



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

Voir dans le document/
See herein

NA

Québec

NA

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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

TPSGC/PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

Title - Sujet Electrical Power Data Loggers (EPDL)	
Solicitation No. - N° de l'invitation 23332-201000/A	Date 2020-06-02
Client Reference No. - N° de référence du client 23332-201000	
GETS Reference No. - N° de référence de SEAG PW-\$QCL-053-17928	
File No. - N° de dossier QCL-0-43002 (053)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-07-14	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Godin, Joanne	Buyer Id - Id de l'acheteur qcl053
Telephone No. - N° de téléphone (581) 397-6683 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: MINISTERE DES RESSOURCES NATURELLES CAMNET Centre de la technologie 1615 BOUL.LIONEL BOULET CP4800 VARENNES Québec J3X1S6 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.2 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.

1.3 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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) (<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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

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

PWGSC Québec Region Bid Receiving Unit

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca

Note: **Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.

2.3 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 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.

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File No. - N° du dossier
QCL-0-43002

Buyer ID - Id de l'acheteur
qc1053
CCC No./N° CCC - FMS No./N° VME

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 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

The Bidder must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

Bids transmitted by facsimile or hardcopy will not be accepted.

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

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.

3.1.2 Exchange Rate Fluctuation

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

3.1.3 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications and additional information 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) The bidder must include with its proposal the datasheets/technical literature/brochures of the products offered.
- (b) At the closure date, bids will be evaluated on the following technical requirements at Annex "C" – Mandatory technical criteria.

IMPORTANT: The bidder should clearly demonstrate how the proposed equipment complies to each mandatory technical criteria at Annex "C". Simply stating that the criteria are met is not sufficient. Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical criteria listed in the Table of technical compliance (Annex "C") for each site for which the bidder wishes to bid will be considered non-responsive.

4.1.2 Financial Evaluation

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) Quebec Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on an DDP basis.

4.2 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 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. Unless specified otherwise, 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 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

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 – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

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" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/canada/esdc-labour) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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.

5.2.3 Canadian Electrical Association Standards

The bidder should demonstrate that the proposed equipment complies with the Canadian Electrical Association Standards IEC 61010-1 and IEC 61010-2-030.

5.2.4 OEM Certification

- (a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.
- (b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate certification is required from each OEM.
- (c) For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

Form 1	
OEM Certification Form	
This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.	
Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Name of Bidder	_____

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 is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide Electrical Power Data Loggers (EPDL), and accessories, in accordance with 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to twelve (12) months after acceptance.

6.4.2 Delivery Date

All the deliverables must be received maximum 3 months after Contract award.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Joanne Godin
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Telephone: 581-397-6683
E-mail address: joanne.godin2@tpsgc-pwgsc.gc.ca

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QCL-0-43002

Buyer ID - Id de l'acheteur
qc1053
CCC No./N° CCC - FMS No./N° VME

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

6.5.2 Technical Authority *(will be filled upon 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.

6.5.3 Contractor's Representative

Name: _____
Title: _____

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

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be firm unit prices as specified in Annex "B", for a cost of \$ _____. 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.

6.6.2 Terms of Payment

SACC Manual clause H1001C (2008-05-12) Multiple Payments

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.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

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

6.10 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 (2020-05-28), Goods (medium complexity);
- (c) Annex "A", Requirement;
- (d) Annex "B", Basis of Payment;
- (e) Annex "C", Mandatory technical criteria
- (f) the Contractor's bid dated _____ (*insert date of bid*).

6.11 SACC Manual Clauses

<u>G1005C</u>	2016-01-28	Insurance - No Specific Requirement
<u>B7500C</u>	2006-06-16	Excess Goods

ANNEX "A" - REQUIREMENT

1. TITLE

ELECTRICAL POWER DATA LOGGER EQUIPMENT FOR THE HALIFAX-CLASS FRIGATE PLATFORM

2. BACKGROUND

Defence Research and Development Canada (DRDC) Atlantic, seeks to develop energy initiatives and technologies with the specific goal of increasing energy efficiency while decreasing the energy intensity of Royal Canadian Navy (RCN) platforms. The DRDC "Ship Exploitation of Energy Data (SPEED)" project activity aims to do this through understanding baseline energy use, developing and validating ship energy models, and enabling energy efficient operations by applying data analytics to ship platform power and energy data. SPEED is a collaborative project between various ministries to leverage the knowledge and experience from the Department of National Defence (DND), Natural Resources Canada (NRCan), the National Research Council (NRC) and the Naval Engineering Test Establishment (NETE). As such, the NRCan, CanmetENERGY Research lab in Varennes, with their knowledge and expertise in energy audits and energy modeling has been tasked by DRDC Atlantic to develop an energy metering plan and procure the required electrical meters to conduct an energy audit of an RCN ship platform to support the eventual development and validation of an energy model. The electrical metering is necessary to derive a rigorous and authoritative understanding of the electrical load distribution on the Halifax-Class frigate platform through electrical load measurements. As a result, NRCan is seeking a commercial off the shelf electrical power data loggers, and accessories, for data collection during ship operations.

3. ACRONYMS

AC	Alternating Current
DRDC	Defence Research and Development Canada
EPDL	Electrical Power Data Logger
RCN	Royal Canadian Navy
RMS	Root Mean Square
SOR	Statement of Requirement
SPEED	Ship Platform Exploitation of Energy Datasets
TA	Technical Authority

5. REQUIREMENTS

5.1 Electrical Power Data Loggers (EPDL)

Required quantity: 69

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Measurement Parameters	V, I, VA, VAR, W, Wh, VAh, VARh, Power Factor, Frequency
Accuracy of measurement parameters	Single Phase RMS V @50/60Hz: $\pm 0.2\%$ Reading ± 0.2 V Phase to Phase RMS V @ 50/60 Hz: $\pm 0.2\%$ Reading ± 0.4 V Amperage: $\pm 1\%$ Active Power (P): $\pm 0.5\%$ Reading, $\pm 0.005\%$ Nominal P Reactive Power (Q): $\pm 1\%$ Reading, $\pm 0.01\%$ Nominal Q Apparent Power (S): $\pm 0.5\%$ Reading, $\pm 0.005\%$ Nominal S Power Factor: ± 0.05 Active Energy (EP): $\pm 0.5\%$ Reading Reactive Energy (EQ): $\pm 2\%$ Reading Apparent Energy (ES): $\pm 0.5\%$ Reading Frequency: ± 0.1 Hz
Voltage Range	0-1,000V (1000V CAT III and 600V CAT IV);single phase and 3-phase systems
Amperage Range	0-10,000A AC
Data interval	User selectable measurement intervals from 1 second to 60 minutes
Time-stamp	Real-time clock for time stamped data
Mount type	Magnetic
Physical dimensions (does not include power adaptor, current probe leads or potential probe leads)	Due to confined space, physical dimensions and orientation (see 10. <i>Physical dimensions of a typical electrical panel</i> : <ul style="list-style-type: none"> The EPDL will be mounted on the top part of the electrical panel to be measured The EPDL will be installed within the enclosure of the panel The length of the EPDL must be maximum 260 mm The width of the EPDL must be maximum 160 mm The depth of the EPDL (protrusion from the face of the electrical panel) must be maximum 45 mm
Data memory	On-board and/or swappable SD- or SDHC-card memory storage Minimum 8 GB memory capacity
Data format	ASCII or CSV
Communication	USB or Ethernet port
EPDL Power	Power provided by adapter (see 5.2.7) with battery backup (minimum 30 minute storage capacity)
Configuration, data collection and viewing interface	Data collection, logger configuration and data viewing must be done through a stand-alone software program compatible with Windows 7 and newer Windows operating systems.
Installation	Standalone unit which can be installed within electrical panel with minimal modification, self-protected (does not require addition of breakers to panels), does not require to bring or produce different voltage within the panel, does not require design of a power supply

Compliance	IEC 61010-1 and IEC 61010-2-030 Canadian Electrical Association Standards
Operating temperature range and relative humidity (RH)	10°C to 50°C up to 85% RH
Storage temperature range	-20°C to 50°C

5.2 Accessories

The Contractor must provide the following accessories with the following specifications:

Item	Description	Required quantity
5.2.1	CD, DVD or USB including on each one of them the Operation and Technical Manuals of the electrical power data loggers, in Adobe PDF format, in English.	6
5.2.2	CD, DVD or USB including on each one of them the EPDL software of the electrical power data loggers, in English.	6
5.2.3	Flexible current probe with clamping diameter of maximum 70mm (2.75 inches) (calibrated). Current probe lead length of at least 3 m (10 ft). (200mA to 3,000A range, 10,000A peak).	207 (69 three-phase circuits*)
5.2.4	Flexible current probe with clamping diameter of maximum 197 mm (7.75 inches) (calibrated). Current probe lead length of at least 3 m (10 ft). (200mA to 10,000A range, 12,000A peak).	Total: 12 (4 three-phase circuits*)
5.2.5	Flexible current probe with clamping diameter of maximum 292 mm (11.5 inches) (calibrated). Current probe lead length of at least 3 m (10 ft). (200mA to 10,000A range, 12,000A peak).	Total: 6 (2 three-phase circuits*)
5.2.6	Potential Probes which are each identified by a colour marker with a lead length of at least 3 m (10 ft) and with Alligator Clip {Rated for 600 V CAT IV, 10A} 4 colours per set: 5.2.6.1 Cable with alligator clip and black colour marker (69) 5.2.6.2 Cable with alligator clip and blue colour marker (69) 5.2.6.3 Cable with alligator clip and red colour marker (69) 5.2.6.4 Cable with alligator clip and white colour marker (69)	69 Sets of 4 cables
5.2.7	EPDL Power adapter** with the following range of use: 110 to 277 Vac Phase to Neutral 110 to 480 Vac Phase to Phase Maximum input voltage: Permanent 530 Vac, Transient: 550 Vac Minimum input : 85 V	69

* One current probe per phase, 3 phases per circuit must have a current probe.

**Power adapter is required in order to accommodate powering the EPDL from phase power versus an external supply.

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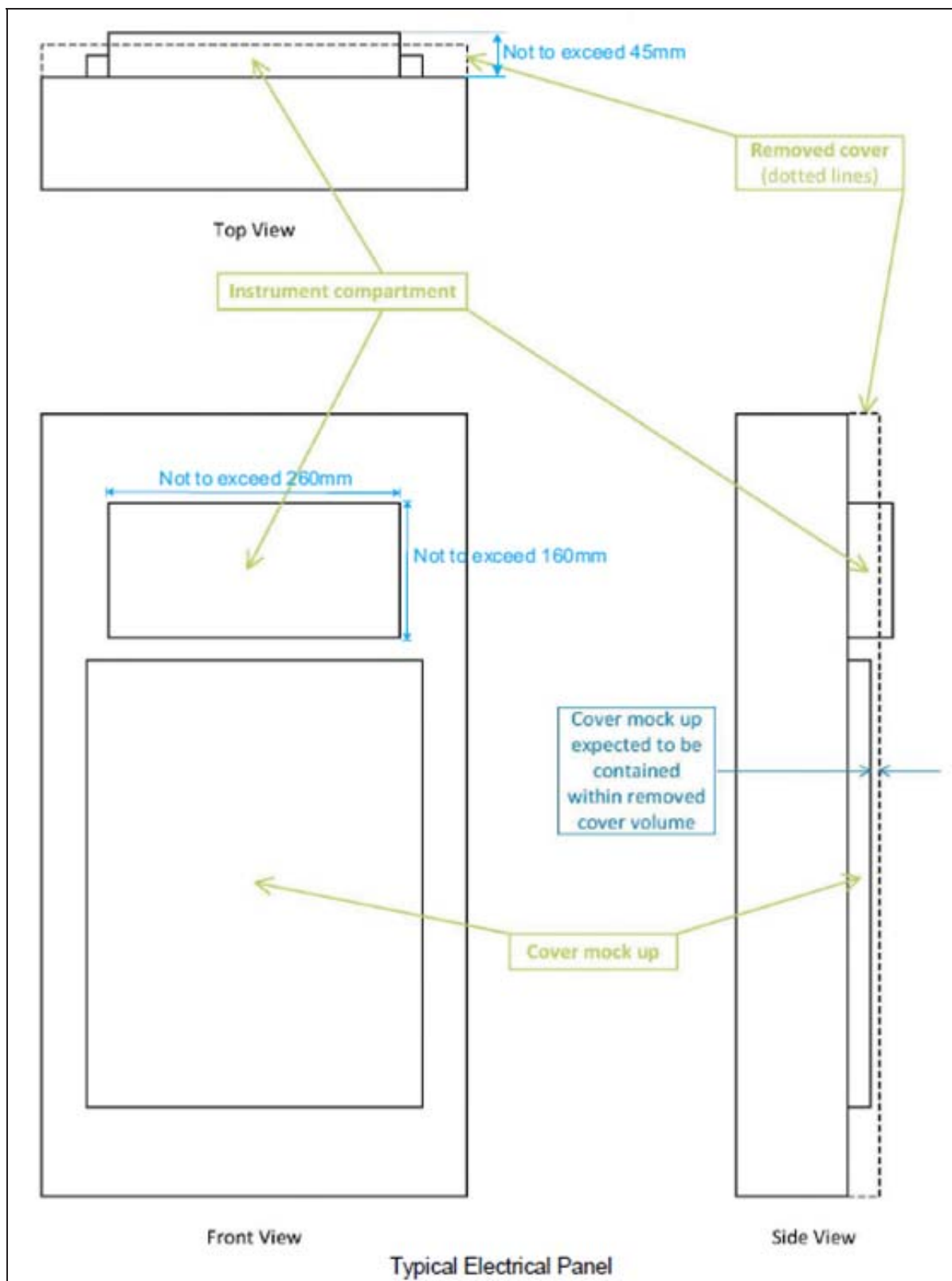
Amd. No. - N° de la modif.
File No. - N° du dossier
QCL-0-43002

Buyer ID - Id de l'acheteur
qc1053
CCC No./N° CCC - FMS No./N° VME

9. DELIVERY LOCATION

Natural Resources Canada
Government of Canada
1615 boul Lionel-Boulet,
Varennnes, QC J3X 1P7
Canada

10. PHYSICAL DIMENSIONS OF A TYPICAL ELECTRICAL PANEL



ANNEX "B" – BASIS OF PAYMENT

Art.	Description	Qty	UD	Firm Unit Price	Total Firm Price
1	Electrical Power Data Loggers (EPDL), in accordance with Annex "A" (Item 5.1): Brand : _____ Model : _____	69	EACH	_____ \$	_____ \$
2	EPDL Power adapter, in accordance with Annex "A" (Item 5.2.7).	69	EACH	_____ \$	_____ \$
3	Flexible current probe with clamping diameter of maximum 70mm (2.75 inches) in accordance with Annex "A" (Item 5.2.3).	207	EACH	_____ \$	_____ \$
4	Flexible current probe with clamping diameter of maximum 197 mm (7.75 inches), in accordance with Annex "A" (Item 5.2.4).	12	EACH	_____ \$	_____ \$
5	Flexible current probe with clamping diameter of maximum 292 mm (11.5 inches), in accordance with Annex "A" (Item 5.2.5).	6	EACH	_____ \$	_____ \$
6	Potential Probes which are each identified by a colour marker with and in accordance with Annex "A" (Item 5.2.6).	69	LOT/4 cables set	_____ \$	_____ \$
7	Operation and Technical Manuals of the electrical power data loggers, in accordance with Annex "A" (Item 5.2.1).	6	EACH	_____ \$	_____ \$
8	EPDL software of the electrical power data logger, in accordance with Annex "A" (Item 5.2.2).	6	EACH	_____ \$	_____ \$
9	DDP (Quebec, Quebec, Canada), including customs duties, handling and the delivery.	1	LOT	_____ \$	_____ \$
TOTAL BID PRICE (TBP) =					_____ \$
Note: Prices in Canadian dollars excluding sales Taxes.					

ANNEX “C” – MANDATORY TECHNICAL CRITERIA

At the closure date, bids will be evaluated on the following technical requirements at Annex “C” - Mandatory technical criteria.

IMPORTANT: the bidder should clearly demonstrate how the proposed equipment complies to each mandatory technical criteria. Simply stating that the criteria are met is not sufficient. Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical criteria listed in the Table of technical compliance will be considered non-responsive.

TABLE OF TECHNICAL COMPLIANCE	
Mandatory Technical Criteria :	
Bidder's Specifications (should indicate the reference to the technical documentation included in Bid or indicate the exact information)	
1.	<u>Physical dimensions</u> -The length of the EPDL must be maximum 260 mm -The width of the EPDL must be maximum 160 mm -The depth of the EPDL (<i>protrusion from the face of the electrical panel</i>) must be maximum 45 mm
2.	<u>Voltage Range</u> The Electrical Power Data Loggers (EPDL) must have a voltage range of: <ul style="list-style-type: none"> 0-1,000V (1000V CAT III and 600V CAT IV); single phase and 3-phase systems
3.	<u>Amperage Range</u> The Electrical Power Data Loggers (EPDL) must have an amperage range of: <ul style="list-style-type: none"> 0-10,000A AC
4.	<u>Data Memory</u> The Electrical Power Data Loggers (EPDL) must be equipped with: <ul style="list-style-type: none"> On-board and/or swappable SD- or SDHC-card memory storage 8 GB memory capacity