



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Public Works and Government Services Canada
Canada Place/Place du Canada
10th Floor/10e étage
9700 Jasper Ave/9700 ave Jasper
Edmonton
Alberta
T5J 4C3
Bid Fax: (780) 497-3510

**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
Canada Place / Place du Canada
10th Floor / 10e étage
9700 Jasper Ave / 9700 ave Jasper
Edmonton
Alberta
T5J 4C3

Title - Sujet Sewer Lift Station Upgrade	
Solicitation No. - N° de l'invitation EP922-210257/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client AAFC EP922-210257	Date 2020-07-23
GETS Reference No. - N° de référence de SEAG PW-SPWU-004-11855	
File No. - N° de dossier PWU-0-43021 (004)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-08-04	Time Zone Fuseau horaire Mountain Daylight Saving Time MDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Espedido, Karielen K.	Buyer Id - Id de l'acheteur pwu004
Telephone No. - N° de téléphone (780) 231-4719 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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
EP922-210257/A

Amd. No. - N° de la modif.
005

Buyer ID - Id de l'acheteur
pwu004

Client Ref. No. - N° de réf. du client
AAFC EP922-210257

File No. - N° du dossier
PWU-0-43020

CCC No./N° CCC - FMS No./N° VME

This amendment has been raised with the following changes:

AMENDMENT #005:

REVISED CLOSING DATE TO: 02:00 PM MDT on 2020-08-04.

If your bid has already been forwarded and you wish to revise the same, this revision should reach the Bid Receiving Unit identified on Page 1 before the closing date.

ADDENDUM #004:

The following changes to the tender documents are effective immediately and will form part of the Contract documents:

SPECIFICATIONS & DRAWINGS

-Please delete "Fuel-Fired Furnaces" of Section 23 54 16 from the original Specifications and replace with Section 23 54 16 Rev 01. See attached.

BIDDERS' QUESTIONS & ANSWERS

Q1: Can the make and model of the agitator motors and gear boxes be provided? Or photos of these components?

A1: Agitator Motor: Lincoln A.C Motor, Frame 215T, 10 Hp, 575 V, 60 Hz, 1745 RPM, 3 Ph, Lincoln Code = T-3014. Photo of name plate attached.

Agitator Gear Box: Lightning Model 74Q-10. Photo of name plate attached.

END OF AMENDMENT

Solicitation No. - N° de l'invitation
EP922-210257/A

Amd. No. - N° de la modif.
005

Buyer ID - Id de l'acheteur
pwu004

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PWU-0-43020

CCC No./N° CCC - FMS No./N° VME



Part 1 General

1.1 REFERENCE STANDARDS

- .1 American National Standard Institute (ANSI)/American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
 - .1 ANSI/ASHRAE 52.2-12, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particulate Size (ANSI approved).
- .2 American National Standards Institute (ANSI)/CSA Group
 - .1 ANSI Z21.47/CSA 2.3-12, Gas-Fired Central Furnaces.
 - .2 ANSI Z83.8/CSA 2.6-13, Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces.
- .3 CSA Group
 - .1 CSA B149.1-10, Natural Gas and Propane Installation Code.
 - .2 CSA C22.1-18, Canadian Electrical Code, Part 1 (24th Edition), Safety Standard for Electrical Installations.
 - .3 CSA C22.2 No.24-1993 (R2008), Temperature-Indicating and Regulating Equipment.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for furnace units and parts and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings submitted to the Department Representative for review.
 - .2 Submit manufacturer's written recommendations.
- .4 Sustainable Design Submittals:
 - .1 Construction Waste Management:
 - .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.

1.3 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for make up air unit for incorporation into manual.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Extra Stock Parts:
 - .1 Spare filters: in addition to filters installed immediately prior to acceptance by Departmental Representative, supply 1 complete set of filters for each filter unit or filter bank.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect make up air unit from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Develop Construction Waste Management Plan related to Work of this Section.

Part 2 Products

2.1 GENERAL

- .1 Provide CSA approved, packaged factory assembled unit consisting of cabinet, fan, induced fan, fan motor, intake/exhaust assembly, heat exchanger, combustion chamber, burner, controls, air filter and, condensate drain.
- .2 Certification of components and construction of factory assembled gas-fired unit: to ANSI Z83.8/CSA 2.6 for gas fired duct furnace.
- .3 Certification of components and construction of factory assembled oil-fired unit: to CAN/CSA-B140.4.

2.2 CAPACITY

- .1 AMU-1-1
 - .1 Unit configuration to be an indirect fired, natural gas burning ceiling suspended indoor unit.
 - .2 New unit to utilize existing ceiling mount hardware, if reuse of existing is not possible. Contact the department representative prior to proceeding.
 - .3 The unit is to be equipped with the following options:
 - .1 Insulated blower section
 - .2 Two position motorized damper with manual low limit set.

- .3 Adjustable belt drive supply fan to achieve the performance indicated below.
- .4 AMU-1-1 is to be interlocked with exhaust fans as indicated on the Mechanical Plan Set.
- .5 If existing vibration isolation is not reusable unit is to be provided with new vibration isolation hardware suitable for the application.
- .4 Output: 26.37 kW at a geodetic elevation of 910 meters.
- .5 Air flow rate: 500 L/s standard air.
- .6 External static pressure: 186 Pa.
- .7 Natural Gas Input: 32.96 kW.
- .8 Electrical characteristics: 120 V, 60 Hz, 1 Ph
- .9 Control Type
 - .1 Manufacturer supplied controller with the following options:
 - .1 Supply fan failure visual indicator
 - .2 Dirty fan filter visual indicator.
 - .3 Audible alarm to notify occupants of any of the above alarms.
- .2 AMU-2-1
 - .1 Unit configuration to be an indirect fired, natural gas burning ceiling suspended indoor unit.
 - .2 New unit to utilize existing ceiling mount hardware, if reuse of existing is not possible. Contact the department representative prior to proceeding.
 - .3 The unit is to be equipped with the following options:
 - .1 Insulated blower section
 - .2 Two position motorized damper with manual low limit set.
 - .3 Adjustable belt drive exhaust fan to achieve the performance indicated below.
 - .4 AMU-2-1 is to be interlocked with exhaust fans as indicated on the Mechanical Plan Set.
 - .5 If existing vibration isolation is not reusable unit is to be provided with new vibration isolation hardware suitable for the application.
 - .4 Output: 26.37 kW at a geodetic elevation of 910 meters.
 - .5 Air flow rate: 500 L/s standard air.
 - .6 External static pressure: 186 Pa.
 - .7 Natural Gas Input: 32.96 kW.
 - .8 Electrical characteristics: 120 V, 60 Hz, 1 Ph
 - .9 Control Type
 - .1 Manufacturer supplied controller with the following options:
 - .1 Supply fan failure visual indicator
 - .2 Dirty fan filter visual indicator.
 - .3 Audible alarm to notify occupants of any of the above alarms.

2.3 TYPE

- .1 Horizontal type with gas burner.

2.4 HEAT EXCHANGER

- .1 Primary: heavy duty aluminized steel tube with aluminum fins.
- .2 Secondary: aluminized steel tube with aluminum fins.
- .3 Warranty: 1 Year

2.5 COMBUSTION CHAMBER

- .1 Sealed type: 100% outside air, to ANSI Z21.47/CSA 2.3.

2.6 CIRCULATION BLOWER MOTOR ASSEMBLY

- .1 Blower: centrifugal type:
 - .1 Statically and dynamically balanced.
 - .2 Rubber mounted.
 - .3 Speed adjustment: adjustable V-belt sheave.
- .2 Motor: 190 W motor, variable speed , overload protection, adjustable mounts.

2.7 AIR FILTER(S)

- .1 Filter(s): 508 mm by 508 mm with a minimum thickness of 51 mm or as specified by the manufacturer to satisfy a face velocity of 0.96 m/s.
- .2 Filter to be a replaceable media type filter with a rating of MERV 3 or greater.
- .3 Media filter to be mounted within a metal frame.

2.8 HEATER BURNER

- .1 General: to bear CSA and ULC labels.
- .2 Gas burner:
 - .1 Continuous port steel or multi-slotted, non-clogging cast iron with adjustable combustion air supply.

2.9 INTAKE AND VENT ASSEMBLY

- .1 Intake and venting piping to be in accordance with CSA B149.

2.10 CONDENSATE DRAIN

- .1 Provide PVC condensate drain trap.

2.11 CONTROLS

- .1 General: conform to CSA C22.2 No.24.

- .2 Gas firing:
 - .1 Operating controls:
 - .1 Heating-cooling thermostat.
 - .2 Electronic pilot ignition.
 - .3 Manual main shut-off valve, automatic safety pilot, automatic electric valve and gas pressure regulator.
 - .4 With alarm for dirty filter and unit malfunction.
 - .2 Safety controls:
 - .1 Electronic combustion control relay with flame rectification sensor to detect and supervise flame by shutting off fuel upon flame failure or safety interlock signal within seconds, in sequence pre-purge-pilot ignition, supervision-main valve opening-pilot cut-off-burner operation and roll out switch.
 - .2 Blocked vent shut-off switch or control system.
 - .3 Limit control to shut down furnace if heat exchanger temperature exceeds limit setting. Combination fan and limit control to be spiral wound.
 - .4 Door interlock switch on fan compartment access panel to shut down furnace when panel is removed.
 - .5 Electronic board built-in diagnostics.

Part 3 Execution

3.1 INSTALLATION

- .1 Install in accordance with manufacturer's instructions, regulations of authorities having jurisdiction and to CSA B149.1.
- .2 Provide Departmental Representative written report of test results.

3.2 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

END OF SECTION