include:

.1 Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter, personally issued to worker and marked as to efficiency and purpose, suitable for protection against asbestos and acceptable to Provincial Authority having jurisdiction. The respirator to be fitted so that there is an effective seal between the respirator and the worker's face, unless the respirator is equipped with a hood or helmet. The respirator to be cleaned, disinfected and inspected after use on each shift, or more often if necessary, when issued for the exclusive use of one worker, or after each use when used by more than one worker. The respirator to have damaged or deteriorated parts replaced prior to being used by a worker; and, when not in use, to be stored in a convenient, clean and sanitary location. The employer to establish written procedures regarding the selection, use and care of respirators, and a copy of the procedures to be provided to and reviewed with each worker who is required to wear a respirator. A worker not to be assigned to an operation requiring the use of a respirator unless he or she is physically able to perform the operation while using the respirator.

.2 Disposable-type protective clothing that does not readily retain or permit penetration of asbestos fibres. Protective clothing to be provided by the employer and worn by every worker who enters the work area, and the protective clothing shall consist of a head covering and full body covering that fits snugly at the ankles, wrists and neck, in order to prevent asbestos fibres from reaching the garments and skin under the protective clothing to include suitable footwear, and to be repaired or replaced if torn.

.3 Eating, drinking, chewing, and smoking are not permitted in Asbestos Work Area.

.4 Before leaving Asbestos Work Area, the worker can decontaminate his or her protective clothing by using a vacuum equipped with a HEPA filter, or by damp wiping, before removing the protective clothing, or, if the protective clothing will not be reused, place it in a container for dust and waste. The container to be dust tight, suitable for asbestos waste,

impervious to asbestos, identified as asbestos waste, cleaned with a damp cloth or a vacuum equipped with a HEPA filter immediately before removal from the work area, and removed from the work area frequently and at regular intervals.

.5 Facilities for washing hands and face shall be provided within or close to the Asbestos Work Area.

.6 Ensure workers wash hands and face when leaving Asbestos Work Area. Facilities for washing are located as indicated on drawings.

.7 Ensure that no person required to enter an Asbestos Work Area has facial hair that affects seal between respirator and face.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Separate for recycling and place in designated containers steel, metal, plastic waste in accordance with Waste Management Plan.
- .5 Place materials defined as hazardous or toxic in designated containers.
- .6 Handle and dispose of hazardous materials in accordance with the CEPA, TDGA, Regional and Municipal regulations.
- .7 Fold up metal banding, flatten and place in designated area for recycling.
- .8 Disposal of asbestos waste generated by removal activities must comply with Federal, Provincial, and Municipal regulations. Dispose of asbestos waste in sealed double thickness 6 ml bags or leak proof drums. Label containers with appropriate warning labels.
- .9 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

1.8 EXISTING
CONDITIONS

- .1 Reports and information pertaining to ACMs to be handled, removed, or otherwise disturbed and disposed of during this project are bound into this specification - Refer to Appendix A.
- .2 Notify Departmental Representative of friable material discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material pending instructions from Departmental Representative

1.9 SCHEDULING

- .1 Hours of Work: perform work involving removal of hazardous materials during normal working hours.
- .2 Coordinate and schedule the work so as not to impair normal functions of the CSB. Provide a minimum of 48 hours notice to Departmental Representative and Sandspit Regional Airport authorities where work will be done in the interior of the building or affect building occupants.
- .3 Include in Contract Sum additional costs if work is to be performed after working hours to maintain full operation of the CSB.

1.10 PERSONNEL
TRAINING

- .1 Before beginning Work, provide Departmental Representative satisfactory proof that every worker has had instruction and training in hazards of asbestos exposure, in personal hygiene and work practices, and in use, cleaning, and disposal of respirators and protective clothing.
- .2 Instruction and training related to respirators includes, following minimum requirements:
 - .1 Fitting of equipment.
 - .2 Inspection and maintenance of equipment.
 - .3 Disinfecting of equipment.
 - .4 Limitations of equipment.
- .3 Instruction and training must be provided by a competent, qualified person.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Drop Sheets:
 - .1 Polyethylene: 0.15 mm thick.
 - .2 FR polyethylene: 0.15 mm thick woven fibre reinforced fabric bonded both sides with polyethylene.
- .2 Wetting Agent: 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with water in a concentration to provide thorough wetting of asbestos-containing material.

- .3 Waste Containers: contain waste in two separate containers.
 - .1 Inner container: 0.15 mm thick sealable polyethylene waste bag.
 - .2 Outer container: sealable metal or fibre type where there are sharp objects included in waste material; otherwise outer container may be sealable metal or fibre type or second 0.15 mm thick sealable polyethylene bag.
 - .3 Labelling requirements: affix pre-printed cautionary asbestos warning in both official languages that is visible when ready for removal to disposal site.
- .4 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual asbestos fibres.
- .5 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under both dry conditions and wet conditions using amended water.

PART 3 - EXECUTION

3.1 PROCEDURES

- .1 Do construction occupational health and safety in accordance with Section 01 35 33 - Health and Safety Requirements.
- .2 Before beginning Work, isolate Asbestos Work Area using, minimum, preprinted cautionary asbestos warning signs in both official languages that are visible at access routes to Asbestos Work Area.
 - .1 Remove visible dust from surfaces in the work area where dust is likely to be disturbed during course of work.
 - .2 Use HEPA vacuum or damp cloths where damp cleaning does not create a hazard and is otherwise appropriate.
 - .3 Do not use compressed air to clean up or remove dust from any surface.
- .3 Prevent spread of dust from Asbestos Work Area using measures appropriate to work to be done.
 - .1 Use FR polyethylene drop sheets over flooring such as carpeting that absorbs dust and over flooring in Asbestos Work Area where dust and contamination cannot otherwise be safely contained. Drop sheets are not to be reused.

- .4 Wet materials containing asbestos to be cut, ground, abraded, scraped, drilled, or otherwise disturbed unless wetting creates hazard or causes damage.
 - .1 Use garden reservoir type low - velocity fine - mist sprayer.
 - .2 Perform Work to reduce dust creation to lowest levels practicable.
 - .3 Work will be subject to visual inspection and air monitoring.
 - .4 Contamination of surrounding areas indicated by visual inspection or air monitoring will require complete enclosure and clean-up of affected areas.
- .5 Frequently and at regular intervals during Work and immediately on completion of work:
 - .1 Dust and waste to be cleaned up and removed using a vacuum equipped with a HEPA filter, or by damp mopping or wet sweeping, and placed in a waste container, and
 - .2 Drop sheets to be wetted and placed in a waste container as soon as practicable.
- .6 Cleanup:
 - .1 Place dust and asbestos containing waste in sealed dust-tight waste bags. Treat drop sheets and disposable protective clothing as asbestos waste; wet and fold these items to contain dust, and then place in plastic bags.
 - .2 Clean exterior of each waste-filled bag using damp cloths or HEPA vacuum and place in second clean waste bag immediately prior to removal from Asbestos Work Area.
 - .3 Seal waste bags and remove from site. Dispose of in accordance with requirements of Provincial and Federal Authority having jurisdiction. Supervise dumping and ensure that dump operator is fully aware of hazardous nature of material to be dumped and that the appropriate guidelines and regulations for asbestos disposal are followed.
 - .4 Perform final thorough clean-up of Work areas and adjacent areas affected by Work using HEPA vacuum.

END OF SECTION