

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions/Travaux publics et Services
gouvernementaux Canada
Building S-111
CFB Petawawa
Petawawa
Ontario
K8H 2X3
Bid Fax: (613) 687-6656

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 1000 KW Load Bank	
Solicitation No. - N° de l'invitation W0107-12C422/A	Date 2012-12-20
Client Reference No. - N° de référence du client W0107-12C422	
GETS Reference No. - N° de référence de SEAG PW-\$PET-903-1216	
File No. - N° de dossier PET-2-37116 (903)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-01-10	Time Zone Fuseau horaire Eastern Standard Time EST
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: Harrington, Mary-Lou	Buyer Id - Id de l'acheteur pet903
Telephone No. - N° de téléphone (613) 687-0789 ()	FAX No. - N° de FAX (613) 687-6656
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

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 Supply and
Services Operation
Petawawa Procurement
Building S-111
CFB Petawawa
Petawawa
Ontario
K8H 2X3

Delivery Required - Livraison exigée See Herein	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. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

To provide all supervision, labour, materials, tools, transportation and equipment required to supply and deliver one complete Portable 25 kw loading to 1000 kw loading Load bank to CFB Petawawa, Ontario as detailed in the attached Annex A.

3. Debriefings

After contract award, 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 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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 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 (one hard copies)
Section II: Financial Bid (one hard copies)
Section III: Certifications (one 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>). 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 Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

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.

- (c) The evaluation team will determine first if there are three (3) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than three responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

(a) Bidders must submit with their Full Technical Specifications literature which provides details demonstrating that the Load Bank meets or exceeds all of the requirements stated in Annex "A" Statement of Requirement.

(b) In order for Canada to verify compliance, Bidders must cross reference their technical specification literature information or each Mandatory Technical Specification listed in Annex "A" - Statement of Requirement. The items not cross referenced in the literature MUST be supported by written narrative.

1.2 Financial Evaluation

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

2. Basis of Selection

A bid must comply with all requirements of the bid solicitation 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 related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

- 1.1.1 By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that

Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

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) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) 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.

2. Additional Certifications Precedent to Contract Award and Certifications Required with the Bid

Bidders must submit the certifications as provided below:

2.1 Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1.1 Federal Contractors Program - over \$25,000.00 and under \$200,000.00 or more

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the *Government Contracts Regulations*. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than a reduction of their workforce to less

than 100 employees. Any offers from ineligible contractors, including an offer from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Offeror, or, if the Offeror is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Offeror or the member of the joint venture

- () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- () is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C.. 1995, c. 44;
- () is subject to the requirements of FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- () has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: _____ .

Further information on the FCP is available on the HRSDC Web site.

2.1.2 Documents Required:

2.1.2.1 As per Annex "A", the Statement of Requirement, Part 1 1.2 Shopdrawings.

2.2 Certifications Required with the Offer

Offerors must submit the following duly completed certifications with their offer.

2.2.1 Canadian Content Certification

SACC Manual clause A3050T (2010-01-11) Canadian Content Definition

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the good(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

() the good(s) offered are Canadian goods as defined in paragraph 1 of clause A3050T.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work 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 (2012-11-19), General Conditions - Goods (Medium Complexity) 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 March 28, 2013.

Please state your best delivery date _____.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Mary Lou Harrington
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Bldg S-111, CFB Petawawa, Ontario K8H 2X3

Telephone: 613-687-0789
Facsimile: 613-687-6656
E-mail address: marylou.harrington@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.

5.2 Technical Authority

(to be provided by the Contracting Authority before Contract award)

The Technical Authority for the Contract is:

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

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

The Technical 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 Technical Authority, however the Technical 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 (Bdder fill in)

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 \$ _____ (insert the amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

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. The format of the invoice must match the format of the basis of 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.

8.2 SACC Manual Clauses

SACC Manual Clause A3060C (2008-05-12) Canadian Content Certification

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 2010 (2012-11-19) General Conditions - Goods (Medium Complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” **or** “, as amended on _____” and insert date(s) of clarification(s) or amendment(s))

ANNEX "A"**STATEMENT OF REQUIREMENT**

National Defence
PF# 9760-89171
CFB/ASU Petawawa, ON

GENERAL REQUIREMENTS

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1.1 GENERAL SCOPE

- .1 The work under this Requirement comprises the furnishing of all labour, materials, tools and equipment required at CFB Petawawa, Ontario.

1.2 DESCRIPTION OF WORK

- .1 Provide a Portable 25KWloading to 1000KWloading Load bank.
- .2 Load bank must be installed in a totally weatherproof self contained enclosure.
- .3 Must be trailer mounted and towable behind a ½ Ton truck
- .4 Must be able to operate on 600V 3phase, 120/208 3phase, 120/240v single phase.
- .5 Must be adjustable for various KW loading: 25KW, 50KW, 100KW, 150KW, 200KW, 300KW, 500KW, 750KW, 1000KW.

1.3 DOCUMENTS REQUIRED

- .1 Load bank drawings & specifications.
- .2 Maintenance manuals
- .3 Schematic diagram of electrical controls.
- .3 Repair manual
- .4 Manufacturer's installation manuals.
- .5 Certified copy of factory test results

1.4 SITE ACCESS

- .1 Access to the site is subject to the following restrictions:
 - .1 Troop movements.
 - .2 Other regulations as laid down by the Base Commander and/or the Technical Authority.
 - .3 All possible steps will be taken to provide the Supplier with access to the area at all times. However, DND activity may require some closure of the area. At least one (1) week's notice will be supplied to the Supplier if access to S-111 is to be closed due to DND activity.

1.5 TECHNICAL AUTHORITY

- .1 Technical Authority is defined as the Base Construction Engineering Officer (BCEO) or their delegated representative.

1.6 ACCEPTABILITY OF MATERIALS

- .1 Suppliers shall base their bids on materials specified and shall not allow in tenders for substitution of materials. All requests for substitution of materials shall be referred to the BCEO supported by such manufacturer's test data, samples and installation manuals as may be required to carry out an assessment of substitutes. In no event shall the substitute deviate substantially from the original specified.
- .2 Where products are specified "no equal", there is a requirement to maintain conformity and/or compatibility. In this case no substitutes will be considered.

1.7 MATERIAL HANDLING

- .1 The Supplier is responsible to ensure that all materials transported, supplied, stored, handled, used and disposed of, under this contract, shall conform to the appropriate requirements designated by the Provincial and Federal Departments of Environment wherever applicable.

1.8 MANUFACTURER'S DIRECTIONS

- .1 All manufacturer's items shall be supplied and installed as directed by manufacturer.

1.9 WORKMANSHIP

- .1 Must meet the latest Canadian Electrical Code Standard.
- .2 Latest Ministry of Transportation MTO for trailer and mounted equipment.
- .3 Canadian Motor Vehicle Safety Standards for trailer mounted equipment.

1.10 PROTECTION

- .1 It is the Suppliers responsibility to take all required precautions to protect from damage all DND and occupants personal property and to make good damage caused by them during the performance of this requirement.
- .2 Arrangements shall be made through the Technical Authority to provide adequate notice, if required, in advance of starting date to enable occupants to remove, relocate or to be advised as to protection for the contents of the building.

1.11 TRAINING

- .1 The Supplier will provide for two hours of on site Training for up to 4 CE personal on the complete Load bank operation and Safety operation procedures.

1.12 STANDARDS

- .1 Throughout this specification, reference has been made to certain local and national standards. These standards shall be considered an integral part of the specification and shall read in conjunction with the drawings and specifications as if they were reproduced herein.
- .2 When reference is made to certain detailed drawings, catalogues, or similar related data as published by manufacturers, the Supplier shall be responsible for obtaining sources.

- .3 Where reference is made to standards, the latest edition shall always govern unless a specifically dated edition is mentioned.

.1 Canadian Electrical Code part 1, 21 edition

.2 National Electrical Manufacturers Association (NEMA)

.3 Canadian Motor Vehicle Safety Standards for trailer mounted equipment.

1.13 WARRANTY

- .1 The Supplier shall warranty all newly installed equipment, materials and the labour involved in work carried out by the Supplier under this requirement for a period of one (1) year. Where the manufacturer's warranty exceeds the one (1) year period, the Supplier shall have the warranty(ies) made out in favour of the Department of National Defence and a copy delivered to CFB Petawawa S111 CE section. All warranties are to be in effect as of the date of delivery.

1.14 SMOKING REGULATIONS

- .1 The Supplier and their personnel will be required to adhere to the no smoking regulations, as set out for the buildings/areas concerned, during the execution of the work on this requirement.

1.15 CLEAN-UP

- .1 Cleaning will consist of daily policing and clean-up for the duration of the work period. On completion of the work requirement, all tools, equipment, surplus materials and debris will be removed from the work area and the site left in a clean and tidy condition.

1.16 ENVIRONMENTAL PROTECTION

- .1 The Supplier is responsible to ensure that the methods of collection, transportation, storage, processing and disposal, as well as the equipment used therein, meets, and will continue to meet, all applicable municipal, regional, provincial and federal environmental legislation, and further will abide by all such legislation.
- .2 The Unit will be delivered Ready to use all creating and packaging material will be removed and disposed of off Base.
- .3 WHMIS regulations will be strictly complied with on all aspects of the Requirement.

END OF SECTION

National Defence
PF# 9760-89171
CFB/ASU Petawawa, ON

POWER GENERATION DIESEL

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Part 1 General

1.1 REFERENCES

- .1 Canadian Electrical Code, Part 1, 21 Edition C22.1-09
- .2 CSA/ULC standards
- .3 Canadian Motor Vehicle Safety Standards
- .4 National Electrical Manufacturers Association (NEMA)
 - .1 NEMA MG 1-2006(R2007), Motors and Generators.

1.2 ACTION AND INFORMATIONAL, SHOPDRAWINGS

- .1 Submit the following documents:
 - .1 Trailer specifications
 - .2 25KW to 1000KW load bank unit specifications
 - .3 Weather Proof enclosure the load bank will be mounted in
 - .4 Type of resistive load bank devices being used

1.3 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for Load bank unit
- .2 Include in Operation and Maintenance Manual instructions for particular unit supplied and not general description of units manufactured by supplier and:
 - .1 Operation and maintenance instructions for load bank, control panel, ventilation system, and accessories, to permit effective operation, maintenance and repair.
 - .2 Technical data:
 - .1 Illustrated parts lists with parts catalogue numbers.
 - .2 Schematic diagram of electrical controls.
 - .3 Trouble shooting chart.
 - .4 Repair manual (with diagrams and explanations on how to replace components).

- .5 Certified copy of factory test results.
- .6 Precise details for adjustment and setting load bank controls which require on site adjustment.
- .7 Safety Operating Procedures.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivered to CFB Petawawa, S-111, CE tool crib, on or before 28 March 2013.

Part 2 Products

2.1 SYSTEM DESCRIPTION

- .1 Diesel generator portable load bank
- .2 Multiple voltages, 600VAC 3-phase, 120/208 3-phase, 480VAC 3-phase and 120/240v single phase.
- .3 Adjustable at all voltages from 25KW, to 50KW to 100KW to 150 KW to 300KW to 500KW to 750KW to 1000KW.
- .4 Camlok connection points for all load connection points.

2.2 CONTROL PANEL

- .1 Totally enclosed, mounted inside WP enclosure, NEMA 3R
- .2 Digital Meters: Voltage settings, Amperage draw, frequency percentage of load, power factor and kilowatts.
- .3 Selector switches for power on/off
- .4 Load on/off push button
- .5 Toggle switches for each load step

2.3 PROTECTION DEVICES

- .1 Air flow
- .2 High Temperature
- .3 All load circuits fused

2.4 STEEL MOUNTING ENCLOSURE

- .1 Totally enclosed weather proof
- .2 Door opening for connection points Camlok
- .3 Door opening for access to control panel

2.5 TRAILER MOUNTED

- .1 Steel construction
- .2 Rated for the 150% of the weight of the equipment and load bank installed on it.

- .3 Minimum 7000lb capacity
- .4 Canadian Motor Vehicle Safety Standards approved for highway travel
- .5 C/W springs, lights, ball hitch, safety chains, wiring
- .6 Metal weatherproof Cable storage box built into Trailer.
- .7 Electric brakes

2.6 FABRICATION

- .1 Shop assemble load bank unit including:
 - .1 25KW loading to 1000kw loading, load bank unit
 - .2 Weather proof self contained enclosure
 - .3 Control panel, connection points
 - .4 Trailer mounted

2.7 FINISHES

- .1 Black Exterior Powder Coat Metal paint.

2.8 SOURCE QUALITY CONTROL

- .1 Factory test Load bank and accessories and submit testing report to Technical Authority
- .2 Test procedure:
 - .1 **Test at 600v 3-phase** and load unit to 25KW load, 50KWload, 100KWload, 150KWload, 300KWload, 500KW load, 750KWload, 1000KW loading, record all readings.
 - .2 **Test at 120/208 3-phase** and load unit to 25KW load, 50KWload, 100KWload, 150KWload, 300KWload, 500KW load, 750KWload, 1000KW loading, record all readings.
 - .3 **Test at 120/240v 1-phase** and load unit to 25KW load, 50KWload, 100KWload, 150KWload, 300KWload, 500KW load, 750KWload, 1000KW loading, record all readings.

Part 3 Execution

- 3.1** SUPPLY AND DELIVER PORTABLE ADJUSTABLE FROM 25KW TO 1000KW LOAD BANK UNIT TO CFB PETAWAWA BUILDING S-111 ON OR BEFORE 28 MARCH 2013.

END OF SECTION

ANNEX “B”**Basis of Payment**

Item	Description	Unit of Issue	Est. Qty	Unit Price
1	Provide a complete portable 25kw loading to 1000kw load bank mounted to a trailer as per the specification attached. Proposed Model: _____	LOT	1	\$_____
2	Provide two hours of on site training for up to 4 CE personnel on the complete load bank operations	LOT	1	\$_____