



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

See herein for bid submission
instructions/

Voir la présente pour les
instructions sur la présentation
d'une soumission

NA

Manitoba

**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 RTK Survey System Systeme de leve RTK	
Solicitation No. - N° de l'invitation K8E11-210208/B	Date 2020-11-20
Client Reference No. - N° de référence du client K8E11-210208	
GETS Reference No. - N° de référence de SEAG PW-\$STN-205-5387	
File No. - N° de dossier STN-0-43062 (205)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Central Daylight Saving Time CDT on - le 2020-12-03 Heure Avancée du Centre HAC	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Baessler, Nancy	Buyer Id - Id de l'acheteur stn205
Telephone No. - N° de téléphone (306) 241-2826 ()	FAX No. - N° de FAX (306) 975-5397
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: ENVIRONMENT & CLIMATE CHANGE CANADA (NWRI) CONSIG # C8E11 11 INNOVATION BLVD SASKATOON Alberta S7N3H5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada/Réception
des soumissions Travaux publics et Services gouvernementaux
Canada
Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatche
S7K 0E1

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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

This bid solicitation cancels and supersedes previous bid solicitation number **K8E11-210208/A** dated **2020-09-24** with a closing of **2020-11-03 at 2:00 pm, (CST)**. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Annex "A" 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 Canadian Content

The requirement is subject to a preference for Canadian goods.

1.4 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.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.1.1 SACC Manual Clauses

B4024T	(2020-07-01)	No Substitute Products
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2.2 Submission of Bids

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 Western 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:

roreceptionSoumissions.wrbidreceiving@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.

2.2.1 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 five (5) 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 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.

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 Saskatchewan.

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.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

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
- Section IV: Additional Information

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.

Canada requests that bidders follow the format instructions described below in the preparation of hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

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Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

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

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.
- (c) The evaluation team will determine first if there are two 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 two 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.

4.1.1 Technical Evaluation

Mandatory and point rated technical evaluation criteria are included in Annex D.

4.1.2 Financial Evaluation

- (a) The financial evaluation will be conducted by calculating the Total Bid Price using the Annex B – Basis of Payment to be completed by the bidders.
- (b) The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded. Canadian customs duties and excise taxes included.

4.1.2.1 Evaluation of Price, as follows

The total Evaluated Price will be determined as follows:

At Annex B – Basis of Payment

Item 1 Extended Price + Item 2 Extended Price + Item 3 Extended Price + Item 4
Extended Price + Item 5 Extended Price + Item 6 Extended Price = **Bid Evaluated Price**

4.2 Basis of Selection

4.2.1 Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria; and
 - c. obtain the required minimum of 70 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 100 points.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.

4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Calculations	Bid Evaluated Price	\$55,000.00	\$50,000.00	\$45,000.00
	Technical Merit Score	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
Pricing Score		$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
Combining Rating		83.84	75.56	80.89
Overall Rating		1 st	3 rd	2 nd

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

5.1.2.1 Canadian Content Certification

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](#).

5.1.2.1.1 *SACC Manual* clause [A3050T](#) (2020-07-01) Canadian Content Definition

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->

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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/programs/employment-equity/federal-contractor-program.html#) 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.

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

6.1.1 There is no security requirement applicable to the Contract.

6.2 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

While delivery is requested by **2021-03-26** the best delivery that could be offered is _____

6.4.2 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Nancy Baessler, Procurement Specialist
Public Works and Government Services Canada
Acquisitions Branch
Suite 110, 101 22nd Street E
Saskatoon, SK

Telephone: 306 241 2826
E-mail address: nancy.baessler@pwgsc-tpsgc.gc.ca

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

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6.5.2 Project Authority

The Project Authority for the Contract is:

To be determined.

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____

Title: _____

Organization: _____

Address: _____

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 paid a firm price as specified in Annex "B" for a cost of \$_____ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work delivered has been accepted by Canada.

6.6.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

To be determined

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:

The original and one (1) copy must be forwarded to the address on page one for certification and payment.

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 Saskatchewan.

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), General Conditions, Goods;
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____

6.11 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

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- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

6.12 SACC Manual Clauses

G1005C (2016-01-28), Insurance – No Specific Requirement

ANNEX "A" REQUIREMENT

Floods and droughts have significant impacts on the aquatic ecosystem, human infrastructure, public safety and the economy. The ability to measure accurately water levels and bathymetry is crucial to estimating current water availability, and building predictive tools that can forecast conditions in the future. High resolution topographic and water level surveys require survey grade Global Positioning System (GPS) receivers with Real Time Kinetic (RTK) capability. This equipment will be used to establish stable and accurate benchmarks in several observation sites, often in remote locations, from which water level and topographic data can be obtained.

DELIVERY

While delivery is requested by 2021-03-26, the best delivery that could be offered is _____

REQUIREMENTS

- a. Hemisphere 321+ Dual frequency capable (L1 & L2) multi-GNSS capable receiver (GPS, GLONASS, BeiDou, Galileo & QZSS).
- b. Receiver should be capable of an overall performance of better than 2cm & 5cm horizontal and vertical respectively in RTK mode; and 1cm & 2cm horizontal and vertical respectively in long occupation static mode.
- c. System design must incorporate technology for high accuracy measurements even in extreme remote locations within Canada that are void of communication infrastructures.
- d. Receivers must be capable of operating as both a high precision base and as an RTK rover.
- e. Selectable recording intervals from 1 to 10 Hz.
- f. In RTK mode, receiver radio must be capable of operating in the frequency range of 410 to 470 MHz, with selectable channel spacing of 25 to 50 MHz, emitting in selectable power ranges from 0.5 to 1 Watt. Receiver must be capable of operating with the Pacific Crest ADL Vantage 35 Watt system.
- g. Receiver must be communication compatible and capable of being programmed with the Juniper Systems' Mesa 2 tablet, Windows 10 OS, running Carlson SurvCE software. This is the controller currently owned by the end user and it is the current standard for them and their collaborators.
- h. Capable of wired and wireless communication (Serial, USB; Wi-Fi, UHF, Cellular, and Bluetooth).
- i. Receiver must be capable of both internal data storage as well as onboard expandable memory through SD or micro SD card slots.
- j. Capable of operating with both autonomous on board battery power (dual battery system capable of hot swapping) and external 12VDC battery power. Receiver must have over voltage protection built into its circuitry.

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- k. Receiver must have built in Tilt correction software to compensate for up to a 12° rod holding error during RTK operations.
- l. Operating range from -30° C to +45° C; water proof & dust proof; Shock, impact and vibration tested for robust use in all Canadian environments.
- m. Portable by hand. Physical specifications of the receiver must not exceed: 1.4 kg weight; 15 cm depth; 15 cm height.
- n. Mountable to boats, floating platforms / hydroboards, snowmobiles and ATVs using standard 5/8"x11 female mount for threading onto survey tripods and rods.
- o. Must include batteries and power cables
- p. Must be accompanied by adjustable tripods and survey poles, the latter of which can extend.
- q. Compatible with Sontek and RDI ADCP systems
- r. Compatible with the SatLab SLD-100 Echo sounder for bathymetric mapping purposes.
- s. Incorporate Smart technology for ease of use and operation. Menu driven, intuitive, user friendly. Access to field manuals, software help screens and direct call support from the supplier.

SERVICE AND PARTS

All goods must come with a full one year warranty.

Training is to be provided as an optional feature that must be made available if the systems are not compatible with existing bathymetric and topographic survey gear, and staff are new to the receivers and accompanying equipment and software.

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ANNEX "B"
BASIS OF PAYMENT

Item	Description	Quantity (A)	Unit Price (B)	Extended Price (AxB)
1	Hemisphere 321+	4	\$ _____	\$ _____
2	Power Components Make/Model: _____	4	\$ _____	\$ _____
3	Mounting Components Make/Model: _____	4	\$ _____	\$ _____
4	Communication Components Make/Model: _____	4	\$ _____	\$ _____
5	Miscellaneous Components Make/Model: _____	4	\$ _____	\$ _____
6	Delivery / Shipping	4	\$ _____	\$ _____
Bid Evaluated Price				\$ _____

GST not included.

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ANNEX "C" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

ANNEX "D"

EVALUTION CRITERIA

The Technical Evaluation Procedures for Bids consist of the following two (2) stages:

- Stage 1 - Bids will be evaluated on all Mandatory Technical (MT) Criteria.
- Stage 2 - Bids meeting all Mandatory Technical (MT) Criteria will be evaluated on the basis of the Point-Rated Technical Criteria;

SPECIFICATIONS

Product offered shall meet or exceed the following specifications:

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

Instructions to Bidders

1. A complete list of the mandatory evaluation criteria are detailed in the Compliance Matrix below.
2. Bids which fail to meet all of the mandatory evaluation criteria will be declared non-responsive.
3. Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they meet each mandatory evaluation criteria. Bidder should demonstrate their capability in a thorough, concise and clear manner.
4. The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation or stating, without any substantiating information, that a bidder is compliant will not be sufficient.
5. Substantiating information may include, but is not limited to, specification sheets, technical brochures, photographs or illustrations. If published supporting technical documentation is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance. All substantiating information should be provided with the bid at solicitation closing date. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to demonstrate that the proposed product(s) meet the requirements of the evaluation criteria.
6. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
7. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present the topics in the order of the evaluation criteria, and include a grid in their proposal, containing the information which demonstrates how the bidder meets each evaluation criteria. Alternatively, and

to avoid any duplication, bidders may also refer to the different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

8. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:

Requirement:	Manufacturer(s) Offered:	Model Number(s) Offered:
Tractor		

Item #	Performance Specification	Status (M) Mandatory (D) Desirable*	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders <u>should</u> cross-reference where this performance specification is indicated in their supporting documents
1	Hemisphere 321+ Dual frequency capable (L1 & L2) multi-GNSS capable receiver (GPS, GLONASS, BeiDou, Galileo & QZSS).	M		
2	Receiver should be capable of an overall performance of better than 2cm & 5cm horizontal and vertical respectively in RTK mode; and 1cm & 2cm horizontal and vertical respectively in long occupation static mode.	M		
3	System design must incorporate self-calibration operation that includes the ability to set accuracy thresholds that can be obtained in a defined period of time even in extreme remote locations within Canada that are void of communication infrastructures.	M		
4	Receivers must be capable of operating as both a high precision base and as an RTK rover.	M		
5	In RTK mode, receiver radio must be capable of operating in the frequency range of 410 to 470 MHz, with selectable channel spacing of 25 to 50 MHz, emitting in selectable power ranges from 0.5 to 1 Watt. Receiver must be capable of operating with the Pacific Crest ADL Vantage 35 Watt	M		

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	system.			
6	Capable of wired and wireless communication (Serial, USB; Wi-Fi, UHF, Cellular, and Bluetooth).	M		
7	Receiver must be capable of both internal data storage as well as onboard expandable memory through SD or micro SD card slots.	M		
8	Capable of operating with both autonomous on board battery power (dual battery system capable of hot swapping) and external 12VDC battery power. Receiver must have over voltage protection built into its circuitry.	M		
9	Receiver must have built in Tilt correction software to compensate for up to a 12° rod holding error during RTK operations.	M		
10	Operating range from -30° C to +45° C; water proof & dust proof; Shock, impact and vibration tested for robust use in all Canadian environments.	M		
11	Mountable to boats, floating platforms / hydroboards, snowmobiles and ATVs using standard 5/8"x11 female mount for threading onto survey tripods and rods.	M		
12	Compatible with Sontek and RDI ADCP systems	M		
13	Compatible with the SatLab SLD-100 Echo sounder for bathymetric mapping purposes.	M		
14	Must include batteries and power cables	M		
15	Must be accompanied by adjustable tripods and survey poles, the latter of which can extend	M		

STAGE 2:

2.1 Point Rated Technical Criteria

Each bid will be rated by assigning a score to the rated requirements, which are identified in the bid solicitation by the word "rated" or by reference to a score. Bidders who fail to submit complete bids with all the information requested by this bid solicitation at bid closing, will be rated accordingly. The rated requirements are as follows:

ID	Bid Deliverable Title	Weighting
1	Selectable Recording Intervals	20
2	Period of Converging	20
3	Accessibility Criteria 1	20
4	Accessibility Criteria 2	20
5	After Purchase Service	20
Total		100

Based on the data provided by the Proponent the proposed survey grade GPS-RTK system will be evaluated by ECCC as follows:

1. Selectable recording intervals (Maximum score – 20 points)

Criteria	Score Point
Recording interval range 1 to 10 Hz	20
	10
	5
	0

2. Period in which system is capable of converging on 10 cm horizontal accuracy when employing self-calibration operations

Criteria	Score Point
< 30 minutes	20
30 - 45 minutes	10
45 minutes to 1 hour	5
>1 hour	0

3. Accessibility criteria I: Simple and intuitive use

Criteria	Score Point
Control buttons are labeled with universal symbols	20
Control buttons are not labeled with universal symbols	10

4. Accessibility criteria II: Minimize physical effort (i.e., the units needs to be portable by hand).
(Maximum score – 20 points)

Criteria	Score Point
Weight < 1.5 kg weight; depth < 20 cm; height < 15 cm	20
>1.5 kg weight, >20 cm depth, > 15 cm height	0

5. After purchase service (Maximum score – 20 points)

Criteria	Score Point
Access to field manuals, software help screens and direct call support from the supplier after purchase.	20
Access to field manuals and software help screens after purchase, but not direct call support	10
Field manuals, software help screens and direct call support not provided	0