



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
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
ATB Place North Tower
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet Vessels	
Solicitation No. - N° de l'invitation 23295-180763/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client 23295-180763	Date 2017-12-21
GETS Reference No. - N° de référence de SEAG PW-\$EDM-014-11279	
File No. - N° de dossier EDM-7-40167 (014)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-29	Time Zone Fuseau horaire Mountain Standard Time MST
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: Lau, Chris	Buyer Id - Id de l'acheteur edm014
Telephone No. - N° de téléphone (780) 566-2195 ()	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

The original solicitation is hereby amended in the following manner:

[DELETE]: The original solicitation in its entirety;

[INSERT]:

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under 6.2 of the resulting contract clauses.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

PART 2 - BIDDER INSTRUCTIONS

2.1 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 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.

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](#) (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

[B1000T](#) (2014-06-26), Condition of Material – Bid

2.2 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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) 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.

2.4 Applicable Laws

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

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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

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) (<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 8.5 x 11 inch (216 mm x 279 mm) 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 I: 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.

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 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.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Failure to meet any of the following mandatory criteria at solicitation closing will render your submission non-compliant and given no further consideration.

1. Ability to meet the Requirement and the Minimum Mandatory Performance Specifications as described in Annex “A” and Annex “B”.

4.1.2 Financial Evaluation

The Total Bid Price will be calculated in the following method:

The unit price quoted for each item will be multiplied by the estimated quantity to arrive at a total price per item. The total prices per item will be aggregated to determine the Total Assessed Bid Price.

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 Mandatory Technical Criteria

SACC Manual Clause [A0031T](#) (2010-08-16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default 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 will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information 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 provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The Contractor must provide the items detailed under the Requirement at Annex "A".

6.3 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](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.

6.3.1 General Conditions

[2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive. (*To be released at contract award*)

6.4.2 Delivery Date

All the deliverables must be received on or before **2018-03-31**.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Christopher Lau
Title: Procurement Specialist
Public Services and Procurement Canada
Acquisitions Branch

5th Floor, ATB Place North
10025 Jasper Ave.
Edmonton, AB T5J1S6

Telephone: 780-566-2195
Facsimile: 780-497-3510

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E-mail address: christopher.lau@pwgsc.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.

6.5.2 Project Authority (*To be released at contract award*)

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ - ____ - _____
Facsimile: ____ - ____ - _____
E-mail address: _____

The Project Authority 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 Project Authority, however the Project 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.

6.5.3 Contractor's Representative (*To be filled in by bidder*)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ - ____ - _____
Facsimile: ____ - ____ - _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices, as specified in Annex "B" for a cost of \$ _____ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

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.

6.6.2 Single Payment

SACC Manual clause [H1000C](#) (2008-05-12), Single Payment

6.6.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. 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.
2. Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.v

6.8.2 SACC Manual Clauses

[A3060C](#) (2008-05-12) Canadian Content Certification

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (*Insert the name of the province or territory as specified by the Bidder in its bid, if applicable*)

6.10 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) the general conditions [2010A](#) (2016-04-04), General Conditions - Goods (medium complexity);
- (c) Annex "A", Requirement;
- (d) Annex "B", Minimum Mandatory Performance Specifications;
- (e) Annex "C", Basis of Payment;
- (f) the Contractor's bid dated _____.

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6.11 SACC Manual Clauses

B7500C (2006-06-16), Excess Goods

G1005C (2016-01-28) Insurance – No Specific Requirement

ANNEX "A"

REQUIREMENT

1. TITLE

ACQUISITION OF PRESSURE VESSELS

2. BACKGROUND

Natural Resources Canada, CanmetENERGY Devon has a requirement for manufacturing, supply and delivery of three (3) pressure vessels to be used in pilot plant research operations in CanmetENERGY Devon Research Centre. Two (2) units are required of Vessel #1 and one (1) unit is required of Vessel #2

3. ACRONYMS

None

4. APPLICABLE DOCUMENTS & REFERENCES

None

5. REQUIREMENTS

5.1 PRESSURE VESSEL DESIGN SPECIFICATIONS

Vessel #1			
DESIGN CONDITIONS			
Pressure:	4,741.0	kPa_g	
At:	268	°C	
Vacuum:	-100.0	kPa_g	
At:	100.0	°C	
Minimum Design Metal Temp:	-29.0	°C	
At:	4,741.0	kPa_g	
Maximum Liquid Level:	267	mm	
Specific Gravity of Light Phase:	0.527		
Specific Gravity of Heavy Phase:	0.891		
At:	181	°C	
INSULATION			
Type:	Hot		
Fireproofing:			
CONSTRUCTION			
MATERIALS		CORROSION ALLOWANCE	
Shell:	316 Stainless Steel	3.175	mm
Internals:	316 Stainless Steel		mm
Lining/Cladding:			mm
INTERNALS			
DESCRIPTION	NOTES:		
Distributor:	Yes. Refer to drawing		
Catalyst:	None		

Mist Eliminator:	None		
NOTES & SPECIAL CONDITIONS			
Stress Relieve:		Yes (see note below)	
Vessel In Wet Sour Service:		Yes (see note below)	
Steam out Required:			
For wet H2S cracking protection, the hardness of the materials and welds in this service must be controlled (200 BHN max.). Radiography level and hardness testing on piping welds in this service shall be increased to 100%. All vessels in sour wet service will be stress relieved.			

Vessel #2			
DESIGN CONDITIONS			
Pressure:		4,741.0	kPa_g
	At:	268	°C
Vacuum:		-100.0	kPa_g
	At:	100.0	°C
Minimum Design Metal Temp:		-29.0	°C
	At:	4,741.0	kPa_g
Maximum Liquid Level:		267	mm
Specific Gravity of Light Phase:		0.527	
Specific Gravity of Heavy Phase:		0.891	
	At:	181	°C
INSULATION			
Type:	Hot		
Fireproofing:			
CONSTRUCTION			
MATERIALS		CORROSION ALLOWANCE	
Shell:	316 Stainless Steel	3.175	mm
Internals:	316 Stainless Steel		mm
Lining/Cladding:			mm
INTERNALS			
DESCRIPTION	NOTES:		
Distributor:	Yes. Refer to drawing		
Catalyst:	None		
Mist Eliminator:	Yes. Refer to drawing		
NOTES & SPECIAL CONDITIONS			
Stress Relieve:		Yes (see note below)	
Vessel In Wet Sour Service:		Yes (see note below)	
Steam out Required:			
For wet H2S cracking protection, the hardness of the materials and welds in this service must be controlled (200 BHN max.). Radiography level and hardness testing on piping welds in this service shall be increased to 100%. All vessels in sour wet service will be stress relieved.			

5.2 Drawings

Design sketches of the two vessels are attached to this procurement request for reference. Manufacturers shall do all design calculations and submit design report and drawings of all vessels according to the requirements listed in this document.

5.3 Design Requirements

Manufacturer or person constructing or bringing the pressure vessels, pressure piping system or fitting must submit designs, including drawings, calculations and specifications for review and registration. A Canadian Registration Number (CRN) or Pressure Piping number (PP) is issued in accordance with the CSA B51 Code and Boilers and Pressure Vessels Regulation if the design is satisfactory. All pressure vessels shall be constructed to the ASME code and the manufacturer "... has the responsibility of complying with all of the applicable requirements ..." (ASME code Para. U-2(b)). Manufacturers also shall attach a nameplate with ASME designation (U or UM when acquired from a non-Canadian company) and a manufacturers data report.

Minimum specifications for the fabrication of a fitting or vessel:

- Fabricator shall be a holder of a valid registered quality control program for pressure vessels built to the ASME code Section VIII Division 1 as required under the Safety Code Act.
- Materials for the pressure vessels shall be listed on the pressure vessel drawing provided, no changes are allowed without written consent of the purchaser and the QC engineer for CanmetENERGY.
- Fabricator shall register the pressure vessel design with the Alberta Boiler Safety Association (ABSA) as required under the Alberta Safety Code Act.

Documentation provided with the fabricated pressure vessel shall include:

- Manufacturers Data Report, properly signed (and includes Material mill test report and hydrostatic test report)
- Calculations for the pressure vessel
- ABSA stamped "accepted" drawing

In the case of a fitting (generally under 42.5 litres or 1.5 ft3) or small pressure vessels (includes reactors) are to be designed to meet CSA B-51. As above "fittings ... shall be submitted to the regulatory authority" ABSA, for acceptance and registration. (Clause 4.1.1). The fittings also must conform to nameplate stamping system and fitting documentation needs to be gathered so it can be filed.

Documentation provided with fittings shall include the following:

1. Submittal letter to ABSA
2. Approval and registration letter from ABSA with the CRN stamped drawings, calculations, and statutory declaration
3. Material Mill Test Reports
4. NDE Test Reports, if required
5. Physical Test Reports, if required
6. Welding procedure, if required
7. Welders qualification, if required
8. Hydrostatic test report
9. Conform nameplate stamping

6. DELIVERABLES AND DATE OF DELIVERY

On or before 31 March 2018.

7. LANGUAGE OF WORK

English.

8. DELIVERY LOCATION

Natural Resources Canada – CanmetENERGY
1 Oil Patch Drive
Devon, AB T9G 1A8

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Canada

9. TRAVEL

Not required.

10. MEETINGS

Not required.

11. GOVERNMENT SUPPLIED MATERIAL (GSM)

None.

12. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None.

13. SPECIAL CONSIDERATIONS

None.

14. SECURITY

All work is unclassified and contractor will not have access to any classified information.

ANNEX "B"

MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

DELIVERY

All deliverables must be delivered to the specified location on or before **2018-03-31**.

Please indicate below:

Meet Delivery Requirement _____
or
Unable to Meet Delivery Requirement _____

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

A complete list of the minimum mandatory performance specifications are detailed below in the "Compliance Matrix". Bidders are to clearly demonstrate compliance with each mandatory specification.

1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
2. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Compliance Matrix.
3. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
5. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.

Failure to meet each mandatory performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

Requirement:	Manufacturer Offered:	Model number Offered#:
Two units of Vessel #1		
One unit of Vessel #2		

Item No.	CRITERIA	VALUE	MEETS/DOES NOT MEET (bidder must indicate)	Cross Reference: In this column, bidder must cross reference where this technical specification is indicated in their proposal.
M1	Vessel #1 design pressure	Design must meet a design pressure of 4,741.00 kPag at 268°C and vacuum pressure of -100.00 kPag at 100°C		
M2	Vessel #1 minimum design temperature	Design must meet a design temperature of -29°C at 4,741.00 kPag		
M3	Vessel #1 material of construction	Material of construction must be 316 stainless steel		
M4	Vessel #1 corrosion allowance	Must have corrosion allowance of 3.175mm		
M5	Vessel #1 internals	Internals must be designed and manufactured according to the submitted drawings		
M6	Vessel #2 design pressure	Design must meet a design pressure of 4,741.00 kPag at 268°C and vacuum pressure of -100.00 kPag at 100°C		
M7	Vessel #2 minimum design temperature	Design must meet a design temperature of -29°C at 4,741.00 kPag		
M8	Vessel #2 material of construction	Material of construction must be 316 stainless steel		
M9	Vessel #2 corrosion allowance	Must have corrosion allowance of 3.175mm		
M10	Vessel #2 internals	Internals must be designed and manufactured according to the submitted drawings		
M11	Vessel #1 and Vessel #2 design calculation and drawings	Manufacturer must do all design calculations and submit design report and drawings for review and registration. Materials of the vessels must be listed in the drawings provided		
M12	Vessel #1 and Vessel #2 design code	Vessels must be designed and constructed according to ASME code and manufacturers has the responsibility of complying with all of the applicable requirements		
M13	Vessel #1 and Vessel #2 design requirements	Canadian Registration Number (CRN) or Pressure Piping Number (PP) must be issued in accordance with the CSA B51 Code and Boilers and Pressure Vessels Regulation		
M14	Vessel #1 and Vessel #2 fabrication requirement	Fabricator must be a holder of a valid registered quality control program for pressure vessels built to the ASME code Section VIII Division 1 with the authority having jurisdiction		

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001
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edm014
CCC No./N° CCC - FMS No./N° VME

M15	Vessel #1 registration	Fabricator must register the pressure vessel desing with the Alberta Boiler Safety Association (ABSA)		
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If upon delivery and acceptance, the product is found not to meet the Minimum Performance Specifications, the product will be returned at the Suppliers expense and the Contract terminated for default.

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ANNEX "C"

BASIS OF PAYMENT

Prices quoted to be Lump Sum Price, FOB Destination, including all delivery and offloading charges. Customs duties are included and Applicable Taxes are extra. GST/HST, if applicable, is to be shown as a separate item on any resulting invoice. Lump Sum Price must include ALL relative costs associated with providing the good in accordance with Annex "A" – Requirement and remain firm for the period of the Contract.

- Firm unit costs are FOB Destination to:

Natural Resources Canada – CanmetENERGY
1 Oil Patch Drive
Devon, AB T9G 1A8
Canada

- Firm Unit Prices do not include GST/HST. GST/HST will be added as a separate line item to any invoice issued as a result of the contract.

Item	Description	Qty.	Firm Unit Price	Extended Price
1	Pressure Vessel #1 as outlined in Annex "A" - Requirement.	2	\$ _____	\$ _____
2	Pressure Vessel #1 as outlined in Annex "A" - Requirement.	1	\$ _____	\$ _____
Total Assessed Bid Price:				\$ _____

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ANNEX "D" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)