



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Travaux publics et Services gouvernementaux
Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^{ème} étage
Montréal
Québec
H5A 1L6
FAX pour soumissions: (514) 496-3822

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 Electric generator	
Solicitation No. - N° de l'invitation W0130-15M308/A	Date 2016-01-26
Client Reference No. - N° de référence du client W0130-15M308	
GETS Reference No. - N° de référence de SEAG PW-\$MTA-309-13717	
File No. - N° de dossier MTA-5-38315 (309)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-03-07	
Time Zone Fuseau horaire Heure Normale du l'Est HNE	
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: Paradis, Mary	Buyer Id - Id de l'acheteur mta309
Telephone No. - N° de téléphone (514) 496-3874 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: MINISTERE DE LA DEFENSE NATIONALE Garnison de Saint-Hubert 4820 Leckie Saint-Hubert Québec J3Z 1H6 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

Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7^{ème} étage
Montréal
Québec
H5A 1L6

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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM		Delivery Req. Livraison Req.	Del. Offered Liv. offerte
						Destination	Plant/Usine		
1	The purchase, delivery and installation of an electric generator. Details in the Request for proposal.	W0130	W0130	1	EA	\$	XXXXXXXXXXXX		

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Amd. No. - N° de la modif.
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MTA-5-38315

Buyer ID - Id de l'acheteur
MTA 309
CCC No./N° CCC - FMS No./N° VME

BASIS OF PAYMENT

ANNEX "C" **18**

MANDATORY TECHNICAL EVALUATION CRITERIA

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There are no security requirements for this procurement.

1.2 Statement of Requirement

The requirement is detailed under Annex 'A' – Requirement

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

1.4 Trade Agreements

"The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 3 of Section 01 Integrity Provisions - Bid of the Standard Instructions 2003 incorporated by reference above is deleted in its entirety and replaced with the following:

3. List of Names

- a. 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(s), at the time of submitting a proposal under the Request for Proposal (RFP).
- b. These Bidders must immediately inform Canada in writing of any changes affecting the list of directors during this procurement process.

Subsection 5.4. of article 05 – Submission of bids of 2003 , Standard Instructions – Goods or Services – Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.1.1 SACC Manual Clauses

B1000T 2014-06-26 Condition of material -Bid

2.2 Submission of Bids

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

2.2.1 Improvement of Requirement during Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at **least 15 days** before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **7 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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the **Province of Quebec**.

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

3.1 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)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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 (Annex 'B'). The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450](#),  Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](#),  for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a. Conformity to the mandatory technical criteria which are included in Annex 'C' – Mandatory technical criteria;
- b. Acceptance of terms and conditions as mentioned in the bid solicitation.

4.1.1.2 Evaluation method for the mandatory technical criteria

- a. At the bid closing date, bids will be evaluated on the preselected mandatory specifications at Annex 'C'.
- b. To demonstrate that your PRODUCT meets all preselected mandatory specifications, bidders must submit WITH their bid, a copy of complete specifications and descriptive literature (technical documents such as data sheets, user manual or other) of the PRODUCT offered. The technical documents must be already existing standards documents.

OTHER technical mandatory evaluation criteria at Annex 'C' such as: Supplier qualifications , poster, documents ,labeling, factory test, start-up , warranty and training have also to be demonstrated and provided for the technical evaluation process.

- c. Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Website addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory financial criteria

- a. Compliance with the methods for setting the proposed prices;
- b. Firm prices must be provided for all items listed on Annex 'B' – Basis of payment.

SACC Manual Clause

A0220T 2014-06-26 Evaluation of Price –Bid
A0222T 2014-06-26 Evaluation of Price - Canadian / Foreign Bidders

4.1.3 Price Evaluation

The prices at Annex 'B' – Basis of payment will be evaluated as follows:

Firm unit price x quantity of each item (for items 1 to 3) = Total price of each item

Total firm price of all items 1+2+3 = The total price of the contract (All applicable taxes are extra).

4.2 Basis of Selection

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 AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information 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 made knowingly or unknowingly, 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 and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

5.2.2 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) available from [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

There are no security requirements for this contract.

6.2 Statement of Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received at the very latest for **March 31, 2016**.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: MARY PARADIS
Title: CONTRACTING OFFICER
Public Works and Government Services Canada
Acquisitions Branch
Directorate: QUEBEC REGION
Address: 800 rue de la Gauchetière, Ouest
7th Floor, Place Bonaventure
Montreal, QC

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W0130-15-M308

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-5-38315

Buyer ID - Id de l'acheteur
MTA 309
CCC No./N° CCC - FMS No./N° VME

Telephone: (514) 496-3874
Facsimile: (514) 496-3822
E-mail address: mary.paradis@pwgsc.gc.ca

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

6.5.2 Contractor's Representative

Name: _____
Title: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

6.5.3 Contact at customer department:

For all information related to invoicing and/or payments you may communicate with:
(To be completed at the award phase of the contract)

Customer department: _____
Name: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment – Firm unit prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in Annex B – Basis of payment for a cost of \$ _____ (The amount will be inserted at contract award). Customs duties are _____ (Insert the words "included", "excluded" OR "subject to exemption") 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.

6.6.2 Limitation of Price

SACC Manual clause C6000C 2011-05-16, Limitation of Price

6.6.3 SACC Manual clause H1000C 2 0 0 8 -05-12, Single payment

6.6.4 SACC Manual clauses

C2000C	2007-11-30	Taxes - Foreign-based Contractor
C2605C	2008-05-12	Canadian Customs Duties and Sales Tax - Foreign-based Contractor

6.7 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:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (To be completed. The name of the province or territory as specified by the Bidder in its bid, if applicable, will be inserted here).

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2015-09-03) Goods (medium complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of payment;
- (e) Annex C, Mandatory technical evaluation criteria;
- (f) the Contractor's bid dated _____, as clarified on _____ "or", as amended on _____.

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6.11 **SACC Manual Clauses**

B7500C 2006-06-16 Excess Goods
G1005C 2008-05-12 Insurance

6.12 **Transportation costs**

The contractor must ship the goods prepaid via _____ (insert the method of transportation) including all delivery charges to **(The Department of National Defense, St Hubert Garrison, 4820 Leckle, Saint Hubert, QC)**. Prepaid transportation costs must be shown as a separate item on the invoice, supported by a certified copy of the prepaid transportation bill of lading.

6.13 **Shipping Instructions**

Shipping Instructions – Delivery at destination

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

Delivered Duty Paid (DDP) to **(The Department of National Defense, St Hubert Garrison, 4820 Leckle, Saint Hubert, QC)**.

Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A"

STATEMENT OF REQUIREMENT

THE PURCHASE, DELIVERY AND INSTALLATION OF AN ELECTRIC GENERATOR

PART 1: REQUIREMENT

1. Need

Request for Proposal to purchase an electric generator including delivery and installation and start-up (turnkey).

2. Delivery

Saint-Hubert Garrison
4820 rue Léckie
St-Hubert (Québec)
J3Z 1H6

3. Application

GENERATOR SET

1 - General:

Supply a CSA generator set capable of 100% one step loading. The installation must comply with CSA/CSA-C282 and CAN/CSA-B139.

2- Supplier qualifications:

The supplier must offer a 24 hours /365 days service; be involved in generator business for a minimum of 5 years ; have a licence from RBQ (Régie de bâtiment du Quebec) or equivalent and CMEQ (Corporation des Maîtres Électriciens du Québec) or equivalent ; have an engineer member of "Ordre des ingénieurs du Québec" or equivalent in his team; have a minimum of 2 technicians on the road and be equipped with a computerized test cell .

3- Capacity of the generator:

125kW, 156,25kVA standby, 60Hz, 3ph, 4W, 347/600V.

4- Engine:

Diesel, liquid cooled, 147 BHP @ 1800RPM, EPA tier 3.

5- Cooling:

Unit mounted 50°C radiator with maximum air flow of 218,3 m³/min @ 125 PA restriction.
Accessories: duct flange, protective guards, coolant, drain valve (for radiator and engine), 1500W/120V block heater.

6- Lubrication:

Drain valve and extension hose, first fill and closed crankcase vent.

7- Governor:

Isochronous with $\pm 0.25\%$ stability at steady state.

8- DC electrical system:

12V battery charging alternator, 850 CCA battery, battery rack, 12V/6A battery charger with 3 charging rate pilot lights, reverse polarity and short-circuit protection, input range from 90 to 135Vac, 2500V insulation between input and output.

9- Exhaust:

Stainless steel exhaust flexible, critical silencer with drain plug.

10- Frame:

The skid frame and the radiator must be vibration isolated from the engine-alternator assembly.

11- Control panel (MGC-1500):

The control panel must be microprocessor based, able to operate in the range of -40°C to 70°C , shall be UL 508R and CSA C22.2 no 14 approved. It **must** be equipped of a LCD display with backlight, pushbuttons (edit, arrow, reset, run, off, auto, alarm silence, lamp test), indicators (supplying load, alarm, not in auto, operating mode), and alarm horn. A generator set shutdown must be activated in the following conditions: low oil pressure, high engine temperature, low water level, low fuel level, over speed, over crank, engine sender failure, fuel level sender failure, fuel leak, emergency stop, critical low fuel shutdown, under/overvoltage, reverse power, under /over-frequency, loss of excitation. An alarm must be activated without generator set shutdown in the following conditions: low oil pressure pre-alarm, high engine temperature pre-alarm, low water temperature, battery overvoltage, weak battery, battery charger failure, main breaker open, engine sender failure, kW overload (3 levels), maintenance interval timer, low coolant level, low fuel level, fuel leak, high fuel level.

The following metering must be provided: V, A, Hz, kW, kVA, PF, oil pressure, engine temperature, RPM, battery voltage, fuel level, run timer, number of successful engine starts, data from J1939 communication port. Other functionalities: date and time stamped failure history, transfer switch control, RS-485 communication port (Modbus-RTU protocol), programmable logic with timers and logic gates, J1939 communication with engine, 6 programmable digital inputs, programmable output contacts (3 x 5A et 4 X 2A).

12- Alternator:

150kW / 187,5KVA, 347/600V, class H insulation, 150°C temperature rise, brushless PMG excitation, 390 SKVA @ 35% voltage dip. Provide 1 x 150A breakers, one with position contact wired to the control panel.

13- Fuel:

#2 diesel, 2.7m lift fuel pump, manual priming pump, primary and secondary fuel filters, water separator. Metallic flexible fuel lines, ULC-842 isolation valve installed directly on the tank on the fuel supply line. The plumber must extend the normal and emergency vents and the fill pipes to the outside of the building. Accessories: sealed level gauge, 240-30 Ω level sender and leak contact (wired to the control panel), whistle, emergency pressure relief vent.

14- Transfer switches Asco

Contact type, mechanically shield, in a NEMA 1 enclosure, 347/600V, continuous rating of 200A 3P, 4W, 60Hz, WCR of 10kA (with coordinated breaker). The control must include: inphase monitor, normal and emergency 3ph programmable protections (for under/over-voltage, under/over-frequency, phase rotation and imbalance), programmable delays (TDES, TDNE, TDEN, TDEC, pretransfer), programmable exerciser with/without load. Test and programming buttons, neutral bar, dry contacts (position and pretransfer). A digital display must indicate system status, voltage, frequency, event log, programming, etc. CSA 22.2 no 178 and UL-1008 approved.

15- Poster:

Supply a poster labelling "Ce groupe électrogène peut démarrer à tout moment. DANGER. This automatic unit may start at any time."

16- Documents:

Complete PDF technical and parts drawings of the generator and 3 operation and maintenance manuals in CD format.

17- Labeling:

Provide the label required by the CSA C282 indicating a value of 180kW.

18 - Factory test:

Check for leaks and fluid levels. Make a visual inspection of the set. Read the block heater cold resistance, and verify that the thermostat opens as the engine warms up. Verify the control panel protections. Adjust the governor frequency, the generator voltage, and the V/Hz setting. Verify that the battery charging alternator runs properly. Verify the generator capability to carry full load.

19 - Start-up:

Verify that the emergency system installation complies with the manufacturer requirements.

Test the generator as per CAN/CSA C282-05 requirements. This test must include an hour of running with the building load, followed by 1 hour at 200kW, and 3 hours at 180kW using a load bank. Provide a report according to CAN/CSA C282. Demonstrate the 100% one step loading capability.

20- Warranty:

2 year / 3000 hours on parts, labor, and traveling expenses. The warranty will begin with the first commissioning. Any deductible shall be at the generator supplier's expense.

21- Soundproof shelter:

The silencer must be located inside the shelter. It has doors on hinges with locking handles surface mounted. The shelter has gratings and baffles restricting entry of water and snow in the shelter. The roof has a slope on both sides allowing the flow of water. The acoustic insulation meets UL 94. The shelter must withstand winds of 160 km / h. The average noise level around the shelter will 81,5dBa @ 7m.

22- Training:

The supplier of the electronic generator will the train the personnel that will be handling this unit, in its operation and maintenance. The training will be given during normal working hours from Monday to Friday. A demonstration of the emergency system will be given in the field.

PARTIE 2 – EXÉCUTION

1- General

The installation must be done by qualified employees. The technician(s) must have at least two (2) years experience to work with this type of generator.

2- Delivery

The generator will be delivered directly to the area of installation.

3- Installation

Ensure that the generator is installed at the required place as indicted in the Request for Proposal. .

4- Start-up

Ensure that the generator is working at one hundred (100%) percent capacity before leaving the area.

ANNEX "B"

BASIS OF PAYMENT

Note to suppliers: It is mandatory to mention the brand and the model of the equipment proposed.

ITEM No.	QUANTITY	DESCRIPTION	* FIRM PRICE	TOTAL
1	1	Electric Generator (As detailed at Annex A – Statement of requirements) Brand offered : _____ Model offered : _____ Note: Also included in the cost, are the material and products for the daily maintenance such as oils, lubricants and cleaning products and others.	\$ _____ /each	\$ _____
2	1	Installation charges and start- up (turnkey) charges (As detailed at Annex A – Statement of requirements) Note: Price includes labour, tooling, necessary equipment, and transport for the complete execution of the needs required.	\$ _____ /lot	\$ _____
3	1	Transport charges (FOB Destination)	\$ _____ / lot	\$ _____
			GRAND TOTAL: (for items 1 to 3)	\$ _____

*** ALL APPLICABLE TAXES ARE EXTRA**

ANNEXE 'C'

MANDATORY TECHNICAL EVALUATION CRITERIA

The information that figures in this table must be duly completed and submitted **at the closing date and hour of the solicitation.**

All the criteria identified below are MANDATORY.

For the PRODUCT being offered, each criteria must be met and accompanied with technical specifications, user manuals or other to explain and prove that each criteria will be met.

OTHER technical mandatory evaluation criteria in this grid have also to be demonstrated such as: Supplier qualifications (item no. 2), poster(item no. 15) , documents(item no . 16) , labeling(item no. 17), factory test (item no. 18), start-up (item no. 19), warranty (item no. 20)and training (item no. 22). We need to know how your firm will meet these criteria. Please provide details.

Failure to meet all of the mandatory technical criteria listed below will render your proposal non responsive. No further consideration will be given to your Proposal.

Please provide substantiating documents/cross reference to proposal for the following criteria:

1. Mandatory Technical Specifications:

Description	Identify where the substantiating document /cross reference to proposal is located in the bid package.
1 - General: Supply a CSA generator set capable of 100% one step loading. The installation must comply with CSA/CSA-C282 and CAN/CSA-B139.	
2-Supplier Qualifications : The supplier must: -offer a 24 hours /365 days service; - be involved in generator business for a minimum of 5 years; - have a licence from RBQ (Regie de bâtiment du Quebec) and CMEQ (Corporation des maîtres électriciens du Québec) or equivalent ; - have an engineer member of "Ordre des ingénieurs du Québec" or equivalent in his team; - have a minimum 5 technicians on the road; - be equipped with a computerized test cell. - Provide curriculum vitae for two qualified technicians with your bid. Must have a minimum of 2 years of experience with this type of generator.	
3- Capacity: 125kW, 156,25kVA standby, 60Hz, 3ph, 4W, 347/600V.	
4- Engine: Diesel, liquid cooled, 147 BHP @ 1800RPM, EPA tier 3.	
5- Cooling: Unit mounted 50°C radiator with maximum air flow of 218,3 m³/min @ 125 PA restriction. Accessories: duct	

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flange, protective guards, coolant, drain valve (for radiator and engine), 1500W/120V block heater.	
6- Lubrication: Drain valve and extension hose, first fill and closed crankcase vent.	
7- Governor: Isochronous with $\pm 0.25\%$ stability at steady state.	
8- DC electrical system : 12V battery charging alternator, 850 CCA battery, battery rack, 12V/6A battery charger with 3 charging rate pilot lights, reverse polarity and short-circuit protection, input range from 90 to 135Vac, 2500V insulation between input and output.	
9- Exhaust: Stainless steel exhaust flexible, critical silencer with drain plug.	
10- Frame: The skid frame and the radiator must be vibration isolated from the engine-alternator assembly.	
11- Control panel: (mgc-1500): The control panel must be microprocessor based, able to operate in the range of -40°C to 70°C, shall be UL 508R and CSA C22.2 no 14 approved. It must be equipped of a LCD display with backlight, pushbuttons (edit, arrow, reset, run, off, auto, alarm silence, lamp test), indicators (supplying load, alarm, not in auto, operating mode), and alarm horn. A generator set shutdown must be activated in the following conditions: low oil pressure, high engine temperature, low water level, low fuel level, over speed, over crank, engine sender failure, fuel level sender failure, fuel leak, emergency stop, critical low fuel shutdown, under/overvoltage, reverse power, under/over-frequency, loss of excitation. An alarm must be activated without generator set shutdown in the following conditions: low oil pressure pre-alarm, high engine temperature pre-alarm, low water temperature, battery overvoltage, weak battery, battery charger failure, main breaker open, engine sender failure, kW overload (3 levels), maintenance interval timer, low coolant level, low fuel level, fuel leak, high fuel level. The following metering must be provided: V, A, Hz, kW, kVA, kVAR, PF, oil pressure, engine temperature, RPM, battery voltage, fuel level, run timer, number of successful engine starts, data from J1939 communication port. Other functionalities: date and time stamped failure history, transfer switch control, RS-485 communication port (Modbus-RTU protocol), programmable logic with timers and logic gates, J1939 communication with engine, 17 programmable digital inputs, programmable output contacts (3 x 5A et 4 x 2A).	
12- Alternator: 150kW / 187,5KVA, 347/600V, class H insulation, 150°C temperature rise, brushless PMG excitation, 390 SKVA @ 35% voltage dip. Provide 1 x 150A breakers, one with position contact wired to the control panel.	
13- Fuel: #2 diesel, 2.7m lift fuel pump, manual priming pump, primary and secondary fuel filters, water separator. Metallic flexible fuel lines, ULC-842 isolation valve installed directly on the tank on the fuel supply line. The plumber must extend the normal and emergency vents and the fill pipes to the outside of the building. Accessories: sealed level gauge, 240-30 Ω level sender and leak contact (wired to the control panel), whistle, emergency pressure relief vent.	

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<p>14- Transfer switches Asco: Contactor type, mechanically shield, in a NEMA 1 enclosure, 347/600V, continuous rating of 200A 3P, 4W, 60Hz, WCR of 10kA (with coordinated breaker). The control shall include: inphase monitor, normal and emergency 3ph programmable protections (for under/over-voltage, under/over-frequency, phase rotation and imbalance), programmable delays (TDES, TDNE, TDEN, TDEC, pretransfer), programmable exerciser with/without load. Test and programming buttons, neutral bar, dry contacts (position and pretransfer). A digital display shall indicate system status, voltage, frequency, event log, programming, etc. CSA 22.2 no 178 and UL-1008 approved.</p>	
<p>15- Poster: Supply a poster labelling "Ce groupe électrogène peut démarrer à tout moment. DANGER. This automatic unit may start at any time."</p>	
<p>16- Documents: Complete PDF technical and parts drawings of the generator , and 3 operation and maintenance manuals in CD format.</p>	
<p>17- Labeling : Provide the label required by the CSA C282 indicating a value of 180kW.</p>	
<p>18 - Factory test: Check for leaks and fluid levels. Make a visual inspection of the set. Read the block heater cold resistance, and verify that the thermostat opens as the engine warms up. Verify the control panel protections. Adjust the governor frequency, the generator voltage, and the V/Hz setting. Verify that the battery charging alternator runs properly. Verify the generator capability to carry full load.</p>	
<p>19 - Start-up: Verify that the emergency system installation complies with the manufacturer requirements. Test the generator as per CAN/CSA C282-05 requirements. This test must include an hour of running with the building load, followed by 1 hour at 200kW, and 3 hours at 180kW using a load bank. Provide a report according to CAN/CSA C282. Demonstrate the 100% one step loading capability.</p>	
<p>20- Warranty: 2 year / 3000 hours on parts, labor, and traveling expenses. The warranty will begin with the first commissioning. Any deductible shall be at the generator supplier's expense.</p>	
<p>21- Soundproof shelter: The silencer must be located inside the shelter. It has doors on hinges with locking handles surface mounted. The shelter has gratings and baffles restricting entry of water and snow in the shelter. The roof has a slope on both sides allowing the flow of water. The acoustic insulation meets UL 94. The shelter must withstand winds of 160 km / h. The average noise level around the shelter will 81,5dBa @ 7m.</p>	
<p>22- Training: The supplier of the electronic generator will the train the personnel that will be handling this unit, in its operation and maintenance. The training will be given during normal working hours from Monday to Friday. A demonstration of the emergency system will be given in the field.</p>	