

**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 VIBRATION MACHINE SLIP TABLE UPGR.	
Solicitation No. - N° de l'invitation W8486-152278/A	Date 2015-05-11
Client Reference No. - N° de référence du client W8486-152278	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-915-67275	
File No. - N° de dossier pv915.W8486-152278	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-06-22	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: Gosselin, Monique	Buyer Id - Id de l'acheteur pv915
Telephone No. - N° de téléphone (819) 956-3803 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE C/O QETE WAREHOUSE 819-994-1819 RAMP 8, ROOM C-1113 45 SACRE-COEUR BLVD. GATINEAU QC J8X 1C6 CANADA	

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

Scientific, Medical and Photographic Division / Division de
l'équipement scientifique, des produits photographiques et
pharmaceutiques
11 Laurier St./ 11 rue, Laurier
6B1, Place du Portage
Gatineau, Québec K1A 0S5

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

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PART 1 - GENERAL INFORMATION

1.1 There is no security requirement associated with this bid solicitation.

1.2 Requirement

The requirement is detailed under Article 6.2.1 of the resulting contract clauses.

1.5 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

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>) 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

2.1.1 SACC Manual Clauses

B1000T	Condition of Material	2014-06-26
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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 ten (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 questions 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 the province of Ontario, Canada.

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

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 (two (2) copies)
Section II: Financial Bid (one (1) 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:

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 follow the format instructions described below in the preparation of their offer:

- 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;
- 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; and
- 3) use a numbering system that corresponds to that of the Request for Standing Offers.

Section I: Technical Bid

The following applies to the Requirement and bidders must provide the following information in the bid:

3.1.1 Installation / Commissioning

On-site installation / commissioning must be provided and be carried out by a qualified service technician. All costs associated with the on-site installation / commissioning must be included in the price.

State your best installation / commissioning schedule. Installation / commissioning will be carried out within _____ calendar days of delivery and be completed within _____ calendar days.

3.1.2 Training

On-site user training must be provided for up to six (6) users. All costs associated with the on-site training must be included in the price.

On-site training will be completed within 30 calendar days of installation / commissioning.

Agreed: Yes _____

Provide complete details of training e.g. duration, scope, etc.,

3.1.3 Service

Purchase of the system must include: technical support; technical phone support; support via the Internet; and support via a fax-back document system. Service cost must be included in the price.

Response for service must be within 48 hours or less.

Also, provide the following with your bid (for information purposes only):

a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.

b) Locations of available replacement parts from consumables to major components.

c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

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3.1.4 Product(s) Offered

The Bidder must indicate the make and model number of the products offered (identify specific components which make up the system):

Name of Manufacturer: _____
Model/Part Number: _____
Literature attached: Yes (_____) No (_____)

3.1.5 Point of Manufacture/Shipping

The Bidder must state the point of manufacture/shipping of goods:

Location: _____
Postal Code: _____

3.1.6 Delivery

While delivery is requested by 1st September 2015, the best delivery that could be offered by the Bidder is _____.

3.1.7 Contacts

Bidders are requested to provide the following: Information pertaining to Article 6.5.4, Contractor Representatives under Part 6, Resulting Contract Clauses.

Section II: Financial Bid

The bidder must quote a firm lot price all inclusive of supply, installation/ commissioning, training, service and manuals, DDP (Gatineau, Quebec), the total amount of applicable taxes must be shown separately. Freight charges to destination and all applicable Customs duties and Excise taxes must be included.

3.2.1 Exchange Rate Fluctuation

C3011T Exchange Rate Fluctuation (without protection) 2013-11-06

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

All proposals submitted must be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. If the requirement is not addressed in the bidder's proposal, the proposal will be considered incomplete or non-responsive and will be rejected. The onus is on the bidder to provide all the information necessary to ensure a complete and accurate assessment.

Confirm that you have read and understood by checking the: Yes _____

Factors for Evaluation

1. PRICING BASIS (MANDATORY): Prices must be firm, DDP Delivered Duty Paid.
2. ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):
 - a) For Items Defined by Specifications:

The bidder is requested to cross reference the mandatory technical criteria contained herein to their supporting technical documentation.
 - b) Provision of Supporting Technical Documentation:

Supporting technical documentation for the stores offered must be provided with the bid at time of bid closing.

Technical brochures or technical data MUST be provided to verify compliancy to the technical mandatory specifications.

Included: **Yes:** _____

3. COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)
4. Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - (see Part 5).
5. The Bidder must provide proof of at least 5 years experience in electro-dynamic shaker system installation and servicing. This data must be provided in the company biography section thru a listing of previous clients, including date and type of equipment services or installation.

Included: **Yes** _____

6. The Bidder must provide proof of authorization to sell, install and service the offered slip table system. This data must be provided in a letter from the manufacturer of the slip table system stating authorization to sell, install and service the system.

Included: **Yes** _____

7. The Bidder must provide proof of CSA or ULC Certification.
(photocopy of certificate will suffice)

Included: **Yes** _____

4.1.1.1 Mandatory Technical Criteria

See Annex B – Mandatory specifications for a vibration machine slip table

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5.1.2 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.

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 Requirement

6.1.1 There is no security requirement applicable to this contract.

6.2 Requirement

6.2.1 Requirement

The Contractor must provide the items detailed under Annex A – Requirement / Basis of Payment.

TASKS

Phase 1 – Design

The Contractor must prepare a formal vibration slip table design. The design shall be in the form of contractor technical drawings. A project schedule to completion must be also included. Formal design must be submitted for approval by the Technical Authority (TA). For the purpose of completing this phase, the Contractor may conduct an on-site visit to survey the existing electro-dynamic shaker system. Any Contractor onsite visit will be at the contractor's expense.

Phase 2 – Fabrication

On acceptance of the design by the TA the Contractor must fabricate the slip table system

6.2.2 Installation / Commissioning

6.2.2.1 On-site installation / commissioning must be provided and be performed by a qualified service technician.

6.2.2.2 All work must be performed during normal business hours (7:00 am to 5:00 pm), Monday to Friday.

Agreed: Yes _____

6.2.2.3 The Contractor must perform the dis-assembly and disconnection of the current slip table system. The TA will be responsible for the disposal of the slip table.

Agreed: Yes _____

6.2.2.4 The Contractor must demonstrate that the slip table system performs as per the TA requirements.

Agreed: Yes _____

6.2.2.5 The Contractor is responsible for securing and safe guarding tools and materials used on the job-site.

Agreed: Yes _____

6.2.2.6 Authorized DND personnel must have access to the work site at all times.

Agreed: **Yes** _____

6.2.2.7 Quality Engineering Test Establishment (QETE) reserves the right to conduct an acceptance test on the system once the Contractor has completed the commissioning procedure.

Agreed: **Yes** _____

6.2.2.8 The slip table surface when commissioned must be clean, free of grease, contaminants and scratches.

Agreed: **Yes** _____

6.2.3 Drawings / Documentations

6.2.3.1 The Contractor must deliver technical drawings and project schedule documentation at the completion of the design but no later than 60 days after contract award. Documentation must at minimum consist of:

- 6.2.3.1.1 Parts list (2 copies);
- 6.2.3.1.2 Hydraulic schematic (2 copies);
- 6.2.3.1.3 Proposed hydraulic pump make, model and specifications (2 copies);
- 6.2.3.1.4 Drawing of slip table with details of bull nose adapter interface and bolt hole size and pattern to concrete base interface (2 copies); and
- 6.2.3.1.5 Assembly drawing of slip table showing overall dimensions (2 copies).

Agreed: **Yes** _____

6.2.3.2 The Contractor must provide documentation (2 copies) in the form of user manuals for operation and maintenance for the various systems installed.

Agreed: **Yes** _____

6.2.3.3 The Contractor must provide documentation (2 copies) and parts breakdown of all assemblies and subassemblies including any Original Equipment Manufacturer (OEM) documentation.

Agreed: **Yes** _____

6.2.4 Training

On-site user training must be provided for up to six (6) users.

On-site training will be completed within 30 calendar days of installation / commissioning.

6.2.5 Service

Purchase of the system must include: technical support; technical phone support; support via the Internet; and support via a fax-back document system.

Response for service must be within 48 hours or less.

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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before _____ (to be filled in only at contract award).

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Monique Gosselin
Public Works and Government Services Canada
Acquisitions Branch
Commercial Consumer Products Directorate
11 Laurier Street, 6A2, Phase III
Place du Portage, Gatineau, Quebec, K1A 0S5

Telephone: (819) 956-3803
Facsimile: (819) 956-3814
E-mail address: monique.gosselin@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 Technical Authority *(to be filled in only at contract award)*

The Technical Authority for the Contract is:

Name: _____
Telephone: () _____
E-mail address: _____

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

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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 DND Procurement Authority (to be filled in only at contract award)

The DND Procurement Authority for the Contract is:

Name: _____
Telephone: (____) _____
E-mail address: _____

The DND Procurement Authority is responsible for the DND contract management and for the authorization of all work against this contract.

6.5.4 Contractor's Representative (fill in)

The telephone number of the person responsible for:

General enquiries

Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

Delivery Follow-up

Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex A – Requirement / Basis of Payment for a cost of \$_____ (to be filled in only at contract award). Customs duties are included and Applicable Taxes are extra.

6.6.2 Milestone Payments

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment using PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- c. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

6.6.3 Schedule of Milestones

Payment by Canada to the Contractor will be made in accordance with the following schedule:

Milestone No.	Deliverables	Firm Amount	Payment Due
1	Upon completion and acceptance from the Technical Authority of Design.	10% of the overall contract amount	60 days after contract award
2	Upon completion and acceptance from the Technical Authority of commissioning.	90% of the overall contract amount	Upon completion of the installation at the DND Facility, Gatineau, Quebec

6.6.4 SACC Manual Clauses

C2000C	Taxes - Foreign-Based Contractor	2007-11-30
C6000C	Limitation of Price	2001-05-16

6.7 Invoicing Instructions - Progress Payment Claim

1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- a. all information required on form PWGSC-TPSGC 1111;
- b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- c. a list of all expenses;
- d. the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- (a) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
2. Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.
 3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Technical Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Technical Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

4. The Contractor must not submit claims until all work identified in the claim is completed.

6.8 Certifications

6.8.1 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.

6.9 Applicable Laws

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

6.10 Priority of Documents

If there is a discrepancy between the wordings 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) Annex A, Requirement / Basis of Payment;
- (d) Annex B, Mandatory Specifications for a vibration machine slip table;
- (e) Annex B-1, Drawings;
- (f) the Contractor's bid dated _____ (*insert date of bid.*)

6.11 SACC Manual clause

B1501C	Electrical Equipment	2006-06-16
A9062C	Canadian Forces Site Regulations	2011-05-16
A2000C	Foreign Nationals (Canadian Contractor)	2006-06-16
A2001C	Foreign Nationals (Foreign Contractor)	2006-06-16
G1005C	Insurance	2008-05-12
D5328C	Inspection and Acceptance	2014-06-26

6.12 Shipping Instructions

6.12.1 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) (Gatineau, Quebec) Incoterms 2000 for shipments from a commercial contractor.
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

ANNEX A

REQUIREMENT / BASIS OF PAYMENT

The Department of National Defence has a requirement for the supply, installation and commissioning of one (1) Vibration Machine Slip Table with user training for up to 6 people in accordance with the mandatory specifications detailed in the Request for Proposal (RFP) for delivery to Gatineau, Quebec.

Item 1

Description	Unit of Issue	Qty	Firm unit price DDP (Gatineau, Quebec)
Vibration Machine Slip Table in accordance with the mandatory specifications detailed in Annex B with the following constraints.	Lot	1	\$ _____

DND will provide a forklift (rated to 4000 lbs) and qualified forklift operator.

Constraints

The current slip table system (to be replaced by the new slip-table system) is mounted on a concrete base with a ½ inch steel plate affixed to the upper surface. This base must be used for mounting of the new 2.5 inch stroke slip table. The current base is 5 feet x 5 feet and is 26 inches in height. The offered slip table must not exceed the horizontal space limits of the 5 feet x 5 feet base (ie the slip table must not overhang the concrete base and steel plate). Any modifications to the base must be discussed and authorized by the TA. Diagrams provided in Annex B-1.

Agreed: **Yes** _____

The current height from the top of the steel base to the centre-line of the existing hydraulic coupler interface is 9.5 inch nominal. The electro-dynamic shaker and coupler can be height adjusted by ±1 inch. Therefore, the centerline of the hydraulic coupler interface on the proposed slip table system must not be taller than 10.5 inches. The Contractor may drill new mounting holes to the ½ inch steel plate as required. Any modifications to the base must be discussed and authorized by the TA. Diagrams provided in Annex B-1.

Agreed: **Yes** _____

Applicable Documents

Military Standard (MIL-STD)-810G with Change 1, "Environmental Engineering Considerations and Laboratory Tests".

NATO Standardization Agreement (STANAG) 4370, "Environmental Testing".

ANNEX B

MANDATORY SPECIFICATIONS FOR VIBRATION MACHINE SLIP TABLE

QETE has a mandate to deliver integrated cost-effective specialized engineering support services to the Canadian Armed Forces (CAF) and the Department of National Defence (DND) in order for Canada to sustain multi-purpose combat capable forces. To this end, QETE provides a broad range of engineering and applied science services to DND and the CAF. Operating an electro-dynamic shaker system is an essential part of this capability. The system is used to simulate mechanical environmental conditions within a laboratory setting. A new slip table system with an increased stroke length is required, but must be fully compatible with the existing electro-dynamic shaker system and hydraulic coupling device, as well as meet the physical constraints of the current electro-dynamic shaker installation.

Vendors must cross reference the mandatory technical criteria in a concise format by using page, paragraph(s) & sub-paragraphs as applicable to their supporting technical documentation.

1.0 VIBRATION MACHINE SLIP TABLE

1.1 SLIP TABLE PHYSICAL CHARACTERISTICS

1.1.1 The slip table must have a nominal working area of at least 36 inches x 36 inches;

Provide drawing, schematic or product brochure showing which model/system is being offered.

Reference in Contractors Proposal: _____

1.1.2 The minimum thickness of slip table must be 1.5 inches;

Compliant: Yes _____

1.1.3 The slip table must be fabricated out of a single solid stock of magnesium plate;

Compliant: Yes _____

1.1.4 The slip table must be machined flat to ensure the ability to affix vibration fixtures without point loading anywhere on the working area of the slip table;

Compliant: Yes _____

1.1.5 The slip table must have the following circular bolt patterns, centered in the working area of the slip table for mounting of test items and vibration fixturing, bolt hole threads must be 3/8"-16 UNC-2B using threaded stainless steel inserts of minimum 1/2 inch thread depth with a hole depth of at least 1 inch.

1.1.5.1 Hole pattern A: 8 inch BCD x 8;

1.1.5.2 Hole pattern B: 16 inch BCD x 8;

1.1.5.3 Hole pattern C: 24 inch BCD x 8; and

1.1.5.4 Hole pattern D: 32 inch BCD x 8

Compliant: Yes _____

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1.1.6 The moving weight of the slip table must not exceed 350 pounds;

Provide drawing, schematic or product brochure showing which model/system is being offered.

Reference in Contractors Proposal: _____

1.1.7 The slip table must have a nominal stroke of ± 1.25 inch (total stroke of 2.5 inches) with a maximum stroke of ± 1.5 inches (total stroke of 3 inches);

Provide drawing, schematic or product brochure showing which model/system is being offered.

Reference in Contractors Proposal: _____

1.1.8 The slip table moment capacities must be at least:

- 1.1.8.1** Pitch: 500,000 inch-pounds;
- 1.1.8.2** Roll: 500,000 inch-pounds;
- 1.1.8.3** Yaw: 54,000 inch-pounds

Compliant: Yes _____

1.2 SLIP TABLE COUPLING TO SHAKER

1.2.1 The slip table system must be compatible both dimensionally and functionally with the existing hydraulic coupling drive adapter. The proposed slip table must mate with the existing coupler;

Provide drawing, schematic or product brochure showing which model/system is being offered.

Reference in Contractors Proposal: _____

Compliance statement signed by company official.

Included: Yes _____

1.2.2 The slip table must have a bull nose adapter weldment compatible with the coupling drive adapter stated in 1.2.1. Diagrams provided in Annex B-1;

Compliant: Yes _____

1.3 HYDRAULIC SYSTEM

1.3.1 The slip table hydraulic system must provide hydraulic power to the proposed slip table system as well as to operate the existing hydraulic coupling drive adapter. The existing coupler is a TEAM Corporation part number JN: 2000. Diagrams provided in Annex B-1;

Compliant: Yes _____

1.3.2 The hydraulic coupling drive adaptor must have an operating pressure of 3000 pounds per square inch (psi) and 0.1 to 0.3 gallons per minute (gpm);

Compliant: Yes _____

1.3.3 The hydraulic coupling fittings must be: (Pressure side) J514, 37 deg flare, 04 male dash size, (Return side) J514, 37 deg flare, 06 male dash size;

Compliant: Yes _____

1.3.4 The slip table hydraulic pump must be wired for 220VAC, 3 phase, 20 amp, 60 hz electrical power to mate with a NEMA L15-20R or 120V, 15 amp standard receptacle (NEMA 5-15R);

Compliant: Yes _____

1.3.5 The slip table system must include at least 20 feet of hydraulic lines for both the high pressure and return hoses;

Compliant: Yes _____

1.3.6 The hydraulic pump must be sized (i.e. capacity, flow rate, pressure, cooling, etc.) such that proper functioning of the slip table and hydraulic coupler is ensured;

Compliant: Yes _____

1.3.7 The hydraulic accessories must have sufficient pressure relief valves and other safety provisions;

Compliant: Yes _____

1.3.8 The supplied hydraulic fluids must be commercially available off the shelf;

Compliant: Yes _____

1.3.9 The slip table system must be fitted with leak free quick disconnect type couplings between the hydraulic power pack and hydraulic coupling as well as between the hydraulic power pack and slip table;

Compliant: Yes _____

1.3.10 The hydraulic power pack must have emergency shut off capability.

Compliant: Yes _____

1.4 PERFORMANCE

1.4.1 The maximum velocity of the slip table must be at least 150 inch/second;

Compliant: Yes _____

1.4.2 The slip table system must be capable of operating up to 2000 Hz or higher;

Compliant: Yes _____

1.4.3 The shaker system is equipped with a portable thermal chamber that is super imposed above the shaker's slip table. The thermal chamber can be moved into position manually on a set of tracks such that the thermal chamber is setup over the current slip table to enable concurrent vibration testing and thermal conditioning. The 2.5 inch stroke slip table system must maintain this functionality;

Compliant: Yes _____

1.4.4 The slip table system must be capable of normal operation when the surface of the table is subjected to temperature extremes that range from -50°C to +70°C;

Provide drawing, schematic or product brochure showing which model/system is being offered.

Reference in Contractors Proposal: _____

Compliance statement signed by company officiel. Included: Yes _____

1.4.5 The slip table system must be fully functional (operational ready) within 10 minutes of following proper startup procedures of the hydraulic system;

Compliant: Yes _____

1.4.6 The surface of the slip table must be capable of being cleaned of any light surface contaminants by using commercially available cleaning solvents.

Compliant: Yes _____

2.0 ELECTRICAL

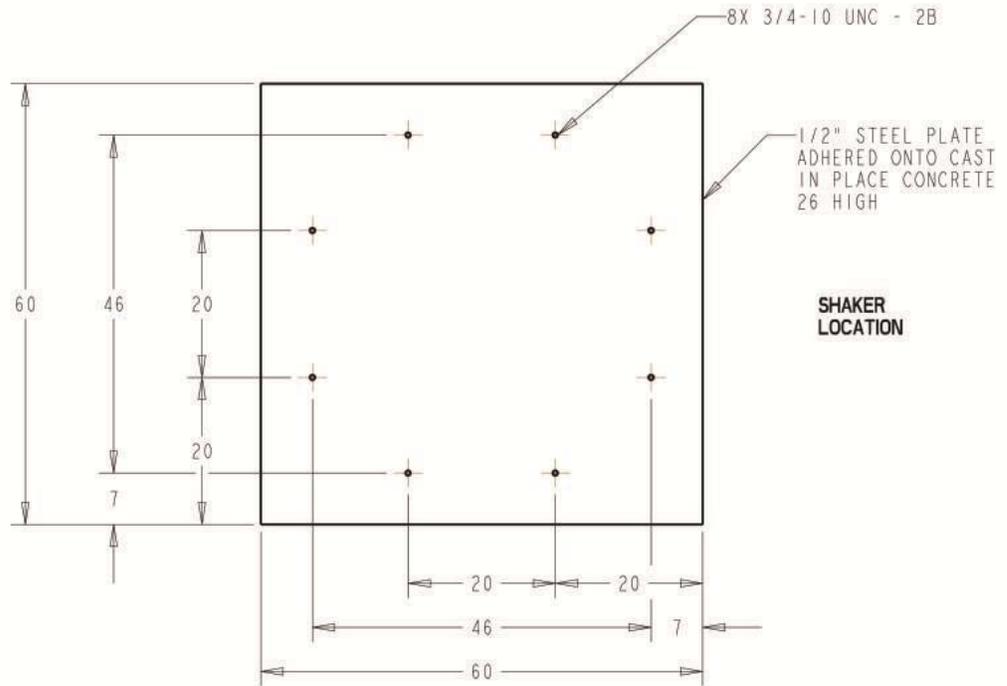
2.1 All electrical equipment must conform to the latest Canadian Standards Association (CSA) standards, the latest National Building Code of Canada (NBCC), local Municipal Codes and By-Laws and applicable electrical codes including grounding requirements or equivalent, where applicable.

Compliant: Yes _____

2.2 The power for all electrical equipment and accessories must be provided by plug connections utilizing the existing power on the pillars in the laboratory and will not require the services of an electrician to connect and disconnect.

Compliant: Yes _____

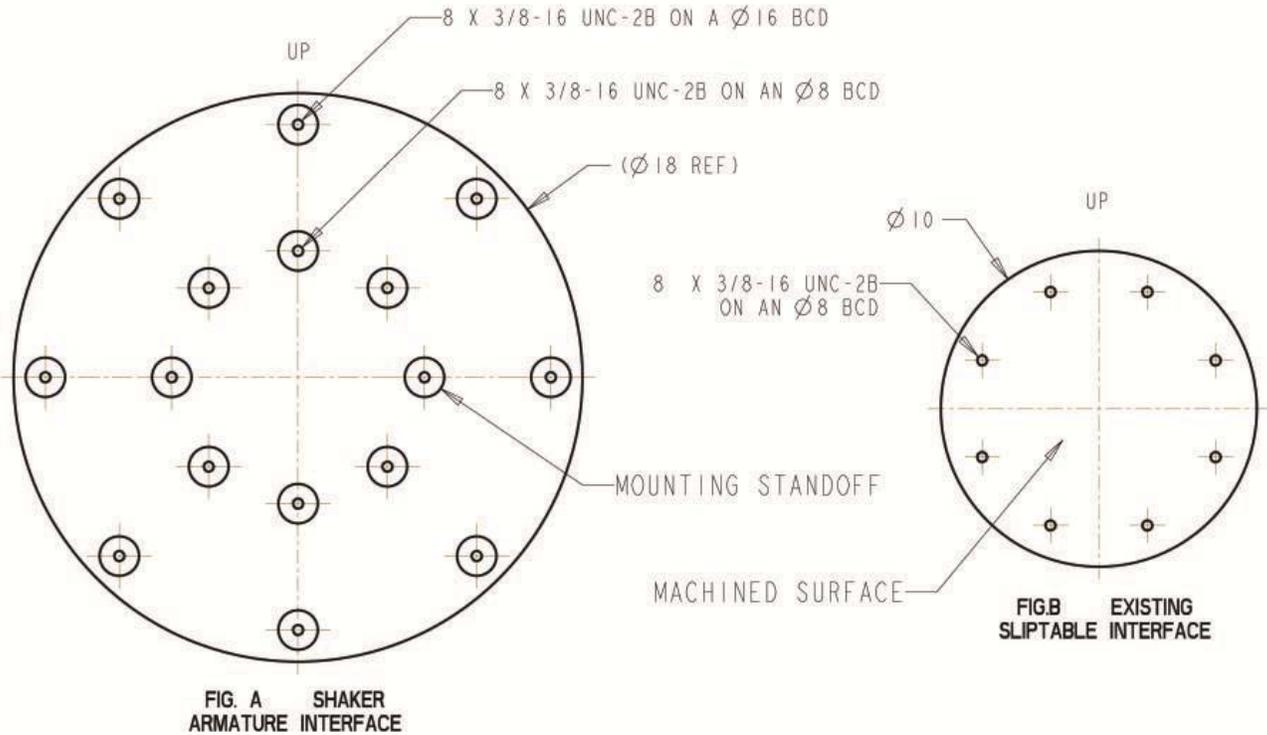
**ANNEX B-1
DRAWINGS**



QETE 2-4 DURABILITY LABORATORY
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NATIONAL PRINTING BUREAU BUILDING
ROOM G0601

DRAWING 1
SEISMIC MASS MOUNTING PLATFORM
EXISTING MOUNTING HOLE PATTERN
B335 ELECTRODYNAMIC SHAKER SYSTEM
SCALE 1/16
ALL MEASUREMENTS IN INCHES ±1/16

Figure 1: Top-down view of existing slip table mounting base

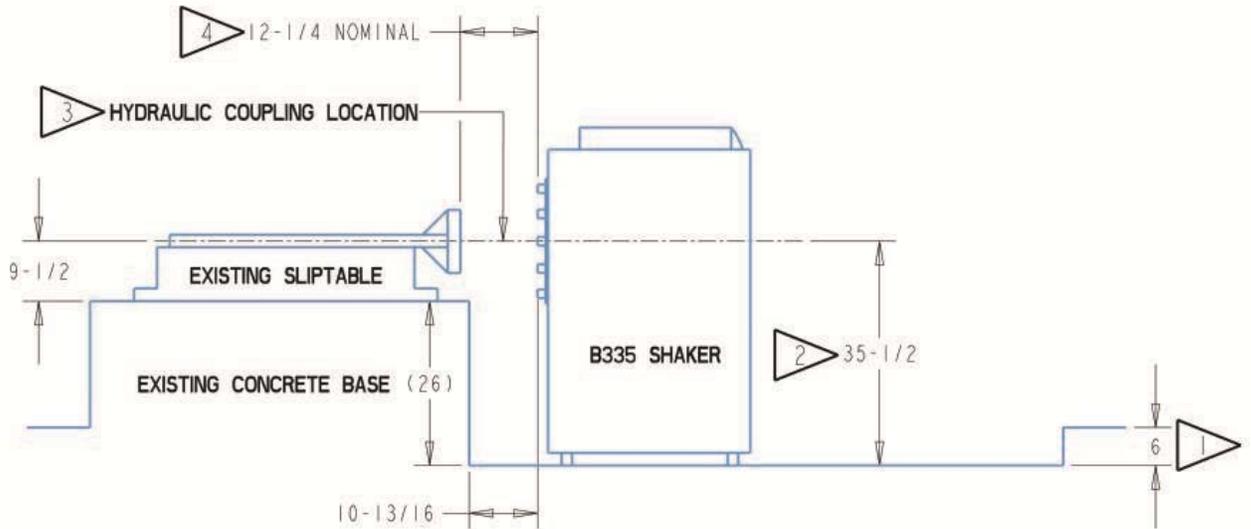


- NOTES:
1. THE EXISTING HYDRAULIC COUPLING ADAPTS TO FIT BETWEEN EACH OF THESE HOLE PATTERNS DEPICTED IN FIG.A AND FIG.B
 2. IF EXISTING HYDRAULIC COUPLING IS TO BE USED, THE PROPOSED SLIP TABLE MUST HAVE THE HOLE PATTERN DEPICTED IN FIG.B

QETE 2-4 DURABILITY LABORATORY
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NATIONAL PRINTING BUREAU BUILDING
ROOM G0601

DRAWING 2
SHAKER/EXISTING TABLE INTERFACE
EXISTING MOUNTING HOLE PATTERNS
B335 ELECTRODYNAMIC SHAKER SYSTEM
SCALE 1/16
ALL MEASUREMENTS IN INCHES

Figure 2: Interfaces for existing hydraulic coupler. Proposed slip table must match existing slip table interface design (right)



- NOTES:
1. THE B335 SHAKER IS MOUNTED IN A SHALLOW PIT INDENTATION ON THE FLOOR
 2. THE B335 SHAKER CAN BE ADJUSTED ± 1 VERTICALLY, AND ± 1 HORIZONTALLY
 3. THE EXISTING HYDRAULIC COUPLING IS 12-1/4 LONG
 4. THIS MEASUREMENT IS TAKEN WITH SLIPTABLE IN CENTER STROKE POSITION, AND THE SHAKER CENTERED ON LINEAR BEARINGS, AND ARMATURE IN CENTERED POSITION

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ROOM G0601

FIGURE 3
EXISTING SHAKER/TABLE ALIGNMENT
B335 ELECTRODYNAMIC SHAKER SYSTEM
SCALE 1/20
ALL MEASUREMENTS IN INCHES $\pm 1/16$

Figure 3: Side-view schematic of existing electro-dynamic shaker and slip table mounting base.

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ANNEX C

**COMPLETE LIST OF DIRECTORS
(As per Standard Instructions, Clauses and Conditions Part 2)**

Name	Position
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____