

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 1T3  
Bid Fax: (902) 496-5016

**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> Motor Analyzer/Tester	
<b>Solicitation No. - N° de l'invitation</b> W355B-151486/A	<b>Date</b> 2014-12-18
<b>Client Reference No. - N° de référence du client</b> W355B-15-1486	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-321-9416	
<b>File No. - N° de dossier</b> HAL-4-73170 (321)	<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 2015-01-28</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Standard Time AST	
<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> Gillis, Floyd	<b>Buyer Id - Id de l'acheteur</b> hal321
<b>Telephone No. - N° de téléphone</b> (902) 496-5566 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE FMF CAPE SCOTT, HMC DOCKYARD DOOR 13 BLDG D-200 HALIFAX NOVA SCOTIA B3K5X5 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**

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9  
Nova Scot

<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 in **Annex "A" - Requirement**.

**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.

**4. Trade Agreements**

This requirement is subject to the North American Free Trade Agreement (**NAFTA**) and the Agreement on Internal Trade (**AIT**).

**PART 2 - BIDDER INSTRUCTIONS****1. Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions 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.

Bidders who are incorporated or who are a sole proprietorship, including those bidding as a joint venture, have already provided a list of names of all individuals who are directors of the Bidder, or the name of the owner, at the time of submitting an arrangement under the Request for Supply Arrangement (RFSA).

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These bidders must diligently maintain this list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid as well as during the period of any contract arising from this bid solicitation.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

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

Bids will remain open for acceptance for a period of **not less than 90 days from the closing date** of the bid solicitation, unless specified otherwise in the bid solicitation. Canada reserves the right to seek an extension of the bid validity period from all responsive bidders in writing, within a minimum of 3 days before the end of the bid validity period. If the extension is accepted by all responsive bidders, Canada will continue with the evaluation of the bids. If the extension is not accepted by all responsive bidders, Canada will, at its sole discretion, either continue with the evaluation of the bids of those who have accepted the extension or cancel the solicitation.

## **1.1 SACC Manual Clauses**

B3000T (2006-06-16) Equivalent Products

## **2. Submission of Bids**

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

## **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than **five (5) 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 **Nova Scotia**.

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 ( 2 hard copies)**

**Section II: Financial Bid ( 1 hard copy)**

**Section III: Certifications (1 hard copy)**

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

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

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

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

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Bid**

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

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

##### **1.1 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

### **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**

##### **1.1.2 General Specifications:**

- a) Fully automatic testing for AC motors
- b) Upgradable output voltage through software (with appropriate add ons)
- c) Ability to create default test sets and store them
- d) 7 output leads to allow connection for different tests at the same time
- e) User defined voltage and time ramping for tests
- f) Pass/fail tolerances can be set by operator
- g) Auto shut down during test sequence failure
- h) Kelvin clamps for low resistance ( $\mu$  ohm) measurement
- i) Bar to bar resistance measurement on DC armatures
- j) IR trend table capability (Insulation Resistance)
- k) PI and Step Voltage graphs (Polarization Index)
- l) Multi coil mode
- m) Temperature corrected low resistance and megohm measurements
- n) Test report info to include operator specified data on each motor or coil such as motor ID#, project #, or other description
- o) Unlimited internal storage capabilities (minimum 30Gb)
- p) Motor data can be added to reports
- q) Ethernet output (optional)
- r) USB port for external memory card/stick
- s) Print reports right from motor analyzer with proper printer driver
- t) Editable motor/coil info before or after tests
- u) Data transfers between motor analyzer and PC via USB memory stick
- v) Free lifetime technical support by phone or email

- w) Free software upgrades
- x) Large colour touch screen
- y) USB keyboard capabilities

### **1.1.3. Minimum Specifications:**

- a) Portable design with rugged, hard plastic carrying case
- b) Optional available power pack for higher voltage output
- c) 30Gb internal storage

See **Annex "A" Requirement** for full requirement details.

## **1.2 Financial Evaluation**

A0220T (2013-04-25), Evaluation of Price

## **2. Basis of Selection**

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.

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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 Integrity Provisions - Associated Information**

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

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

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

### **1. Security Requirement**

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There is no security requirement applicable to this Contract.

## 2. Requirement

The Contractor must provide the items detailed under 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 ( 2014-11-27 )**, General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

## 4. Term of Contract

### 4.1 Delivery Date

Delivery is required on or before **31 March/2015**

## 5. Authorities

### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

**Name:** Floyd Gillis  
**Title:** Supply Officer  
**Public Works and Government Services Canada**  
**Address:** 1713 Bedford Row  
Halifax, NS B3J 3M9  
**Telephone:** (902) 496-5566  
**Facsimile:** (902) 496-5016  
**E-mail address:** [floyd.gillis@pwgsc-tpsgc.gc.ca](mailto:floyd.gillis@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 (will be advised upon 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 (<----- to be completed by bidder)**

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

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

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

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

**6. Payment**

**6.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex B for a cost of \$ \_\_\_\_\_ **To be announced 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**

C6000C (2011-05-16) Limitation of Price

**6.3 Single Payment**

H1000C (2008-05-12) Single Payment

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## 7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

The original and two (2) copies must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## 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 **Nova Scotia**.

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions **2010A ( 2014-11-27 )** General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*)

## 11. Defence Contract

**A9006C (2012-07-16)** Defence Contract

Solicitation No. - N° de l'invitation

W355B-151486/A

Amd. No. - N° de la modif.

File No. - N° du dossier

HAL-4-73170

Buyer ID - Id de l'acheteur

hal321

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W355B-15-1486

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## 12. **SACC Manual Clauses**

**A9062C 2011-05-16** Canadian Forces Site Regulations

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File No. - N° du dossier

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Buyer ID - Id de l'acheteur

hal321

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## **ANNEX A**

### **Statement of Requirement**

As per attached

Solicitation No. - N° de l'invitation

W355B-151486/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hal321

Client Ref. No. - N° de réf. du client

W355B-15-1486

File No. - N° du dossier

HAL-4-73170

CCC No./N° CCC - FMS No/ N° VME

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

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price. **FOB Destination.** 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.

**Note:** In order to be considered compliant with this solicitation document, bidders are required to complete the pricing table below.

\* Pricing shall **exclude HST.**

Description	Quantity A	Unit Cost per Item B	Extended Price C (A X B)
<b>Furnish all labor, material to supply two (2) Motor Analyzer/testers as detailed in Annex A</b>	Two Each (2)	\$ _____	\$ _____
<b>Mandatory Delivery Date: 31 March/2015</b>	<b>YES    NO    (Circle One)</b>		

## **Annex A**

### **Statement of Requirement**

#### **W355B-151486**

Request the purchase of the following as per spec:

Purchase Description: Motor Analyzer/Tester, Quantity Two (2) and Accessories

General Description: Motor Analyzer/Tester system that is portable, reliable, and capable of measuring motors, generators and windings in many different situations in a non-destructive manner. Delivery is MANDATORY on or before March 31, 2015. If delivery cannot be met, the contract will be terminated.

\*\* Please ensure that you read the entire document before submitting a bid. \*\*

Provide and deliver the following:

1. Two (2) 4Kv motor analyzer/tester
2. One (1) Bar to bar surge tester
3. Two (2) CLZ measuring options (Capacitance, Reactance, Impedance)
4. One (1) Armature Tester (Span Tester) 10
5. One (1) Foot switch (for use with the armature tester)
6. One (1) Armature resistance probe (2 probe system)
7. One (1) Output Device (such as HP® LaserJet Pro (P1102W))
8. Three (3) days of training on motor analyzer and accessories

#### **1. General Specifications:**

- a) Fully automatic testing for AC motors
- b) Upgradable output voltage through software (with appropriate add ons)
- c) Ability to create default test sets and store them
- d) 7 output leads to allow connection for different tests at the same time
- e) User defined voltage and time ramping for tests
- f) Pass/fail tolerances can be set by operator
- g) Auto shut down during test sequence failure
- h) Kelvin clamps for low resistance ( $\mu$  ohm) measurement
- i) Bar to bar resistance measurement on DC armatures
- j) IR trend table capability (Insulation Resistance)

- k) PI and Step Voltage graphs (Polarization Index)
- l) Multi coil mode
- m) Temperature corrected low resistance and megohm measurements
- n) Test report info to include operator specified data on each motor or coil such as motor ID#, project #, or other description
- o) Unlimited internal storage capabilities (minimum 30Gb)
- p) Motor data can be added to reports
- q) Ethernet output (optional)
- r) USB port for external memory card/stick
- s) Print reports right from motor analyzer with proper printer driver
- t) Editable motor/coil info before or after tests
- u) Data transfers between motor analyzer and PC via USB memory stick
- v) Free lifetime technical support by phone or email
- w) Free software upgrades
- x) Large colour touch screen
- y) USB keyboard capabilities

## **2. Minimum Specifications:**

- a) Portable design with rugged, hard plastic carrying case
- b) Optional available power pack for higher voltage output
- c) 30Gb internal storage

## **3. Test Requirement Capabilities:**

### 3.1 Surge Test

- a) Surge Voltage Accuracy 10%
- b) Repetition Rate 50/60Hz
- c) Capacitance 40nF
- d) Max. Surge Energy 2.9J
- e) Max. Current 800A
- f) High frequency surge pulses
- g) Automatic surge ramp and shut off control
- h) Able to test assembled motors
- i) % wave difference calculation and display

### 3.2 DC IR and HIPOT Test

- a) Voltage Accuracy 2%
- b) Current Resolution 0.01 $\mu$ A
- c) Current Accuracy 2%

- d) Max. Resistance 500G ohms
- e) Min. Resistance 0.5M ohms
- f) Resistance Accuracy 4%
- g) Current Trip Out 0-2000 $\mu$ A
- h) User adjustable leakage current trip
- i) Hipot discharge monitor and indication

3.3 Insulation Resistance (Meg Test)

3.4 Step Voltage Test

3.5 Dielectric Absorption Test (DAR)

3.6 Polarization Index Test (PI)

3.7 Rotor Influence Check (RIC)

3.8 Low Resistance ( $\mu$  ohms)

3.9 Rotor Bar Tests (Open or cracked AC rotors)

3.10 Form Coil Tests

3.11 Transformer Tests

#### **4. Measurement requirement Capabilities**

1. Winding Resistance

a) Resolution 1  $\mu$  ohm

b) Accuracy 100  $\mu$  ohms to 2k ohms @ 0.5% to 0.1%

2. Winding Impedance

a) Accuracy from 0.001 ohms @ <1%

3. Winding Inductance

a) Accuracy from 0.01mH to 20H @ <1%

4. Winding Capacitance

a) Accuracy from 0.1nF to 10mF @ <1%

#### **5. Operation specification:**

a) High frequency surge pulses (50/60Hz)

b) Two independent surge generators

c) Fully automatic testing

- d) Ability to compare tested coils
- e) Manual or automatic testing
- f) Multi-point test graphs
- g) Trend analysis and reports
- h) Problem diagnosis
- i) Low discharge capacitance (0.02  $\mu$ F (20nF)) per channel

## **6. Results from Testing**

- a) Weak Insulation
- b) Shorts
- c) Weak ground wall
- d) Dielectric ground wall strength
- e) Dirty or moist windings
- f) Phase unbalance
- g) Open coils
- h) Reversed coils
- i) Motor lead connections
- j) Power cable faults

## **7.0 Maximum Specifications**

- 1. 40lbs

## **8.0 Additional Accessories Included:**

- 1. RIC (Rotor Influence Check) for squirrel cage testing

## 9.0 Training

A three (3) day training session (21 hours on site at FMFCS) will be provided with the purchase of this equipment by a qualified FSR. This training session will cover the full use and maintenance of the Motor Analyzer and accessories. The lesson should include practical and interactive examples. All necessary materials required to deliver the training (ie. Laptops, documents, training aids) must be supplied by the Facilitator. Training for 20 participants should be planned for. Training attendance sheet will be maintained at FMFCS by FMFCS personnel. Training schedule shall be agreed upon between supplier and buyer within 30 days of receipt of the testers and prior to 31 March 2015.

## 10.0 Electrical Certification

The equipment shall be certified by an acceptable Certification Organization. The following Certification Organizations are acceptable. The electrical control must bear a label from one of these organizations in order to be recognized as approved.

**NOTE:** Labels from all Organizations above (with the exception of CSA and ULC), must be accompanied by a small "c" at the eight o'clock position or Canadian Standard number to indicate the product has been certified to the Canadian Standard.

- A. Canadian Standards Association (CSA)
- B. Entela
- C. Intertek Testing Services
- D. ETL Testing Laboratories
- E. Warnock Hersey (WH)
- F. Underwriters Laboratories of Canada (ULC)
- G. Underwriters Laboratories Inc. (UL)
- H. MET Laboratories Inc. (MET)
- I. TUV Rheinland of North America
- J. Quality Auditing Institute (QAI)

K. TUV America Inc.

L. Factory Mutual (FM) Approvals

M. Omni-Test Laboratories Inc.

N. Curtis-Straus LLC

O. Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is "field" inspected and labelled (complete with verification documentation) by the Canadian Standards Association (CSA), Cantest Ltd, Entela, Intertek Testing Services, MET Laboratories, TUV SUD America Inc, Underwriters Laboratories of Canada, Electrical Safety Authority (ESA), or QPS Evaluation Services Inc. under the Special Inspection Program. This inspection must take place before equipment delivery.

**11.0 Special / Additional Instructions:**

1. Must have a minimum one (1) year warranty.

2. Delivery cost to buyer's location must be included on quote.

3. Standard shipping methods may apply.

4. Supply owner with three (3) copies of material and operational manuals. Material shall contain warranties, guarantees, calibration and commissioning documentation.