

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

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

**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**

<b>Title - Sujet</b> Dissectible Machines	
<b>Solicitation No. - N° de l'invitation</b> W2037-140053/A	<b>Date</b> 2013-12-05
<b>Client Reference No. - N° de référence du client</b> W2037-140053	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-212-6451	
<b>File No. - N° de dossier</b> TOR-3-36204 (212)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-01-15</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Shaw, Marian	<b>Buyer Id - Id de l'acheteur</b> tor212
<b>Telephone No. - N° de téléphone</b> (905) 615-2065 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE RSEME School Art Coy 221 Craftsman Rd, Bldg A-142 CFB Borden Borden Ontario L0M 1C0 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**

Public Works and Government Services Canada  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Delivery Required - Livraison exigée</b> See herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## PART 1 - GENERAL INFORMATION

### 1. Security Requirement

There is no security requirement associated with this bid solicitation.

### 2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses

### 3. 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

### 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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days  
Insert: ninety (90) days

#### 1.1 SACC Manual Clauses

B1000T (2007-11-30) Condition of Material

### 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.

**Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.**

### 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 is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

### 4. Applicable Laws

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

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

## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

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

Section I: Technical Bid (3 hard copies)

Section II: Financial Bid (2 hard copies)

Section III: Certifications (1 hard copies)

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. The total amount of Applicable Taxes must be shown separately.

**Section III: Certifications**

Bidders must submit the certifications required under Part 5.

**PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION****1. Evaluation Procedures**

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

**1.1 Technical Evaluation****1.1.1 Mandatory Technical Criteria**

See Annex C, Technical Evaluation Criteria.

**1.2 Financial Evaluation****1.2.1 Mandatory Financial Criteria**

Bidders must submit their financial bid in Canadian Funds in accordance with Annex B, Basis of Payment, with their bid at time of bid closing.

**1.2.2 Evaluation of Price**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

- 1.2.3 The evaluated price will be calculated using the Bidder's firm unit prices proposed at Annex B, Basis of Payment, multiplied by the total quantity, for the complete requirement.

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## 2. Basis of Selection

### 2.1 Basis of Selection - Mandatory Technical Criteria

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

## PART 5 - CERTIFICATIONS

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

#### 1.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of contract award.

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement applicable to this Contract.

### 2. Requirement

The Contractor must provide the Dissectible Machine Trainers in accordance with the Requirement at Annex A.

### **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.

#### **3.1 General Conditions**

2010A (2013-04-25) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **3.2 Supplemental General Conditions**

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received on or before 31 March 2014.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:  
Marian Shaw  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Ontario Region Directorate  
33 City Centre Drive, Suite 480  
Mississauga, Ontario L5B 2N5

Telephone: (905) 615-2065  
Facsimile: (905) 615-2060  
E-mail address: marian.shaw@pwgsc-tpsgc.gc.ca

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

#### **5.2 Project Authority**

The Project Authority for the Contract is:

*(To be provided at contract award).*

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.

### 5.3 Contractor's Representative

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 6. Payment

### 6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex B for a cost of \$ \_\_\_\_\_ (*amount to be inserted 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.

### 6.2 Limitation of Price

*SACC Manual* clause C6000C (2011-05-16) Limitation of Price

### 6.3 Single Payment

*SACC Manual* clause H1000C (2008-05-12) Single Payment

## 7. Invoicing Instructions

**7.1** 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.

**7.2** 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.

## 8. Certifications

### 8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2013-01-28) Hardware Purchase, Lease and Maintenance;
- (c) the general conditions 2010A (2013-04-25) - Goods (Medium Complexity);
- (d) Annex A Requirement;
- (e) Annex B, Basis of Payment
- (f) the Contractor's bid dated \_\_\_\_\_

## 11. SACC Manual Clauses

A9068C (2010-01-11) Government Site Regulations

B1501C (2006-06-16) Electrical Equipment

A9006C (2012-07-16) Defence Contract

## 12. Insurance

SACC Manual Clause G1005C (2008-05-12) Insurance

Solicitation No. - N° de l'invitation

W2037-140053/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-3-36204

Buyer ID - Id de l'acheteur

tor212

CCC No./N° CCC - FMS No/ N° VME

W2037-140053

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## **ANNEX A**

### **REQUIREMENT**

#### **Dissectible Machine Trainers**

The document is attached separately.

**ANNEX B****BASIS OF PAYMENT**

Prices are firm, all inclusive in Canadian funds, FOB destination, delivery charges included. Customs duties are included and Applicable Taxes are extra.

Item No.	Description	Qty	U of I	Firm Unit Price	Extended Price
01	For the supply, delivery and installation of  Dissectible Machine Trainers, associated courseware and technical support in accordance with the specifications detailed in Annex A, <b><u>and any other item or service required to complete the system as specified in Annex A.</u></b>  Manufacturer: _____  Make and Model: _____	5	EA	\$	\$
	Sub-Total				\$
	GST / HST Extra (as applicable)				\$
	Total				\$

**Delivery Date**

All the deliverables must be received on or before 31 March 2014.

The delivery date offered is \_\_\_\_\_ (as specified by the Bidder) taking into account the above mandatory delivery date.

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TOR-3-36204

Buyer ID - Id de l'acheteur

tor212

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## **ANNEX C**

### **TECHNICAL EVALUATION CRITERIA**

The document is attached separately.

**Annex A**  
**Requirement**  
**Dissectible Machine Trainers**

**1. Objective**

To procure five (5) AC/DC motor and Generator Theory Trainer systems (Dissectible Machine Trainers) and associated courseware and technical support that will sustain the Royal Canadian Electrical and Mechanical Engineers (RCEME) School Electronic/Optronics (EO) Technician Development Period (DP) 1 training.

**2. Background**

Through evaluation of the EO Platoon DP1 training initiatives and the future objectives that are forecasted, the RCEME School is continuing to transform the methods it trains EO Technicians.

The RCEME School, EO Platoon does not have an effective training aid to support AC/DC Motor and Generator that is compatible with training aids used to instruct basic AC/DC electronic and electrical theories. Currently, the Training Plan (TP) for AC/DC Motor and Generator is theory based, however it has been identified that to build a strong skill set in the fundamentals of motor and generator, practical exercises are necessary to reinforce these theories.

**3. Deliverables**

The contractor must provide five (5) Dissectible Machine Trainer systems, courseware and technical support that must meet the following specifications at time of delivery:

**3.1 Technical Specifications**

3.1.1 Dissectible Machine Training System

- Must be machined construction from component parts
- Must have protected supplies, meters and connecting leads
- Must have safety cover for Dissectible machine and couplings
- Must have safety Earthing System
- Each system must have 120/208V operation
- Each complete system must include the following components:
  - Universal Power Supply
  - Variable AC/DC Power 5A
  - Dissectible Machines Tutor- Basic Components
  - Control Switches
  - Resistor Capacitor Load Unit
  - Variable Speed Drive
  - Variable Resistance 200R 3A
  - Friction (Prony) Brake
  - Electronics Single and Three Phase Measurement
  - DC Voltmeter and Ammeter x 2
  - DC Milliammeter Centre Zero
  - Rectifier Voltmeter and Frequency Meter

- Synchronizing Lamps
- AC Voltmeter and Frequency Meter
- Digital Optical/ Contact Tachometer
- 4mm Patch Leads
- Dissectible Machines Storage panel
- Rotatable Brush Gear
- Two (2) x System Frames
- Four (4) x Universal Bin
- Lead Storage
- Must come with associated Courseware in electronic and paper format:
  - Must come with a comprehensive student manual in English and French that covers:
    - Magnetic principles to Three Phase machines
    - Conventional instrumentation pointer type and digital meters
    - DC, Single phase and Three phase motors and generators

### 3.2 Performance Tasks:

#### 3.2.1 Instructor

Instructors must have the ability to demonstrate the operation of the Dissectible Machine Trainers so trainees can complete assigned exercises. Specifically, instructors must be able to:

- Operate and demonstrate the trainer system to simulate the operation of AC and DC Motors/ generators

#### 3.2.2 Student

Dissectible machine trainers must be designed to allow the users to:

- Perform enhanced manipulation of the trainer components
- Assemble and disassemble AC and DC motors/ generators
- Diagnose and troubleshoot the electrical/electronic system
- Obtain electronic parameters using diagnostic equipment
- Obtain technical data and information from the trainers
- Perform testing procedures of all systems on the trainers
- Inspect and maintain components on the trainers

### 3.3 Performance Requirements

The training systems must uniformly provide all users with the ability to:

- Test components. The staff and students must have the ability to exercise test procedures as outlined in Dissectible Machine Trainer reference manuals.
- Name components in both official languages. The RCME School must have the authorization to change the name plates or decals in either official language as may be required in future use.

- Maintenance. Staff and students must be able to manipulate and maintain components when required, within the confines of warranty agreements and provided maintenance manuals post warranty.

### 3.4 Technical Support

The Dissectible Machine System must have the readily available direct technical support from the contractor for 2 years to include:

- Repairs: Parts and labour for repairs to be free during the warranty period. Warranty work process initiated by submission of client's work request. Turn over time for repairs must be within 3-4 weeks.
- Online/phone support: The contractor will provide an online and phone support system to allow client to submit work requests and/or communicate with a contractor representative in reference to technical information or problem solving. This support system must be active on normal work days 0830 – 1700 hours
- Inspections: Full inspection to be completed by the contractor 18 months after delivery and submit a full report of maintenance necessary to be provided. Any repairs and/or upgrades that are under warranty obligation will be carried out.

### 3.5 Additional Requirements

- Operation and maintenance manuals must be supplied in both official languages or the contractor must provide the rights for to DND to translate locally.
- Dissectible machine trainers must be fully operable without relying on changes to infrastructure power resources.
- Must provide the user with active and stored diagnostic information.
- Must include protective covers for all moving parts to prevent personal injury
- Must include master switch to disengage main power in the event of emergency
- Interoperability with ELVIS II / Multisim / Feedback system to ensure:
  - Reduction in staff training requirements;
  - Provide multisystem efficiencies within EO PI; and
  - Common training aids for the students.

### 3.6 Warranty

A minimum two (2) year warranty on parts, labour and manufacturer defects is required.

### 3.7 Installation

It will be the responsibility of the contractor to install all the Dissectible Machine Trainers delivered to Client under this solicitation. Client will be responsible for the preparation of and access to the installation sites.

## 4. Constraints

- 4.1. Delivery of the complete Training Systems can be phased, in order to meet delivery and installation schedules. Deadline for completion of phase 1 and 2 is 31 March 2014. Phases as follows:
  - 4.1.1. Phase 1: Training System Hardware; and
  - 4.1.2. Phase 2: Training System Courseware.

**Technical Evaluation Criteria**

Supplier:

**MANDATORY REQUIREMENTS**

The Bidder's proposed equipment must meet the technical specifications detailed at Annex A. Proposals must be supported by proper documentation to support each mandatory requirement. Any proposals not meeting all of the mandatory requirements will be given no further consideration.

The Bidder must submit with their proposal at time of bid closing supporting technical documents such as: technical specifications, literature, brochures or other similar supporting documentation, which clearly demonstrates that the Bidder's proposed equipment meets each of the specifications at Annex A. This information will be used to verify compliance with Annex A. If any of the equipment specification is not identified in the Bidder's existing technical documents, the Bidder must address separately, in their proposal, how it meets that particular equipment specification.

		Identify where the supporting documentation is located in the bid package (page number(s))
<b>M1</b>	<b>Technical Specifications</b>	
M1.1	Must be machined construction from component parts	
M1.2	Must have protected supplies, meters and connecting leads	
M1.3	Must have safety cover for Dissectible machine and couplings	
M1.4	Must have safety Earthing System	
M1.5	Must have 120/208V operation	
M1.6	Each complete system must include the following components: <ul style="list-style-type: none"> <li>○ Universal Power Supply</li> <li>○ Variable AC/DC Power 5A</li> <li>○ Dissectible Machines Tutor- Basic Components</li> <li>○ Control Switches</li> <li>○ Resistor Capacitor Load Unit</li> <li>○ Variable Speed Drive</li> <li>○ Variable Resistance 200R 3A</li> <li>○ Friction (Prony) Brake</li> <li>○ Electronics Single and Three Phase Measurement</li> <li>○ Two (2) x DC Voltmeter and Ammeter</li> <li>○ DC Milliammeter Centre Zero</li> <li>○ Rectifier Voltmeter and Frequency Meter</li> <li>○ Synchronizing Lamps</li> <li>○ AC Voltmeter and Frequency Meter</li> <li>○ Digital Optical/ Contact Tachometer</li> </ul>	

		Identify where the supporting documentation is located in the bid package (page number(s))
	<ul style="list-style-type: none"> <li>○ 4mm Patch Leads</li> <li>○ Dissectible Machines Storage panel</li> <li>○ Rotatable Brush Gear</li> <li>○ Two (2) x System Frames</li> <li>○ Four (4) Universal Bins</li> <li>○ Lead Storage</li> </ul>	
M1.7	<p>Must come with a comprehensive student manual in English and French that covers:</p> <ul style="list-style-type: none"> <li>○ Magnetic principles to Three Phase machines</li> <li>○ Conventional instrumentation pointer type and digital meters</li> <li>○ DC, Single phase and Three phase motors and generators</li> </ul>	
<b>M2</b>	<b>Performance Tasks</b>	
M2.1	<p>Training Simulators must allow Instructors to perform the following task:</p> <ul style="list-style-type: none"> <li>○ Operate and demonstrate the trainer system to simulate the operation of AC and DC Motors/ generators</li> </ul>	
M2.2	<p>Training Simulators must allow Basic Users to perform the following tasks:</p> <ul style="list-style-type: none"> <li>○ Perform enhanced manipulation of the trainer components</li> <li>○ Assemble and disassemble AC and DC motors/ generators</li> <li>○ Diagnose and troubleshoot the electrical/electronic system</li> <li>○ Obtain electronic parameters using diagnostic equipment</li> <li>○ Obtain technical data and information from the trainers</li> <li>○ Perform testing procedures of all systems on the trainers</li> <li>○ Inspect and maintain components on the trainers</li> </ul>	
<b>M3</b>	<b>Performance Requirements</b>	
M3.1	<p>Users must have the ability to exercise test procedures as outlined in Dissectible Machine Trainer reference manuals.</p>	
M3.2	<p>RCEME School must have the authorization to change the name plates or decals in either official language as may be required in future use</p>	
M3.3	<p>Staff and students must be able to manipulate and maintain components when required, within the confines of warranty agreements</p>	
<b>M4</b>	<b>Technical Support</b>	
M4.1	<p>The Dissectible Machine System must have the readily available direct technical support for 2 years to include:</p> <ul style="list-style-type: none"> <li>○ <u>Repairs</u>: Free parts and labour for warranty repairs. Parts and labour for repairs to be free during the warranty period.</li> </ul>	

		Identify where the supporting documentation is located in the bid package (page number(s))
	<p>Warranty work process initiated by submission of client's work request. Turn over time for repairs must be within 3-4 weeks.</p> <ul style="list-style-type: none"> <li>○ <u>Online/phone support</u>: Provision of an online and phone support system to allow client to submit work requests and/or communicate with a company representative in reference to technical information or problem solving. This support system must be active on normal work days 0830 – 1700 hours</li> <li>○ <u>Inspections</u>: A full inspection 18 months after delivery with the submission of a full report of necessary maintenance identified from inspection</li> </ul>	
<b>M5</b>	<b>Additional Requirements</b>	
M5.1	Operation and maintenance manuals must be supplied in both official languages or the supplier must provide the rights to DND to translate locally	
M5.2	Must be fully operable without relying on changes to infrastructure power resources	
M5.3	Must provide the user with active and stored diagnostic information	
M5.4	Must include protective covers for all moving parts to prevent personal injury	
M5.5	Must include master switch to disengage main power in the event of emergency	
M5.6	<p>Must be interoperable with ELVIS II / Multisim / Feedback system to ensure:</p> <ul style="list-style-type: none"> <li>○ Reduction in staff training requirements</li> <li>○ Provide multisystem efficiencies within EO PI</li> <li>○ Common training aids for the students</li> </ul>	
<b>M6</b>	<b>Warranty</b>	
M6.1	Must have a written guarantee stating the equipment is guaranteed against any defects of material and workmanship for a period of minimum two (2) year from the date of delivery, or manufacturer's standard warranty period, whichever is longer.	
<b>M7</b>	<b>Delivery Date</b>	
M7.1	All product and materials with this contract must be delivered to RCEME School no later than 31 March 2014.	