



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095**

**Request For a Standing Offer
Demande d'offre à commandes**

National Individual Standing Offer (NISO)
Offre à commandes individuelle nationale (OCIN)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

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
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet Hydraulic System	
Solicitation No. - N° de l'invitation W2037-160041/A	Date 2015-11-04
Client Reference No. - N° de référence du client W2037-160041	GETS Ref. No. - N° de réf. de SEAG PW-\$TOR-302-6955
File No. - N° de dossier TOR-5-38087 (302)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-12-15	
Time Zone Fuseau horaire Eastern Standard Time EST	
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Berends, Robert	Buyer Id - Id de l'acheteur tor302
Telephone No. - N° de téléphone (905)615-2465 ()	FAX No. - N° de FAX (905)615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE Bldg H16, Rm 312 Station Forces Oromocto New Brunswick E2V4J5 Canada	
Security - Sécurité This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;
- Part 3 Offer Preparation Instructions: provides Offerors with instructions on how to prepare their offer to address the evaluation criteria specified;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by Offerors; and
- Part 7 7A, Standing Offer, and 7B, Resulting Contract Clauses:
 - 7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;
 - 7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Requirement and the Basis of Payment.

1.2 Summary

To establish a National Individual Standing Offer (NISO), on behalf of the Department of National Defence (DND), Combat Training Centre (CTC), for the provision of Hydraulic System Training Simulators, on an 'as and when requested' basis.

The period of the Standing Offer is from date of award to March 31, 2018, with the right to request 2 one-year extensions.

Only one Standing Offer will be issued.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 (2015-07-03) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of 2006, Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 90 days

2.2 Submission of Offers

Offers 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 Request for Standing Offers.

2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than 10 calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by Offerors 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 Offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Offerors. Enquiries not submitted in a form that can be distributed to all Offerors may not be answered by Canada.

2.4 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 Offerors.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1. Offer Preparation Instructions

Canada requests that offerors provide their offer in separately bound sections as follows:

Section I: Technical Offer (2 hard copies)

Section II: Financial Offer (1 hard copy)

Section III: Certifications (1 hard copy)

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

Canada requests that Offerors follow the format instructions described below in the preparation of their offer.

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to that of the Request for Standing Offers.

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, Offerors 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 Offer

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

Section II: Financial Offer

Offerors must submit their financial offer in accordance with the Annex B, Basis of Payment. The total amount of Applicable Taxes must be shown separately.

Section III: Certifications

Offerors must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Bidders must demonstrate each and every mandatory listed below or their bid will be considered non-responsive and be disqualified.

Technical information, photos, brochures must be submitted with your proposal at the time of bid closing, to clearly demonstrate the compliance with the technical specifications. In the event that the published documentation does not demonstrate compliance, a written narrative demonstrating compliance will be accepted.

M1	Technical Specifications
1.1	Must stand vertically upright and include lockable swivel castor wheels to permit movement from one location to another without lifting.
1.2	Must be constructed to allow two trainees to perform practically on different activities simultaneously.
1.3	Must include fault insertion to permit troubleshooting activities by each trainee independently. Fault insertion must be controlled electronically via incorporated computer system.
1.4	Must include a hydraulic reservoir large enough to hold sufficient amount of fluid for trainer operation.
1.5	Must include a replaceable spin on filter(s), to filter hydraulic fluid, and include a bypass indicator.
1.6	Must include a hydraulic fluid level indicator.
1.7	Must include a safety system to allow de-energizing and air bleeding of the hydraulic components and systems.
1.8	Main power switches must include overload protection and a lockout/tagout mechanism to prevent safety hazards.
1.9	Must include detachable hydraulic hoses to permit building of hydraulic circuits.
1.10	Must have flat face type quick disconnects on all hoses and components to reduce leakage during removal.
1.11	Must include hydraulic ANSI symbols on each hydraulic valve of the trainer. All ports of each hydraulic component must include alpha numeric identification.
1.12	Must include two (2) fixed displacement, pressure compensated and load sensing hydraulic circuits.
1.13	Must include two (2) fixed mounted temperature gauges to measure hydraulic fluid temperature and ambient temperature.
1.14	Must include two (2) fixed mounted tachometers to measure the speed of hydraulic motors.
1.15	Must include two (2) flowmeters to measure the volume of fluid through components.

1.16	Must include two (2) resettable time devices such as a stopwatch to conduct time measurements of actuators.
1.17	Must include two (2) single rod/double acting cylinders and two double rod/double acting cylinders.
1.18	Must include two (2) hydraulic motors, bi-directional with variable torque.
1.19	Must include two (2) storage compartments for hydraulic hoses when not being used.
1.20	Must include two (2) weighted devices to represent a load
1.21	Must include two (2) solenoid controlled tandem center directional control valves
1.22	Must include four (4) solenoid controlled closed center directional control valves
1.23	Must include two (2) solenoid controlled float center directional control valves
1.24	Must include two (2) monoblock directional control valves with hand operated lever.
1.25	Must include two (2) adjustable counterbalance valves.
1.26	Must include two (2) adjustable pilot operated pressure relief valves.
1.27	Must include two (2) adjustable sequence valves.
1.28	Must include two (2) adjustable pressure reducing valves.
1.29	Must include two (2) adjustable direct operated pressure relief valves.
1.30	Must include two (2) adjustable needle valves.
1.31	Must include two (2) adjustable flow control valves.
1.32	Must include two (2) adjustable pressure compensated flow control valves.
1.33	Must include a minimum of two (2) pressure gauges with flat face type quick disconnects.

1.34	Must include two (2) pressure leak test pumps.
1.35	Must include two (2) hydraulic accumulator systems a. Must be capable of being disconnected from the main hydraulic trainer without affecting the operation of the main hydraulic trainer. b. Must include a differential pressure unloading valve. c. Must include a gauge to indicate accumulator oil pressure. d. Must include a bleed off device to release stored energy
1.36	Must include two (2) Mobile Directional Control Hydraulic Systems a. Must be capable of being disconnected from the main hydraulic trainer without affecting the operation of the main hydraulic trainer. b. Must include diagnostic capability. c. Must include a main pressure relief valve. d. Must include load check valves. e. Must provide directional control of a cylinder and motor.
1.37	Must include two (2) electrical motors must be single phase and operate via 120 Volts AC.
1.38	Electric motors must be CSA (or equivalent) approved.
1.39	Must be no more than 80" tall, 52" wide and 32" deep (208 cm x 135.5 cm to 83.5 cm)

4.2 Financial Evaluation

4.2.1 Bidders must submit a completed Annex B, Basis of Payment, with their bid at the time of bid closing.

4.2.2 The price used in the evaluation will be the aggregate of the 5 locations for both items for the firm periods and the extension periods as detailed in Annex B, Basis of Payment.

4.2.3 The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded. FOB destination, Canadian customs duties and excise taxes included.

4.3 Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by Offerors to Canada are subject to verification by Canada at all times. Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Offeror must provide with its offer, a completed Declaration Form (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer non-responsive.

5.2.1 Integrity Provisions – List of Names

Offerors who are incorporated, including those submitting offers as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Offeror.

Offerors submitting offers as sole proprietorship, as well as those submitting offers as a joint venture, must provide the name of the owner(s).

Offerors submitting offers as societies, firms or partnerships do not need to provide lists of names.

5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror 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-Labour's website.

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

6.1 Offer

6.1.1 The Offeror offers to fulfill the requirement in accordance with the Requirement at Annex A.

6.2 Security Requirements

6.2.1 There is no security requirement applicable to this Standing Offer.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2005 (2015-09-03) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

6.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods, services or both to the federal government under contracts resulting from the Standing Offer. This data must include all purchases, including those paid for by a Government of Canada Acquisition Card.

If some data is not available, the reason must be indicated. If no goods or services are provided during a given period, the Offeror must still provide a "nil" report.

The data must be submitted on a quarterly basis to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31;
- 4th quarter: January 1 to March 31.

The data must be submitted to the Standing Offer Authority no later than 15 calendar days after the end of the reporting period.

6.4 Term of Standing Offer

6.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is from date of award to 31 March 2018.

6.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for 2 additional one- periods, from 1 April 2018 to 31 March 2019 and from 1 April 2019 to 31 March 2020, under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority 3 days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

6.5. Authorities

6.5.1 Standing Offer Authority

The Standing Offer Authority is:
Robert Berends
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
33 City Centre Drive, Suite 480C
Mississauga, Ontario
L5B 2N5
Telephone: 905-615-2465
E-mail address: robert.berends@pwgsc-tpsgc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

6.5.2 Project Authority

The Project Authority for the Standing Offer is:

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

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

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

6.5.3 Offeror's Representative

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

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

6.6 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: _____.

6.7 Call-up Procedures

Offeror will confirm receipt of call-up and ability to provide requested product by the requested delivery date within 2 working days.

6.8 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form PWGSC-TPSGC 942, Call-up Against a Standing Offer.

6.9 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$250,000.00 (Applicable Taxes included).

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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2015-09-03) General Conditions - Standing Offers - Goods or Services;
- e) the general conditions 2010A (2015-09-03) Goods (Medium Complexity)
- f) Annex A, Requirement;
- g) Annex B, Basis of Payment;
- h) the Offeror's offer dated _____.

6.11 Certifications

6.11.1 Compliance

The continuous compliance with the certifications provided by the Offeror with its offer and the ongoing cooperation in providing additional information are conditions of issuance of the Standing Offer (SO). Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO. If the Offeror does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

6.12 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

6.1 Requirement

The Contractor must provide the items detailed in the call-up against the Standing Offer.

6.2 Standard Clauses and Conditions

6.2.1 General Conditions

2010A (2015-09-03) General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

6.3 Term of Contract

6.3.1 Delivery Date

Delivery must be made within 90 calendar days from receipt of a call-up against the Standing Offer.

6.4 Payment

6.4.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price as specified in Annex B, Basis of Payment. 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.

6.5 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:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

Solicitation No. - N° de l'invitation
W2037-160041
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR 5-38087

Buyer ID - Id de l'acheteur
TOR302
CCC No./N° CCC - FMS No./N° VME

6.6 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

ANNEX A

REQUIREMENT

1 General

The Department of National Defence (DND) Combat Training Centre (CTC), on behalf of the Royal Canadian Electrical and Mechanical Engineers School (RCEME School), has a requirement to procure hydraulic system training simulators.

2 Scope

CTC/RCEME School requires an Offeror to supply and deliver hydraulic systems training simulators to Canadian Forces Base (CFB) Borden in Borden, Ontario.

The RCEME School includes satellite On the Job Training centres across Canada. These training centres are located in Edmonton, AB., Petawawa, ON, Valcartier, QC and Gagetown, NB. As a result, the Offeror may be required to deliver hydraulic systems to these locations.

3 Specifications

The Offeror must provide hydraulic system training simulators which meet the following criteria at time of delivery. Each side of the trainer must contain the same components, functions, and capabilities. Where the number of a component per trainer is identified, if attached, the number must be divided equally between both sides of the trainer.

3.1 General Technical Specifications

- 3.1.1 Must stand vertically upright and include lockable swivel castor wheels to permit movement from one location to another without lifting.
- 3.1.2 Must be constructed to allow two trainees to perform practically on different activities simultaneously.
- 3.1.3 Must include fault insertion to permit troubleshooting activities by each trainee independently. Fault insertion must be controlled electronically via incorporated computer system.
- 3.1.4 Must include a hydraulic reservoir large enough to hold sufficient amount of fluid for trainer operation.
- 3.1.5 Must include a replaceable spin on filter(s), to filter hydraulic fluid, and include a bypass indicator.
- 3.1.6 Must include a hydraulic fluid level indicator.
- 3.1.7 Must include a safety system to allow de-energizing and air bleeding of the hydraulic components and systems.
- 3.1.8 Main power switches must include overload protection and a lockout/tagout mechanism to prevent safety hazards.
- 3.1.9 Must include detachable hydraulic hoses to permit building of hydraulic circuits.
- 3.1.10 Must have flat face type quick disconnects on all hoses and components to reduce leakage during removal.
- 3.1.11 Must include hydraulic ANSI symbols on each hydraulic valve of the trainer. All ports of each hydraulic component must include alpha numeric identification.

- 3.1.12 Must include two (2) fixed displacement, pressure compensated and load sensing hydraulic circuits.
- 3.1.13 Must include two (2) fixed mounted temperature gauges to measure hydraulic fluid temperature and ambient temperature.
- 3.1.14 Must include two (2) fixed mounted tachometers to measure the speed of hydraulic motors.
- 3.1.15 Must include two (2) flowmeters to measure the volume of fluid through components.
- 3.1.16 Must include two (2) resettable time devices such as a stopwatch to conduct time measurements of actuators.
- 3.1.17 Must include two (2) single rod/double acting cylinders and two double rod/double acting cylinders.
- 3.1.18 Must include two (2) hydraulic motors, bi-directional with variable torque.
- 3.1.19 Must include two (2) storage compartments for hydraulic hoses when not being used. Storage compartments cannot interfere with normal operation of the trainer.
- 3.1.20 Must include two (2) weighted devices to represent a load.
- 3.1.21 Directional Control Valves
 - a. Must include two (2) solenoid controlled tandem center directional control valves
 - b. Must include four (4) solenoid controlled closed center directional control valves
 - c. Must include two (2) solenoid controlled float center directional control valves
 - d. Must include two (2) monoblock directional control valves with hand operated lever.
- 3.1.22 Additional Valves
 - a. Must include two (2) adjustable counterbalance valves.
 - b. Must include two (2) adjustable pilot operated pressure relief valves.
 - c. Must include two (2) adjustable sequence valves.
 - d. Must include two (2) adjustable pressure reducing valves.
 - e. Must include two (2) adjustable direct operated pressure relief valves.
 - f. Must include two (2) adjustable needle valves.
 - g. Must include two (2) adjustable flow control valves.
 - h. Must include two (2) adjustable pressure compensated flow control valves.
- 3.1.23 Must include a minimum of two (2) pressure gauges with flat face type quick disconnects.
- 3.1.24 Must include two (2) pressure leak test pumps.
- 3.1.25 Must include two (2) hydraulic accumulator systems
 - a. Must be capable of being disconnected from the main hydraulic trainer without affecting the operation of the main hydraulic trainer.
 - b. Must include a differential pressure unloading valve.
 - c. Must include a gauge to indicate accumulator oil pressure.
 - d. Must include a bleed off device to release stored energy.
- 3.1.26 Must include two (2) Mobile Directional Control Hydraulic Systems

- a. Must be capable of being disconnected from the main hydraulic trainer without affecting the operation of the main hydraulic trainer.
- b. Must include diagnostic capability.
- c. Must include a main pressure relief valve.
- d. Must include load check valves.
- e. Must provide directional control of a cylinder and motor.

3.1.27 Must include two (2) electrical motors must be single phase and operate via 120 Volts AC.

3.1.28 Electric motors must be CSA (or equivalent) approved.

3.1.29 Must be no more than 80" tall, 52" wide and 32" deep (208 cm x 135.5 cm to 83.5 cm)

3.2 Performance Requirements

3.2.1 Training - Trainers/simulators must provide a platform for students to perform the following training requirements:

- Diagnose and troubleshoot hydraulic systems.
- Build hydraulic circuits from schematic data.
- Observe and understand the inner workings of hydraulic systems.
- Operate hydraulic systems on the training simulator as designed by the Offeror.
- Measure and test hydraulic systems and components on the training simulator.

3.2.2 Manipulate or move the training aid - Training simulators must be capable of being placed in different locations as deemed necessary to facilitate training. Steering castors must allow for easy manoeuvrability.

3.2.3 Test components – Training simulators must be responsive to the test procedures outlined in the supplied course training material and be receptive to the supplied hydraulic test equipment. Testing of components will be directed from RCEME School and conducted in accordance with the manufacturer's procedures.

3.3 Additional Requirements

3.3.1 The vendor must grant the RCEME School permission to amend the names of components on the training simulator as may be required for training purposes.

3.3.2 All training simulators must have at a minimum two (2) years standard parts, labour, and manufacturer's defects warranty.

3.3.3 All components, where feasible, are to be permanently mounted on the hydraulic trainer (vertically) in front of the student to ensure ease of access and visually. Accessories and/or "Add On" components are excluded.

4 Training

4.1 The manufacturer will provide training to appropriate Subject Matter Experts (SMEs) in support of maintenance and any accompanying software if and when requested. Training will cover the complete training packages and shall include at a minimum:

4.1.1 General maintenance procedures

4.1.2 Troubleshooting capabilities

4.1.3 Fault insertion procedures

4.1.4 Software Upgrades

- 4.2 All Offeror supplied training will occur either at the Offeror's parent facility or on site, as required by the call-up.
- 4.3 Additional telephone/email support will be required from the manufacturer from Monday to Friday, 8am to 4 pm EST, on an as needed basis during initial orientation and training of instructional staff by RCEME School SMEs.
- 4.4 Pricing associated with training must be all inclusive and contain all materials and associated costs.

5 **Transportation**

5.1 **Costs**

The Offeror must ship the goods prepaid, FOB destination.

5.2 **Destination Address**

The primary delivery address shall be the RCEME School, located at CFB Borden, Ontario. Additional delivery locations, should they be required, shall include 3rd Canadian Division Support Base (3 CDSB) Edmonton, AB, Garrison Petawawa, ON, Valcartier Garrison, QC and 5th Canadian Division Support Base (5 CDSB) Gagetown, NB

5.3 **Delivery Schedule**

Delivery will be made within 90 days of receipt of call-up or as required by the call-up. If a delay occurs due to unforeseen circumstances, the POC must be contacted immediately for a revised completion date to be set.

6 **Constraints**

- 6.1 Offeror will confirm receipt of call-up and ability to provide requested product by the requested delivery date within two (2) working days.
- 6.2 Offeror will supply all necessary equipment, resources and materials for the complete execution of the call-up, unless otherwise instructed.

Solicitation No. - N° de l'invitation
W2037-160041
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR 5-38087

Buyer ID - Id de l'acheteur
TOR302
CCC No./N° CCC - FMS No./N° VME

ANNEX B
BASIS OF PAYMENT

All prices are in Canadian dollars, freight and Canadian customs duties included, FOB Destination. The total amount of Applicable Taxes is extra and must be shown separately.

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FIRM PERIOD:

Firm Period 1 – From date of standing offer issuance to 31 March 2017

Item No.	Description	Firm Unit Price Delivery to CFB Borden	Firm Unit Price Delivery to 3 CDSB Edmonton	Firm Unit Price Delivery to Garrison Petawawa	Firm Unit Price Delivery to Garrison Valcartier	Firm Unit Price Delivery to 5 CDSB Gagetown
01	For the supply and delivery of Hydraulic Simulation Trainers, in accordance with the specifications detailed in Annex A, and any other item or service required to complete the system as specified in Annex A. Manufacturer: Make and Model:	\$	\$	\$	\$	\$

Item No.	Description	Firm Price Delivery at CFB Borden	Firm Price Delivery at Offerors Location	Firm Price Delivery at 3 CDSB Edmonton	Firm Price Delivery at Garrison Petawawa	Firm Price Delivery at Garrison Valcartier	Firm Price Delivery at 5 CDSB Gagetown
02	For the supply of Training Services, in accordance with section 4 of Annex A. Pricing will be all inclusive and contain all materials and associated costs.						

Firm Period 2 – From 01 April 2017 to 31 March 2018

Item No.	Description	Firm Unit Price Delivery to CFB Borden	Firm Unit Price Delivery to 3 CDSB Edmonton	Firm Unit Price Delivery to Garrison Petawawa	Firm Unit Price Delivery to Garrison Valcartier	Firm Unit Price Delivery to 5 CDSB Gagetown
01	For the supply and delivery of Hydraulic Simulation Trainers, in accordance with the specifications detailed in Annex A, and any other item or service required to complete the system as specified in Annex A. Manufacturer: Make and Model:	\$	\$	\$	\$	\$

Item No.	Description	Firm Price Delivery at CFB Borden	Firm Price Delivery at Offerors Location	Firm Price Delivery at 3 CDSB Edmonton	Firm Price Delivery at Garrison Petawawa	Firm Price Delivery at Garrison Valcartier	Firm Price Delivery at 5 CDSB Gagetown
02	For the supply of Training Services, in accordance with section 4 of Annex A. Pricing will be all inclusive and contain all materials and associated costs.						

EXTENSION PERIODS:

Extension Period 1 – From 01 April 2018 to 31 March 2019

Item No.	Description	Firm Unit Price Delivery to CFB Borden	Firm Unit Price Delivery to 3 CDSB Edmonton	Firm Unit Price Delivery to Garrison Petawawa	Firm Unit Price Delivery to Garrison Valcartier	Firm Unit Price Delivery to 5 CDSB Gagetown
01	For the supply and delivery of Hydraulic Simulation Trainers, in accordance with the specifications detailed in Annex A, and any other item or service required to complete the system as specified in Annex A. Manufacturer: Make and Model:	\$	\$	\$	\$	\$

Item No.	Description	Firm Price Delivery at CFB Borden	Firm Price Delivery at Offerors Location	Firm Price Delivery at 3 CDSB Edmonton	Firm Price Delivery at Garrison Petawawa	Firm Price Delivery at Garrison Valcartier	Firm Price Delivery at 5 CDSB Gagetown
02	For the supply of Training Services, in accordance with section 4 of Annex A. Pricing will be all inclusive and contain all materials and associated costs.						

Extension Period 2 – From 01 April 2019 to 31 March 2020

Item No.	Description	Firm Unit Price Delivery to CFB Borden	Firm Unit Price Delivery to 3 CDSB Edmonton	Firm Unit Price Delivery to Garrison Petawawa	Firm Unit Price Delivery to Garrison Valcartier	Firm Unit Price Delivery to 5 CDSB Gagetown
01	For the supply and delivery of Hydraulic Simulation Trainers, in accordance with the specifications detailed in Annex A, and any other item or service required to complete the system as specified in Annex A. Manufacturer: Make and Model:	\$	\$	\$	\$	\$

Item No.	Description	Firm Price Delivery at CFB Borden	Firm Price Delivery at Offerors Location	Firm Price Delivery at 3 CDSB Edmonton	Firm Price Delivery at Garrison Petawawa	Firm Price Delivery at Garrison Valcartier	Firm Price Delivery at 5 CDSB Gagetown
02	For the supply of Training Services, in accordance with section 4 of Annex A. Pricing will be all inclusive and contain all materials and associated costs.						