

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Regional Manager/Real Property
Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

LETTER OF INTEREST
LETTRE D'INTÉRÊT

Comments - Commentaires

Title - Sujet CCIW Burlington - upgrade labs & AH	
Solicitation No. - N° de l'invitation EQ754-160181/A	Date 2015-06-18
Client Reference No. - N° de référence du client R.073578.001	GETS Ref. No. - N° de réf. de SEAG PW-\$PWL-037-2015
File No. - N° de dossier PWL-5-38029 (037)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-08-13	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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: Dhillon, Ambreen	Buyer Id - Id de l'acheteur pw1037
Telephone No. - N° de téléphone (416) 590-8259 ()	FAX No. - N° de FAX (416) 512-5862
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Environment Canada CCIW 867 Lakeshore Road Burlington, ON X1X 1X1	

Instructions: See Herein

Instructions: Voir aux présentes

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

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

Issuing Office - Bureau de distribution
Regional Manager/Real Property Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

Letter of Interest

Canada Centre for Inland Waters Laboratory, Air Handling Units and Heating Upgrade Project PWGSC Project R.073578.001 EQ754-160181/A

THIS IS NOT A PROCUREMENT

01) INTENT

Public Works and Government Services Canada (PWGSC) will be issuing an Invitation to Tender (ITT) for a requirement at the Canadian Centre for Inland Waters for a laboratory, air handling unit and heating system upgrade.

The intent of this notice is to provide all potential bidders with advanced notice that this requirement will contain a security requirement (see below) and bidders must hold the appropriate security clearance at the time of bid closing to be considered (see 7. Mandatory Requirements). Obtaining the required security clearance may take 60 days or depending upon the accuracy and quality of the security clearance submission request received. Due to the time required to obtain the appropriate security clearance it is strongly recommended interested bidders begin and complete this process as soon as possible.

Security Requirement

1. The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer/Supply Arrangement, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor/Offeror personnel requiring access to PROTECTED information, assets or sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.
3. The Contractor/Offeror MUST NOT remove any PROTECTED information or assets from the identified work site(s), and the Contractor/Offeror must ensure that its personnel are made aware of and comply with this restriction.
4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.

5. The Contractor/Offeror must comply with the provisions of the:

- a. Security Requirements Check List and security guide (if applicable)
- b. Industrial Security Manual (Latest Edition).

01) PWGSC, in coordination with CISC will be providing the opportunity for interested bidders to apply and obtain RELIABILITY STATUS prior to the issuance of the ITT for EQ754-160181. Please review the project details and scope of work contained below, with particular attention to the Mandatory Requirements. If your firm is interested in submitting a bid for the upcoming ITT and need to obtain the required Designated Organization Screening, please contact the Contracting Officer, Ambreen Dhillon at the information provided in section 03.

02) PROJECT DETAILS AND SCOPE OF WORK

The project details and scope below are provided as a general description of the work and is subject to change within the actual posting of the Invitation to Tender (ITT).

1. Background:

The CCIW, as one of National Water Research Institute (NWRI) two main centres is located at 867 Lakeshore Road in Burlington Ontario and is considered one of the world's leading water research centres. The CCIW complex consists of six inter-connected buildings, most built in the early 1970s in 4 phases, with a total of almost 50,000 square metres of floor space. It is owned and operated by Environment Canada who are the custodial department of the CCIW and self-manages the facility. In addition to Environment Canada, the facility also houses Department of Fisheries & Oceans (DFO), Canadian Coast Guard (CCG) and members of the RCMP. The facilities have undergone a number of upgrades in the past as Environment Canada continually improves the performance of the facilities.

2. Facilities:

Administration & Laboratory (A&L) – An eight storey building housing the main facility entrance, administrative offices, cafeteria, kitchen, auditorium, library, offices, laboratories. The majority of the laboratories are located on floors 4 to 7 with approximately 2,500 m² on each floor (Labs at 1,030m² and Office and Common Areas at 1,400m²). These floors are generally arranged with the laboratories backing on a central service core with staff offices located on the building exterior. The Service Core which contains the plumbing, piping, drainage, and fume hood exhaust risers to the penthouse are centrally located on each floor and back on to the laboratories. The Mechanical Room serving the A&L is located on the 3rd floor and the fume hood

exhaust fans and stacks are housed in the Penthouse located above Floor 7. An enclosed 2 storey area, referred to as the Mall, interconnects the A&L, R&D, Hydraulics Lab and Warehouse structures at the 1st and 2nd floor levels with five open circulation stairs.

Research & Development (R&D) – A two storey building housing offices, laboratories and workshops on the west side of the A&L.

Hydraulics Lab (H Wing) – A two storey building housing laboratories and offices on the south and east sides of the A&L Building.

Warehouse – A two storey building housing workshops, storage areas, shipping/receiving areas, offices, and laboratories on the north end of the A&L and R&D Buildings.

Boiler Plant – A one storey building with 2 mezzanine areas housing the main heating equipment for the entire facility.

Wastewater Technology Centre (WTC) – A separate two storey, heated building, originally constructed in 1971 with an addition on the east side in 1995, currently housing offices and laboratories, workshops. The mechanical equipment serving this building is housed in a rooftop Mechanical Penthouse.

3. Scope of Work:

Labs L527, L530 and H158

The scope of work will include the modernization of three existing laboratories; L527, L530 and H158. L527 is an existing Instrument Laboratory located on the 5th floor of the A&L Building and is approximately 23m² in area; L530 Laboratory, L530A Analytical Room and ST530A Storage Room is an Inorganic Geochemistry Laboratory located next to L527 on the 5th floor of the A&L Building and approximately 69m² in area; H158 Algal Bloom Studies is an existing laboratory located on the Ground Floor of the Hydraulics Lab portion of the Hydraulics Wing (H Wing) of the NWRI building and is approximately 189m² in area. The three laboratories will have all existing laboratory equipment and finishes including flooring and ceilings removed in order to provide new laboratory finishes. Existing chemical fume hoods and canopy hoods will be removed and new exhausts provided to the existing risers in the service core. Existing HVAC distribution in the labs will be replaced including existing VAV boxes, diffusers and grilles and replaced with new general and exhaust ducts including new, quick acting dual duct quick response air control valves. All new plumbing, gases, lighting and electrical services will be provided. H158 is served by an existing central

strobic exhaust fan for the chemical fume hoods which will remain and the existing rooftop AHU 44 which serves the laboratory will be replaced with a new AHU.

Office and Support Space Upgrades

The scope of work will include approximately 120m² of new open office areas enclosed collaborative work spaces to be constructed on the fifth floor of the A&L Building adjacent to the L527 and L530 Laboratories. The area of this renovation is approximately 120m² and is designed in accordance with Workplace 2.0 Standards. The work will include the demolition of existing offices and provision of a new finishes and mechanical and electrical systems. The contract will include the rough-in for owner supplied work stations and furniture.

Trace Level Methylmercury Analytical Laboratory (TLMAL) Storage

A new Trace Level Methylmercury Analytical Laboratory (TLMAL) Storage Room will be constructed within the Ground Floor of the Hydraulics Wing to serve as an equipment storage and staging area for an existing laboratory. The new TLMAL which will be located in a vacant area will be approximately 63m² and work will include new demising walls, flooring and ceilings as well as new HVAC, domestic and sanitary and electrical services.

Central Exhaust System (CES) – A & L Building

A new central exhaust system will be constructed in the south core of the A & L Building. The system will consist of a new vertical exhaust duct in a fire rated shaft running from the 4th floor up to the roof of the South Service Core. New exhaust headers will be provided at the upper level of each service core on floors 4 to 7 to connect to the new riser. A number of existing fume hood exhausts from labs on floors 4 to 7 will have the existing exhaust risers decommissioned and be connected to the new exhaust header. A new roof mounted exhaust fan will be required on a new structural steel platform.

Wastewater Technology Centre (WTC) New Boiler Room

The Wastewater Technology Centre (WTC) will have a new hot water heating system for that building to replace the existing steam system. A new enclosed mechanical penthouse of approximately 40m² will be constructed on the south side of the existing WTC main roof and be connected to the existing penthouse. The new penthouse will be constructed of steel framing and metal cladding similar to the existing siding. The new heating plant will consist of three high efficiency condensing boilers with circulating pumps and chimney and a new gas fired humidification system will be installed on the existing air handling system to serve the WTC. The existing high

pressure steam line from the NWRI building boiler plant through the Service Tunnel and associated pressure reducing valves, heat coils and related equipment will be removed after construction of the new Boiler Plant. Removal of asbestos containing materials (ACM) on the existing steam line will be required. The work must be scheduled to maintain heating within the WTC.

Air Handling Units Refurbishment and Replacement

A number of existing air handling units (AHU) No.01, No. 03, No. 05 and No. 43 will be replaced or refurbished as part of the upgrade project. The work on the AHUs must be scheduled to maintain operations in the facilities at all times other than shutdowns approved by the Departmental Representative.

AHU 01

Air Handling Unit (AHU) 01 is a dual system located inside the Mechanical Penthouse of the R&D Wing which serves the general R&D spaces. AHU 01 is a large custom unit to remain and be refurbished. Work will include:

1. New outdoor and exhaust air dampers complete with new actuators. New return dampers, complete with actuators and humidifier complete with new steam to steam generator;
2. Replace existing heating and cooling coils, along with associated valves and pumps and install new drains trays in the plenum and humidification section;
3. New fan array technology including VFDs and duct connections at fan cabinet inlet and outlet;
4. Refurbish and refinish surfaces of the air handlers, concrete floors and exhaust louvers replaced;
5. Existing AHU to be operable at all times and schedule to be coordinated with Departmental Representative.

AHU 03 and AHU 05

AHU 03 is constant volume 100% outdoor air handling unit which serves the Wild Life Evidence Room in the R&D Building on the ground floor. The supply fan is rated for 2,530CFM with a 3HP motor. The space is served by EF23 located in the 3rd floor penthouse, as specified the fan is rated for 2,400CFM. It will be replaced with a new unit equipped with at hot water heating coils and chilled water cooling coils, back-up DX coils, filter section, VFC/VSD controls, electric/electronic sensors and control elements, and humidifier. AHU03 shall remain as 100% outdoor air, the existing exhaust fan serving the space shall be replaced and provided with a heat recovery loop complete with a heat recover glycol coil. Exhaust air in the space shall be modified to assure the live sample storage room is maintained under negative pressure at all times. The new unit will be replaced as near as possible to the existing location to minimize disruption to building operations.

AHU 05 is a dedicated unit serving the Calibration Lab which requires temperature and humidity control, and located in the Mechanical Penthouse of the R&D Building. The existing AHU 05 is a constant volume unit with a supply fan rated at 5,820CFM and 7.5HP motor. It will be replaced with a new unit equipped with at hot water heating coils and chilled water cooling coils, back-up DX coils, filter section, VFC/VSD controls, electric/electronic sensors and control elements, and humidifier. AHU05 shall remain mixed outdoor air, additional space temperature and humidity sensors shall be provided to monitor the Lab, this will provide better mapping and monitoring of the space conditions. The new unit will be replaced as near as possible to the existing location to minimize disruption to building operations.

New potable water, heating and cooling lines will be modified or provided to suit the new AHU's as well as required electrical work.

AHU 43

Air handling system AHU43 is constant volume mixed air, air handling unit located in a corridor on the mezzanine which serves maintenance shops within the H Wing Building on the ground floor and mezzanine level. The supply fan as specified is rated for 2,660CFM with 3HP motor. The space is served by an inline return fan located next to the unit. The unit is equipped with a pumped chilled water coil, filter section, supply fan section, mixing section. A new AHU 43 will be provided in an existing adjacent mechanical room. Removal of the existing supply fan and associated ductwork and piping will be required to accommodate the new AHU 43.

New potable water, heating and cooling lines will be modified or provided to suit the new AHU's as well as required electrical work.

Designated Substances and Hazardous Materials

A Designated Substances and Hazardous Materials Survey has been completed by Pinchin Ltd. for PWGSC for the areas impacted by the proposed renovations. A number of designated substances and hazardous materials were identified as part of the survey and recommendations regarding removal and remediation during construction have been made.

Schedule and Phasing

The CCIW Complex must remain operational at all times with the exception of Laboratory L527, L530, H158 and TLMAL Storage Room as well as the new office areas. The new Central Exhaust System is to be installed and made operational in order that all chemical fume hoods are operational at all times. The work being undertaken to refurbish or replace the existing AHU's and WTC Heating Upgrade must be coordinated with the Departmental Representative in order that services are maintained at all times unless agreed to by the Departmental Representative. It is

critical that the HVAC remain operational at all times due to the on-going operations of the facilities

4. Security:

Refer to SRCL and security clauses listed in Section 01 of this letter.

5. Estimated Tender Period:

1. Tender Posting: mid August, 2015
2. Tender Closing: mid September, 2015

6. Tentative Schedule:

40% completion by March 31, 2016

Completion by September 30, 2016

7. Proposed Mandatory Requirements:

- a. At bid closing, the Bidder and its demolition and abatement subcontractor must hold a valid Security Clearance as indicated in section 01 of this notification. Failure to comply with this requirement will render the Bid non-compliant and no further consideration will be given to the Bid.
- b. The Successful Bidder's personnel, as well as all other subcontractor(s) and its personnel, who are required to perform any part of the Work pursuant to the subsequent contract must meet the mandatory security requirement as indicated in section 01 of this notification. Individuals who do not have the required level of security will not be allowed on site. It is the responsibility of the successful Bidder to ensure that the security requirements are met throughout the performance of the contract. Canada will not be held liable or accountable for any delays or additional costs associated with the successful Bidder's non-compliance with the mandatory security requirement.
- c. The Bidder must have 2 lab renovation project experience similar in size and scope in the last 10 years.
- d. The Bidder's project manager must have 2 lab renovation project experience similar in size and scope in the last 10 years.

- e. The Bidder's site superintendant must have 2 lab renovation project experience similar in size and scope in the last 10 years.
- f. Qualifications forms will be provided with the tender documents and must be submitted with the Bid.

03) LETTER OF INTEREST RESPONSE

If you would like to apply for DOS at the RELIABILITY STATUS level, please contact as soon as possible:

Ambreen Dhillon

Supply Specialist

4900 Yonge St.

Toronto ON M5V 3Z1

(416) 590-8253

ambreen.dhillon@pwgsc.gc.ca