

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 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Recycle Gas Compressor	
Solicitation No. - N° de l'invitation 23375-160072/A	Date 2015-06-18
Client Reference No. - N° de référence du client 23375-160072	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-924-67527	
File No. - N° de dossier hp924.23375-160072	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-07-29	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: Tessier, Sébastien	Buyer Id - Id de l'acheteur hp924
Telephone No. - N° de téléphone (819) 956-4017 ()	FAX No. - N° de FAX (819) 953-2953
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

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

Issuing Office - Bureau de distribution
Vehicles & Industrial Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

Delivery Required - Livraison exigée See Herein	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



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	NATURAL RESOURCES CANADA 1 HAANEL DRIVE OTTAWA ON K1A 1M1 ATT: Symonds , Robert	I - 1	INVOICING-FACTURATION@NRCAN-RNCAN.GC.CA



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Recycle Gas Compressor System in accordance with "Annex A - Recycle Gas Compressor Requirement and Specifications" attached hereto.	D - 1	I - 1	1	Each	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	
2	Start up and Training In accordance with "Annex A - Recycle Gas Compressor Requirement and Specifications" attached hereto.	D - 1	I - 1	1	Lot	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	

Solicitation No. - N° de l'invitation

23375-160072/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hp92423375-160072

Buyer ID - Id de l'acheteur

hp924

CCC No./N° CCC - FMS No/ N° VME

23375-160072

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PART 1 - GENERAL INFORMATION

1. Requirement

The requirement is detailed under the “Line Item Detail”.

2. Debriefings

Bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

3. Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) Manual issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) days

1.1 SACC Manual Clauses

B1000T	Condition of Material - Bid	2014-06-26
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2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered to all

bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

5. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement, for this solicitation:

The successful bidder will be requested, after contract award, to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority or the Procurement Authority, thereby reducing printed material.

Bidders should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section 1: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

1. Equivalent Products

- 1.1 Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
 - (a) designates the brand name, model and/or part number of the substitute product;
 - (b) states that the substitute product is fully interchangeable with the item specified;
 - (c) provides complete specifications and descriptive literature for each substitute product;
 - (d) provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and

- (e) clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.

1.2 Products offered as equivalent in form, fit, function and quality will not be considered if:

- (a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
- (b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.

1.3 In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

Section II: Financial Bid

1. Pricing

Bidders must submit their financial bid in accordance with the Basis of Payment specified in Part 6.

The Bidder must submit firm unit prices in "Line Item Detail". Prices should not be indicated in any other section of the bid.

SACC Manual Clauses

3.1 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450](#), Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

-
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
 4. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](#), for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
 5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

1. Certifications :

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

Canada requests that bidders submit the following information:

1. Delivery Date

Item 001:

While delivery is requested by December 30th, 2015,

The best delivery that could be offered is:

_____ **Weeks/Calendar days** from the effective date of the contract.

Item 002:

While delivery is requested by February 29th, 2016,

The best delivery that could be offered is:

_____ **Weeks/Calendar days** from the effective date of the contract.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical Evaluation

1.1.1 Bidders must submit, with their bid , the followings document:

- 1) Annex “A”- Recycle Gas Compressor – Requirements and Specifications

1.1.2 Equivalent Products

Bidders proposing substitutes and/or alternatives must provide with their bid all the information requested as detailed in Part 3, “equivalent products” to be considered for evaluation.

1.2. Financial Evaluation

1.2.1 Mandatory Financial Evaluation Criteria

The price of the bid must be in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, Canadian Custom Duties and Excise Taxes included where applicable and Applicable Taxes extra.

2. Basis of Selection

A bid must comply with all requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest evaluated price on an aggregate basis will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions [2003](#). The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

2.1 Substitute and Equivalent Products Conformance Certification

The Bidder certifies that all Equivalent Products and Substitute Products proposed conform to the requirement detailed under the “Line Item Detail”.

This certification does not relieve the bid from meeting the requirement detailed in Part 3, Section I, Substitute Products.

Bidder's authorized representative Signature

Date

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this contract.

2. Requirement

The Contractor must provide the items detailed under the “Line Item Detail”.

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2014-11-27) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

The Contractor must make the delivery as follows:

Item 001: must be delivered on or before _____ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 002: must be delivered on or before _____ (Date to be inserted by the Contracting Authority at time of contract award.)

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Sebastien Tessier

Title: Supply Officer

Public Works and Government Services Canada - Acquisitions Branch

LEFT Directorate, HP Division,

7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec. K1A 0S5

Telephone: 819 956-4017

Facsimile: 819 953-2953

E-mail address: Sebastien.Tessier@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)

Title: _____

Organization: _____

Address _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Technical Authority

The Technical Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)
 Title: _____
 Organization: _____
 Address _____

 Telephone: _____ - _____ - _____
 Facsimile: _____ - _____ - _____
 E-mail: _____

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.4 Contractor's Representative

Name and telephone number of the person responsible for :

General enquiries

Name: _____ (To be completed by the bidder.)
 Title: _____
 Telephone: _____ - _____ - _____
 Facsimile: _____ - _____ - _____
 E-mail: _____

Delivery follow-up

Name: _____ (To be completed by the bidder.)
 Title: _____
 Telephone: _____ - _____ - _____
 Facsimile: _____ - _____ - _____
 E-mail: _____

6. Payment

6.1 Basis of Payment -Firm Unit Price

- 6.1.1 In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), as specified in "Line Item Detail".
- 6.1.2 All firm unit prices in Canadian dollars must be Delivery Duty Paid (DDP) at destination, Incoterms 2000, including Canadian Custom Duties and Excise taxes where applicable, and applicable Taxes are extra.
- 6.1.3 Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.2 SACC Manual Clauses

C2000C	Taxes - Foreign-based Contractor	2007-11-30
H1001C	Multiple Payments	2008-05-12

6.3 Exchange Rate Fluctuation Adjustment (if applicable)

- The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
- The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = FCC \times Qty \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

FCC Foreign Currency Component (per unit)

i_0

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

i_1

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form [PWGSC-TPSGC 450](#), Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form [PWGSC-TPSGC 450](#) (i.e. $[i_1 - i_0] / i_0$).
8. Canada reserves the right to audit any revision to costs and prices under this clause.

7. Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

7.1. Invoices must be distributed as follows:

- (a) The invoice must be forwarded as follows for certification and payment;
 - By email: (To be inserted by PWGSC at time of contract award.)
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

Note 1: Invoices of Delivered Duty Paid, Incoterms 2000 contract will not be submitted prior to shipment of materiel.

8. Certifications

8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) 2010A (2014-11-27) General Conditions - Goods (Medium Complexity);
- (c) Line Item Detail;
- (d) Annex "A" – Recycle Gas Compressor – Requirements and Specifications
- (e) the Contractor's bid dated _____

11. SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9068C	Government Site Regulations	2010-01-11
B1501C	Electrical Equipment	2006-06-16
B7500C	Excess Goods	2006-06-16
D2000C	Marking	2007-11-30
D2001C	Labelling	2007-11-30
D2025C	Wood Packaging Materials	2013-11-06
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2008-05-12

12. Preservation/Packaging/Packing/Marking

Preservation, packaging, packing and marking shall be in accordance with the Contractor's standard domestic commercial practice to ensure safe delivery at destination.

13. Shipping Instructions - DDP Destination

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2000 "DDP Delivered Duty Paid" Ottawa, Ontario.

14. Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

15. Post-Contract Award Meeting/Pre-Production Meeting

Within ten (10) working days of the receipt of the contract, the Contractor must contact the Technical Authority to determine the details of a pre-production meeting. The meeting will be held via teleconference.

16. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement:

The Contractor is requested to provide all correspondence including (but not limited to) documents and reports in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority (I/A) or the Procurement Authority (I/A), thereby reducing printed material.

The Contractor should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

tessie

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

Annex A

Recycle Gas Compressor – Requirements and Specifications

General Information

Natural Resources Canada has a requirement for one (1) recycle gas compressor in support of the oxygen-fired pressurized fluid bed combustion (Oxy-PFBC) pilot-plant facility in Ottawa, Ontario, Canada. The overall objective for Natural Resources Canada is the construction and operation of a 1MW_{th} nominal Oxy-PFBC pilot-plant facility. The successful contractor must supply one (1) recycle gas compressor for flue gas that is suitable for integration into the pilot-plant facility. The installation of the recycle gas compressor will be the responsibility of Natural Resources Canada and not of the successful contractor.

Definitions and Applicable Documents

Definitions

- a. ICFM – inlet cubic feet per minute

Compliance Documents

- a. Technical Standards and Safety Act (TSSA), 2000;
- b. CSA Standard B51-97;
- c. Canadian Electrical Code 2012;
- d. ASME B19.3 – Safety Standard for Compressors for Process Industries;
- e. ASME B31.3 – Process Piping.

Site Specifics

The following information has been provided by Natural Resources Canada to assist with the sizing and selection of equipment.

- a. All equipment to be housed in a heated environment (>10°C) as supplied by Natural Resources Canada;
- b. Size constraints: None.

Available Site Utilities

- a. Instrument air is available at 690 kPa(g) (100 psi(g))
- b. Three phase, 60Hz power voltage is available at 600/575 VAC and 208 VAC
- c. Single phase, 60Hz power voltage is available at 208 VAC and 120/115 VAC

Mandatory Requirements

The successful contractor must meet the mandatory requirements listed below:

Item	Requirement / Specification	Min	Max	Nominal	Compliant (Yes/No)
1	Medium – Recycle flue gas (vol%)				
	CO ₂	60.00	69.00	66.01	
	H ₂ O	27.90	35.00	30.97	
	N ₂	0.30	0.50	0.45	
	O ₂	1.00	3.00	2.00	
	Ar	0.32	0.40	0.32	
	NO/NO ₂	0.05	0.10	0.10	
	SO ₂ /SO ₃	0.03	0.20	0.05	
	HCl	0.01	0.11	0.10	
	Fly Ash (g/kg)	0.10	2.00	1.50	
	Fly Ash (micron)	N/A	10	5	
2	Inlet (suction to compressor) flowrate (ICFM)	150	370	260	
3	Inlet (suction to compressor) temperature (°C)	ambient	250	210	
4	Inlet (suction to compressor) pressure (kPag)	700	1500	1100	
5	Differential pressure over compressor (kPa)	20.7	110.3	82.7	

Additional Mandatory Requirements / Specifications

Item	Requirement / Specification	Mandatory	Compliant (Yes/No)
6	Maximum allowable working pressure must be 400 psi(g) or higher at maximum operating temperature (250°C)	X	
7	All component inlets and outlet must be flanged (ASME B16.5)	X	
8	The equipment and all its parts must be designed so that the system will not be damaged by vibrations caused by operation (ISO 1940/1 G6.3)	X	
9	Lift point(s) suitable for locating equipment by crane	X	
10	All supplied equipment must be suitable for integration with plant control system (ABB Freelance DCS using digital or analog signals, Profibus or Ethernet communication protocol)	X	
11	All motors must be TEFC	X	
12	All motors must be inverter duty rated	X	
13	Power voltage must be either 575 VAC or 208 VAC	X	
14	Control voltage must be 24 VDC	X	

15	CSA approval or equivalent required on all supplied electrical components	X	
16	Inputs and outputs for plant integration must include: 1. Remote run/stop; 2. Remote speed/flowrate control; 3. Remote and local running signal (normally open contact); 4. Remote and local fault signal (normally closed contact).	X	
17	All applicable licenses and/or permits must be included	X	
18	All items must be delivered on a skid	X	
19	The contractor must provide verification documentation of compressor operation upon delivery of the recycle gas compressor package to the client. Documentation to include: flowrate, temperature and pressure at specified suction and operation of all associated instrumentation, gauges, and sensors included in the recycle gas compressor package. The contractor must include detailed test descriptions and results in the documentation package. All testing and verifications to be performed on the finished recycle gas compressor package prior to delivery to the client.	X	
20	One paper and one electronic copy of all installation, operating, and maintenance manuals for supplied equipment and instrumentation (English) must be provided.	X	
21	One paper and one electronic copy of all mechanical and electrical drawings (English) must be provided.	X	
22	The contractor must provide start-up assistance to include basic operator and maintenance training, witness of all control and safety systems and up to a maximum of 6 hours normal operation of the recycle gas compressor. Note: Date of start-up assistance to be determined at pre-production meeting with CanmetENERGY.	X	