



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À :**

Bid Receiving/Réception des soumissions
ATL_Procurement@rcmp-grc.gc.ca

**REQUEST FOR
PROPOSAL**

**DEMANDE DE
PROPOSITION**

Proposal to: Royal Canadian Mounted
Police

We hereby offer to sell to His Majesty the King 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 : Gendarmerie royale du
Canada

Nous offrons par la présente de vendre à Sa Majesté le Roi du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux appendices ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments: - Commentaires :

THIS DOCUMENT DOES NOT CONTAIN
A SECURITY REQUIREMENT.

LE PRÉSENT DOCUMENT NE
COMPORTE PAS UNE EXIGENCE EN
MATIÈRE DE SÉCURITÉ.

Title - Sujet Global Navigation Satellite System (GNSS) Receivers and Accessories		Date January 8, 2024
Solicitation No. – N° de l'invitation M4000-4-3466		
Solicitation Closes – L'invitation prend fin		
At / à :	2 :00 p.m.	Atlantic time
On / le :	February 2, 2024	
Delivery - Livraison See herein - Voir aux présentes	Taxes - Taxes See herein - Voir aux présentes	Duty - Droits See herein - Voir aux présentes
Destination of Goods and Services - Destinations des biens et services See herein - Voir aux présentes		
Instructions See herein - Voir aux présentes		
Address Inquiries to - Adresser toute demande de renseignements à Sandra Bremner Sandra.Bremner@rcmp-grc.gc.ca		
Delivery Required - Livraison exigée See herein - Voir aux présentes	Delivery Offered - Livraison proposée	
Vendor/Firm Name, Address and Representative - Raison sociale, adresse et représentant du fournisseur/de l'entrepreneur :		
Telephone No. - No. de téléphone	Email - Courriel	
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	



IMPORTANT NOTICE TO BIDDERS

BIDS RECEIVED BY EMAIL WILL BE ACCEPTED AS OFFICIAL.

BIDS RECEIVED BY FAX, IN-PERSON OR BY MAIL/COURIER WILL NOT BE ACCEPTED.



TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION

- 1.1. Security Requirement
- 1.2. Statement of Requirement
- 1.3. Debriefings
- 1.4. Recourse Mechanisms

PART 2 - BIDDER INSTRUCTIONS

- 2.1. Standard Instructions, Clauses and Conditions
- 2.2. Submission of Bids
- 2.3. Enquiries - Bid Solicitation
- 2.4. Applicable Laws
- 2.5. Promotion of Direct Deposit Initiative
- 2.6. Volumetric Data

PART 3 - BID PREPARATION INSTRUCTIONS

- 3.1. Bid Preparation Instructions

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

- 4.1. Evaluation Procedures
- 4.2. Basis of Selection

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

- 5.1. Certifications Precedent to Contract Award and Additional Information
- 5.2. Certifications Required with the Bid
 - Attachment 1 to Part 5: Integrity Provisions
 - Attachment 2 to Part 5: Certificate of Independent Bid Determination

PART 6 - RESULTING CONTRACT CLAUSES

- 6.1. Security Requirement
- 6.2. Statement of Requirement
- 6.3. Standard Clauses and Conditions
- 6.4. Term of Contract
- 6.5. Authorities
- 6.6. Payment
- 6.7. Invoicing Instructions
- 6.8. Certifications and Additional Information
- 6.9. Applicable Laws
- 6.10. Priority of Documents
- 6.11. Procurement Ombudsman
- 6.12. Insurance
- 6.13. Electrical Equipment

List of Annexes:

- Annex A Statement of Requirement
- Annex B Basis of Payment
- Annex C Mandatory Technical Evaluation Criteria



PART 1 - GENERAL INFORMATION

NOTE: [Canada Buys](#) is the new official source for Government of Canada tender and award notices. [Buy and Sell](#) remains as a source for information, procurement policy and guidelines.

1.1 Security Requirements

There is no security requirement associated with the requirement.

1.2 Statement of Requirement

The Royal Canadian Mounted Police (RCMP) H Division (Nova Scotia) and F Division (Saskatchewan) Traffic Services has a requirement for the supply and delivery of 18 Global Navigation Satellite System (GNSS) receivers, with accessories, with the option to purchase up to an additional 12 units within a 24-month period following March 31, 2024.

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

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. Recourse Mechanisms

If you have any concerns relating to the procurement process, please refer to the [Recourse Mechanisms](#) page on the [Buyandsell.gc.ca](#) website. Please note that there are strict deadlines for filing complaints with the Canadian International Trade Tribunal (CITT) or the [Office of the Procurement Ombudsman \(OPO\)](#).

<https://buyandsell.gc.ca/for-businesses/selling-to-the-government-of-canada/bid-follow-up/bid-challenge-and-recourse-mechanisms>

<http://opo-boa.gc.ca/plaintesurvol-complaintoverview-eng.html>

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.

Revision to Departmental Name: As this solicitation is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its



Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

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](#) (2023-06-08) 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: 90 days

2.1.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Requirement 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 5 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.2 Submission of Bids

Bids must be submitted only to RCMP Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

NOTE: The RCMP has not been approved for bid submission by Canada Post Corporation (CPC) Connect service.

Bids transmitted by facsimile, in person or by mail/courier to RCMP will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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 Nova Scotia.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Promotion of Direct Deposit Initiative

The following information is not related to the solicitation process:

An initiative within the Government of Canada called the Cheque Standardization Project has been established whereby eventually for all payments, cheque stubs will no longer be printed and, with few exceptions, will be processed via direct deposit. This option is only available when payment is made in Canadian dollars for deposit into a Canadian bank account. In an attempt to be proactive, RCMP Corporate Accounting is promoting the registration of RCMP suppliers for the upcoming change in the payment process.

If you are the successful Bidder on this or any other RCMP requirement, you are encouraged to register with the RCMP for direct deposit. Please contact RCMP Corporate Accounting by email to receive a form entitled *Recipient Electronic Payment Registration Request* along with instructions for completion of the form.

Should you have any questions regarding the Cheque Standardization Project or if you want to register, please contact the following email: corporate_accounting@rcmp-grc.gc.ca

2.6 Volumetric Data

The estimated quantity has been provided to Bidders to assist them in preparing their bids. The inclusion of this data in this bid solicitation does not represent a commitment by Canada that Canada's future usage of the service identified in this bid solicitation will be consistent with this data. It is provided purely for information purposes.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that the Bidder submit its complete **email** bid in separately saved and attached sections as follows:

Section I: Technical Bid (one soft copy in PDF format)



Section II: Financial Bid (one soft copy in PDF format)

Section III: Certifications (one soft copy in PDF format)

Important Note:

For bids transmitted by email, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:

- a. receipt of garbled or incomplete bid;
- b. delay in transmission or receipt of the bid to the Contracting Authority's email inbox (the date & time on the email received by the Contracting Authority is considered the date & time of receipt of the bid submission);
- c. availability or condition of the receiving equipment;
- d. incompatibility between the sending and receiving equipment;
- e. failure of the Bidder to properly identify the bid;
- f. illegibility of the bid; or
- g. security of bid data.

A bid transmitted electronically constitutes the formal bid of the Bidder and must be submitted in accordance with Section 05 of [2003](#) (2023-06-08) Standard Instructions - Goods or Services - Competitive Requirements.

The RCMP has restrictions on incoming e-mail messages. The maximum e-mail message size including all file attachments must not exceed 5MB. Zip files or links to bid documents will not be accepted. Incoming e-mail messages exceeding the maximum file size and/or containing zip file attachments will be blocked from entering the RCMP e-mail system. A bid transmitted by e-mail that gets blocked by the RCMP e-mail system will be considered not received. It is the responsibility of the Bidder to ensure receipt.

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 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. Include all environmental certification(s) relevant to your organization (e.g. ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.)



2. Include all environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (e.g. Forest Stewardship Council (FSC), ENERGYSTAR, etc.)
3. Unless otherwise noted, Bidders are encouraged to submit bids electronically. If hard copies are required, Bidders should:
 - a. 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
 - b. 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 Exchange Rate Fluctuation

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

3.1.2 Prices - Items

Bidders must submit firm prices for all items listed in Annex B.

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



Mandatory technical evaluation criteria are included in Annex C.

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price-Bid

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 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 specified will render the bid non-responsive.

5.1.1 Integrity Provisions

In accordance with the section titled Information to be provided when bidding, contracting, or entering into a real property agreement subject to the [Ineligibility and Suspension Policy](#) (<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:

- Declaration of Convicted Offences - Integrity Declaration Form (as applicable)
- Required Documentation (List of names for integrity verification form)

Please see the [Forms for the Integrity Regime](#) website for further details (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaires-forms-eng.html>).



5.1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" 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.

5.1.3 Additional Certifications Precedent to Contract Award

5.1.3.1 Independent Bid Determination

The attached Certificate of Independent Bid Determination (attached Attachment 2) has been developed by the federal Competition Bureau for use by the Contracting Authority when calling for bids, tenders or quotations. The intention of this documentation is to deter bid-rigging by requiring Bidders to disclose, to the Contracting Authority, all material facts about any communications and arrangements which the Bidder has entered into with competitors regarding the call for tenders.



Attachment 1 to PART 5 INTEGRITY PROVISIONS

(Text copied from the Ineligibility and Suspension Policy http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html with an effective date of 2016-04-04.

- a. List of names: All suppliers, regardless of their status under the policy, must submit the following information when participating in a procurement process or real property transaction:
i. suppliers that are corporate entities, including those bidding as joint ventures, must provide a complete list of the names of all current directors or, for a privately-owned corporation, the names of the owners of the corporation;
ii. suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, must provide a complete list of the names of all owners; or
iii. suppliers that are a partnership do not need to provide a list of names.

If the list of names has not been received in a procurement process or real property transaction by the time the evaluation of bids or offers is completed, or has not been received in a procurement process or real property transaction where no bid/offer will be submitted, the contracting authority will inform the supplier of a time within which to provide the information. Providing the required names is a mandatory requirement for award of a contract or real property agreement. Failure to provide the list of names within the time specified will render a bid or offer non-responsive, or the supplier otherwise disqualified for award of a contract or real property agreement.

- b. During the evaluation of bids or offers, a supplier must, within 10 working days, inform the contracting authority in writing of any changes affecting the list of names submitted further to section 17(a).

Horizontal lines for writing answers to section b.



**Attachment 2 to PART 5
CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid or tender (hereinafter "bid") to:

(Corporate Name of Recipient of this Submission)

for: _____
(Name and Number of Bid and Project)

in response to the call or request (hereinafter "call") for bids made by:

(Name of Tendering Authority)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Corporate Name of Bidder or Tenderer [hereinafter "Bidder"])

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the Bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the Bidder;
4. each person whose signature appears on the accompanying bid has been authorized by the Bidder to determine the terms of, and to sign, the bid, on behalf of the Bidder;
5. for the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the Bidder, whether or not affiliated with the Bidder, who:
 - a. has been requested to submit a bid in response to this call for bids;
 - b. could potentially submit a bid in response to this call for bids, based on their qualifications, abilities or experience;
6. the Bidder discloses that (check one of the following, as applicable):
 - a. the Bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with, any competitor;
 - b. the Bidder has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this call for bids, and the Bidder discloses, in the



attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;

7. in particular, without limiting the generality of paragraphs (6)(a) or (6)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- a. prices;
 - b. methods, factors or formulas used to calculate prices;
 - c. the intention or decision to submit, or not to submit, a bid; or
 - d. the submission of a bid which does not meet the specifications of the call for bids;

except as specifically disclosed pursuant to paragraph (6)(b) above;

8. in addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the products or services to which this call for bids relates, except as specifically authorized by the Tendering Authority or as specifically disclosed pursuant to paragraph (6)(b) above;
9. the terms of the accompanying bid have not been, and will not be, knowingly disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening, or of the awarding of the contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (6)(b) above.

(Printed Name and Signature of Authorized Agent of Bidder)

(Position Title)

(Date)



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 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.

Revision to Departmental Name: As this contract is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

6.3.1 General Conditions

[2010A](#) (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Subsection 09 (Warranty) of [2010A](#), General Conditions – Goods (Medium Complexity), is amended as follows:

Delete: 12 months
Insert: 36 months

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to March 29, 2024.

6.4.2 Delivery Date

All the deliverables must be received on or before March 29, 2024.

6.4.3 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two additional 1-year periods (under the same conditions). The



Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 5 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

6.4.4 Delivery Points

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

6.4.5 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destinations specified in the Contract and Delivered Duty Paid (DDP) Dartmouth, Nova Scotia and Estevan, Saskatchewan Incoterms 2010 for shipments from a commercial Contractor.

6.4.6 Packaging

The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo.

Where applicable, suppliers are encouraged to:

- Minimize packaging
- Include recycled content in packaging;
- Re-use packaging;
- Include a provision for a take-back program for packaging;
- Reduce/eliminate toxics in packaging.

6.4.7 Delivery and Unloading

SACC *Manual* Clause [D0018C](#) (2007-11-30), Delivery and Unloading

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Sandra Bremner
RCMP Procurement and Materiel Management
Telephone: 902-717-5395
E-mail: Sandra.Bremner@rcmp-grc.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 Technical Authority

The Technical Authority for the Contract is: *(to be inserted at contract award)*

Name: _____
 Title: _____
 Telephone: _____
 E-mail: _____

The Technical Authority named above 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.

6.5.2.1 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.5.3 Contractor's Representative *(to be inserted at contract award)*

Name: _____
 Title: _____
 Organization: _____
 Address: _____
 Telephone: _____
 E-mail: _____

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 firm unit prices, 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 Method of Payment - Single Payment

SACC Manual Clause H1000C (2008-05-12), Single Payment

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:

One copy must be forwarded by email to the Technical Authority and to the Contracting Authority 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 _____ (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

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 (2022-12-01), General Conditions - Goods (Medium Complexity),
- c. Annex A, Statement of Requirement;
- d. Annex B, Basis of Payment;
- e. the Contractor's bid dated _____ (*insert date of bid*) .

6.11. Procurement Ombudsman



6.11.1 Dispute Resolution

The Parties agree to make every reasonable effort, in good faith, to settle amicably all disputes or claims relating to the Contract, through negotiations between the Parties' representatives authorized to settle. If the Parties do not reach a settlement within 25 working days after the dispute was initially raised to the other party in writing, either Party may contact the Office of the Procurement Ombudsman (OPO) to request dispute resolution/mediation services. OPO may be contacted by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca. For more information on OPO's services, please see the [Procurement Ombudsman Regulations](#) or visit the [OPO website](#).

6.11.2 Contract Administration

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will review a complaint filed by the complainant respecting administration of this contract if the requirements of Subsection 22.2(1) of the *Department of Public Works and Government Services Act* and Sections 15 and 16 of the *Procurement Ombudsman Regulations* have been met.

To file a complaint, the Office of the Procurement Ombudsman may be contacted by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca.

6.12 Insurance

SACC Manual clause [G1005C](#) (2016-01-28), Insurance – No Specific Requirements

6.13 Electrical Equipment

[B1501C](#) (2018-06-21), Electrical equipment



ANNEX A - STATEMENT OF REQUIREMENT

1. TITLE

Global Navigation Satellite System (GNSS) receivers and accessories

2. BACKGROUND

The Royal Canadian Mounted Police (RCMP) H Division (Nova Scotia) and F Division (Saskatchewan) Traffic Services has a requirement for the supply and delivery of 18 Global Navigation Satellite System (GNSS) receivers, with accessories, with the option to purchase up to an additional 12 units within a 24-month period following the initial contract.

The GNSS receivers are the replacement equipment to evergreen (end of life replacement) for the H Division Traffic Services Collision Reconstruction unit's GNSS receiver fleet inventory. This equipment is used for measuring serious collision scenes and high-profile investigations to create accurate scale diagrams of the incidents. They are used as the primary method of accurately measuring the aforementioned matters in an accurate and highly efficient manner, and are used in almost every investigation a collision reconstructionist responds to, which is approximately 100 times per year. There are no other RCMP investigative units, within the province of Nova Scotia, that have the mandate to accurately measure and process these High profile/High public awareness investigations in an effective, efficient and accurate manner.

The RCMP's Collision Reconstruction Unit provides forensic support to operational units across Nova Scotia to assist in determining the series of events and causal factors related to serious collisions, and provide specialty assistance in other high-profile/serious investigations. To complete this work the RCMP relies on highly accurate measurements obtained at collision/crime scenes, where the scope of accuracy can only be accomplished with the use of various survey and measurement instruments.

All Collision Analysts and Reconstructionists in the province are trained in the use of various measurement tools that includes the use of GNSS receivers in a base/rover Real-Time Kinematic (RTK) configuration. Due to the vast coverage areas as well as varying terrain and weather conditions, most incidents are attended by a single Reconstructionist. This entails that any survey equipment utilized at the scenes also be capable of single person operation with highly efficient data processing both in the field and in the office.

3. ACRONYMS

GNSS	Global Navigation Satellite System
RCMP H Division	RCMP Nova Scotia
RCMP F Division	RCMP Saskatchewan
RTK	Real-Time Kinematic



4. REQUIREMENTS/SPECIFICATIONS:

4.1 Global Navigation Satellite System (GNSS) receivers

Required Quantity: 18

The Contractor must provide the requirement with the following specifications:

Item	General Specifications
4.1.1	Must be able to conduct surveying operations with reliability and accuracy in a Real-Time Kinematic (RTK) setup configuration.
4.1.2	Must be pre-configured into a “Base/Rover” pair for RTK surveying.
4.1.3	Must be fully compatible with a Stonex S900A GNSS Receiver for RTK surveying operations. Compatibility is defined as using the same protocol and radio frequency as the Stonex S900A.
4.1.4	Must be easily operable by only one person and all operations be performed with a handheld controller (data collector).
4.1.5	The weight of each GNSS receiver must not exceed 1.5 kg with a battery, radio and antenna installed.
4.1.6	Must have single button operation for power on/off, reset, and memory initialization.
4.1.7	Must be equipped with tilt compensation which is immune to magnetic interference (IMU based).
4.1.8	Must be fully compatible with Leica Geosystems Evidence Recorder 11 (EVR) field surveying software to enable RTK surveying and support automatic tilt compensated measurements.
4.1.9	Each receiver must be capable and configurable to be either setup as a base station or a rover.
Item	Performance Specifications
4.1.10	Must have an internal GNSS board with integrated multipath signal suppression.
4.1.11	Minimum time for signal reacquisition must be equal to or less than one second.
4.1.12	Satellite availability from initialization must be 99 % or better at any time in varying atmospheric/environmental conditions.
4.1.13	Average time to acquire satellite signals upon initialization must be less than 20 seconds after the start-up procedure is complete.
4.1.14	Must have no less than 500 channels configured to receive signals from multiple satellite constellations.



4.1.15	<p>Must include the minimum following constellations and capable of tracking the following channels simultaneously:</p> <ul style="list-style-type: none"> ● GPS: L1 C/A, L1C, L1P, L2C, L2P, L5 ● GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3 ● GALILEO: E1, E5a, E5b, Alt-BOC, E6 ● BEIDOU: B1, B2, B3 ● QZSS: L1, L1C, L2C, L5
4.1.16	Must have a minimum RTK accuracy of 8 mm + 1 ppm horizontally or better.
4.1.17	Must have a minimum RTK accuracy of 12 mm + 1 ppm vertically or better.
4.1.18	Tilt compensated measurements must have a minimum horizontal accuracy of 20 mm up to 30 degrees tilt in any direction.
4.1.19	Tilt compensated measurements must have a minimum vertical accuracy of 50 mm up to 60 degrees tilt in any direction.
4.1.20	Receivers must have a positioning rate of 10 Hz or faster.
Item	Communication Specifications
4.1.21	Receivers must connect to the base and/or rover as well as the data collector wirelessly for RTK surveying operations.
4.1.22	Receivers must be equipped with an integrated minimum 1-Watt Ultra-High Frequency (UHF) transceiver (radio) modem within the 410 – 470 MHz and 902.4 MHz – 928 MHz band ranges.
4.1.23	The base/rover operation range with UHF radio must maintain performance up to 4 km away from the base station.
4.1.24	Must be equipped with an integrated Bluetooth radio for wireless communication with the data collector.
4.1.25	Must have an internal modem capable of receiving GSM, UTMS, LTE TDD and LTE FDD cellular signals.
4.1.26	Each receiver must be able to accept a SIM card.
4.1.27	Each receiver must be capable of connecting to an external UHF radio.
4.1.28	Data transfer and firmware updates must be capable of being accomplished by a USB and/or serial type connection.
4.1.29	<p>Must be able to send and receive the following data correction protocols:</p> <ul style="list-style-type: none"> ● CMR ● CMR+ ● RTCM 2.3, 3.0, and 3.2 MSM



Item	Software and Data Storage Specifications
4.1.30	System must be able to receive firmware updates at no additional cost.
4.1.31	Survey data collected from receivers must be recognized and imported into Faro Zone 2D and Faro Zone 3D Expert software.
4.1.32	Must be able to store RTK points in data collector with a point ID and description.
4.1.33	Must be capable of logging raw data within the receiver either internally or on a removable SD card.
4.1.34	Storage capacity of raw files must be a minimum of 2 GB (must come with storage card if required).
Item	Power Specifications
4.1.35	Receiver must have rechargeable exchangeable/replaceable lithium batteries.
4.1.36	Batteries must be hot-swappable.
4.1.37	Receiver must provide a low-battery warning.
4.1.38	Must have a minimum operating time of 12 hours under normal conditions regardless of configuration to base or rover.
4.1.39	Must be able to receive an external power supply in the 9 – 28 Volt – direct current (DC) range.
4.1.40	Receiver must have integrated over-voltage protection.
4.1.41	External power supply must be provided by a 5-pin LEMO style connection.
Item	Standards and Testing Specifications
4.1.42	The System must sustain operations in a temperature range from negative 30 degrees Celsius to positive 65 degrees Celsius.
4.1.43	Must meet or exceed MIL-STD-810H for environmental performance.
4.1.44	Must have a minimum IP67 rating for weather/dust/debris resistance.
4.1.45	Must maintain performance after enduring 2-meter drop onto a hard surface.



4.2 Accessories

The Contractor must provide the following accessories for requirement 4.1:

Item	Minimum Specifications	Required Quantity
4.2.1	Each receiver must come with a detachable UHF antenna.	18
4.2.2	Must provide two additional batteries per base/rover pair for the receivers.	18
4.2.3	Must provide hard cover protective case(s) to house/transport receiver and accessories other than a range pole.	18
4.2.4	Must provide a battery charger for an alternating current (AC) power system with a North American plug connection for each receiver.	18
4.2.5	Each receiver must have accompanying communication and power cables to enable its operation.	18
4.2.6	Must provide 12-inch long extension poles, tribrachs and connecting adapter for receivers to be configured as base stations.	9
4.2.7	Tribrachs must have a visible optical plummet and be constructed of metal.	9
4.2.8	Range poles: <ul style="list-style-type: none"> • Range poles to connect to receivers configured as a rover. • Range pole must extend a minimum height of 2 meters. • Range pole must be primarily constructed of carbon fiber. • Range pole must be either in the twist, snap-lock, or knob-lock configurations. • Receivers must be able to connect and disconnect from the range pole with no additional accessories if they are not provided. • Range pole must be equipped with an 8-minute circular leveling bubble. 	9

4.3 Support and Services Requirements

Item	Minimum Specifications
4.3.1	Any required warranty services must include as a minimum the provision of all parts and labour, transportation costs, travel, living and any other related charges incurred.
4.3.2	All parts supplied by the Contractor in performing any warranty services must be new. The Contractor guarantees that parts and technical materials required for warranty services of the proposed Default System(s), System Upgrades or System Components will be made available for the duration of the warranty period.
4.3.3	Software items (if applicable) must be the latest version released, unless otherwise specified, and must be provided with the normal Manufacturer's warranty. The Contractor must specify the duration and level of coverage of the Software Manufacturer's standard warranty.
4.3.4	Any technical support must be free of charge. Support will be available Monday-Friday 08:00 - 17:00 Eastern Standard Time.



4.3.5	Any firmware and software updates must be free of charge for the life of the GNSS receiver.
4.3.6	The warranty response time must not exceed 72 hours from the time the Contractor has been notified by the RCMP, regardless of the location from which the warranty services are provided. Response time measurements do not include Saturdays, Sundays or statutory holidays. The Contractor calculates warranty response time from the time the Contractor has been notified by the RCMP to the time of arrival on site or goods are delivered for repair.
4.3.9	Upon receipt of notification from the RCMP of the requirement for warranty services, the Contractor must arrange for pick up in consultation with the RCMP. This includes safe packaging, shipping and handling, at the RCMP's site within Canada for delivery to a Contractor-authorized service/repair depot. Following the repair, the Contractor must arrange for delivery, which includes safe packaging, shipping and handling, to the RCMP-designated location within Canada.
4.3.10	The Contractor must commence the repair of the defective default system(s), system upgrades or system components within two working days after arrival at the authorized service/repair depot;
4.3.11	If, after arrival at the authorized service/repair depot, it is determined that the Contractor cannot repair the defective default system(s), system upgrades or system components within two working days, the Contractor must provide a loaner/substitute unit, similarly equipped as the default system(s), system upgrades or system components being repaired, at no charge, within 24 hours of such determination by the Contractor's personnel (but not later than 48 hours after initial pick-up of the equipment being serviced, excluding Saturdays, Sundays and statutory holidays). The RCMP must keep the loaner unit(s) until the original defective unit(s) is repaired and returned in working condition to the RCMP;
4.3.12	Maintenance services must be offered for the duration of this contract or any subsequent contract option extensions.
4.3.13	The Contractor must inform the RCMP of any requirement to register for international warranty coverage should the RCMP travel abroad with equipment purchased.
4.3.14	The Contractor must have at least one Manufacturer Certified Canadian Service Centre/Dealer within Canada.
4.3.15	The Contractor must provide a detailed address and contact person for the Canadian Service Centre(s).
4.3.16	Must include 3-year warranty for each GNSS receiver commencing on the date of delivery. The warranty must cover all hardware and accessories.
4.3.17	The Contractor must be an approved supplier and authorized distributor of the original equipment by the manufacturer.
4.3.18	All system documentation must be available electronically.



4.4 Optional

Item	Extended Warranty and Training
4.4.1	Must provide Optional Extended Warranty for two 12-month periods for all hardware to be used at Canada's discretion.
4.4.2	Must provide virtual training for the system users and as required by the RCMP. Any training, if required, will be established with the RCMP upon or immediately after the delivery of goods.

5. DELIVERABLES AND DELIVERY DATES

5.1. Firm Requirement

Item	Requirement Reference	Description of the Deliverables	Quantity	Date of Delivery
5.1.1	4.1	GNSS receivers	18	On or before March 31, 2024
5.1.2	4.2	Accessories	As specified in Section 4.2	On or before March 31, 2024
5.1.3	4.3	Support and Services	18	On or before March 31, 2024
5.1.4	4.4	Optional Extended Warranty and Training	18	As required

5.2. Optional Requirement

Item	Requirement Reference	Description of the Deliverables	Quantity	Date of Delivery
5.2.1	4.1	GNSS receivers	12	Within 8 weeks following receipt of contract amendment
5.2.2	4.2	Accessories	As specified in Section 4.2	Within 8 weeks following receipt of contract amendment
5.2.3	4.3	Support and Services	12	Within 8 weeks following receipt of contract amendment
5.2.4	4.4	Optional Extended Warranty and Training	12	As required

6. LANGUAGE OF WORK

The language of all work and deliverables must be in English



7. DELIVERY LOCATIONS

Deliverables 5.1.1 to 5.1.3 must be delivered to:

7.1 Quantity: 10

RCMP H Division Traffic Services
Collision Reconstruction Program
80 Garland Avenue
Dartmouth, NS B3B 0J8

7.2 Quantity: 8

RCMP F Division Traffic Services
Collision Reconstruction Unit
1320 4th Street
Estevan, SK S4A 2A6

Deliverables 5.2.1 to 5.2.3 must be delivered to:

- 7.3** Any RCMP location in Canada that is not located in a Comprehensive Land Claims Agreement (CLCA) area, to be identified at the issuance of contract amendment.

8. TRAVEL

The Contractor is not required to travel under this contract.



ANNEX B - BASIS OF PAYMENT

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified below for a cost of \$ _____ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

All prices are firm, all-inclusive unit prices and in Canadian dollars including Canadian customs duties, excise taxes, supply, delivery and training charges and material costs, which are to be Delivered Duty Paid (DDP) to destination as indicated herein (Incoterms 2010).

FOR EVALUATION PURPOSES ONLY

The Bidder must insert their firm all-inclusive unit prices in column B below and complete the extended price in Column C. Failure to complete the table in full will result in the bid being deemed non-responsive and given no further consideration.

The estimated number of units is provided for evaluation purposes only and does not constitute a guarantee or commitment on behalf of Canada.

FINANCIAL EVALUATION CALCULATION: (C1) + (C2) + (C3) (taxes extra)

Table 1 - Firm Requirement - Fixed Pricing				
Delivery required on or before March 31, 2024				
Item #	Item Description	Quantity (A)	Unit Price (CAD) (B)	Extended Price (A) x (B) = (C1)
1	Global Navigation Satellite System (GNSS) Receiver		\$	\$
2	Base Accessory Kit		\$	\$
3	Additional batteries per receiver		\$	\$
4	Hard cover protective case		\$	\$
5	Battery charger		\$	\$
6	Communication and power cables		\$	\$
7	Range pole		\$	\$
8	Delivery		\$	\$
9	Virtual Training		\$	\$
Sub-Total Table 1 (C1)				\$



Table 2 - Optional Warranty - Fixed Pricing				
Item #	Item Description	Quantity (A)	Unit Price (CAD) (B)	Extended Price (A) x (B) = (C2)
9	Optional extended warranty for two 12-month periods for all hardware		\$	\$
Sub-Total Table 2 (C2)				\$

Table 3 - Optional Quantities - Fixed Pricing				
If exercised within a 24-month period following March 31, 2024				
Item #	Item Description	Quantity (A)	Unit Price (CAD) (B)	Extended Price (A) x (B) = (C3)
10	Global Navigation Satellite System (GNSS) Receiver		\$	\$
11	Base Accessory Kit		\$	\$
12	Additional batteries per receiver		\$	\$
13	Hard cover protective case		\$	\$
14	Battery charger		\$	\$
15	Communication and power cables		\$	\$
16	Range pole		\$	\$
17	Delivery		\$	\$
18	Virtual Training		\$	\$
19	Optional extended warranty for two 12-month periods for all hardware.		\$	\$
Sub-Total Table 3 (C3)				\$

TOTAL EVALUATED PRICE (excluding applicable taxes) (C1 + C2 + C3)	\$
--	-----------



ANNEX C - MANDATORY TECHNICAL EVALUATION CRITERIA

In their proposals, bidders must demonstrate in writing they meet the following mandatory criteria.

Bidders must provide descriptive literature such as specification sheets, brochures, schematics, manufacturer-issued documents and any other documentation that demonstrates their proposed product meets the specifications identified in Annex A – Statement of Requirement. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

Links to web pages are not accepted and will be assessed a “NOT MET” rating.

Bidders must indicate the page number in their descriptive literature where each mandatory technical requirement is detailed. When the descriptive literature does not detail the requirement, a written narrative demonstrating compliance will be accepted.

#	CRITERIA	SUBSTANTIATION Bidder to indicate specific page number in proposal where this is demonstrated [Completed by Bidder]	ASSESSMENT MET / NOT MET [Completed by RCMP Evaluator]
GENERAL SPECIFICATIONS			
M1	Must be able to conduct surveying operations with reliability and accuracy in a Real-Time Kinematic (RTK) setup configuration.		
M2	Must be pre-configured into a “Base/Rover” pair for RTK surveying.		
M3	Must be fully compatible with a Stonex S900A GNSS Receiver for RTK surveying operations. Compatibility is defined as using the same protocol and radio frequency as the Stonex S900A.		
M4	Must be easily operable by only one person and all operations be performed with a handheld controller (data collector).		
M5	The weight of each GNSS receiver must not exceed 1.5 kg with a battery, radio and antenna installed.		
M6	Must have single button operation for power on/off, reset, and memory initialization.		
M7	Must be equipped with tilt compensation which is immune to magnetic interference (IMU based).		
M8	Must be fully compatible with Leica Geosystems Evidence Recorder 11 (EVR) field surveying software to enable RTK surveying and support automatic tilt compensated measurements.		
M9	Each receiver must be capable and configurable to be either setup as a base station or a rover.		



PERFORMANCE SPECIFICATIONS			
M10	Must have an internal GNSS board with integrated multipath signal suppression.		
M11	Minimum time for signal reacquisition must be equal to or less than one second.		
M12	Satellite availability from initialization must be 99 % or better at any time in varying atmospheric/environmental conditions.		
M13	Average time to acquire satellite signals upon initialization must be less than 20 seconds after the start-up procedure is complete.		
M14	Must have no less than 500 channels configured to receive signals from multiple satellite constellations.		
M15	Must include the minimum following constellations and capable of tracking the following channels simultaneously: <ul style="list-style-type: none"> • GPS: L1 C/A, L1C, L1P, L2C, L2P, L5 • GLONASS: L1 C/A, L1P, L2 C/A, L2P, L3 • GALILEO: E1, E5a, E5b, Alt-BOC, E6 • BEIDOU: B1, B2, B3 • QZSS: L1, L1C, L2C, L5 		
M16	Must have a minimum RTK accuracy of 8 mm + 1 ppm horizontally or better.		
M17	Must have a minimum RTK accuracy of 12 mm + 1 ppm vertically or better.		
M18	Tilt compensated measurements must have a minimum horizontal accuracy of 20 mm up to 30 degrees tilt in any direction.		
M19	Tilt compensated measurements must have a minimum vertical accuracy of 50 mm up to 60 degrees tilt in any direction.		
M20	Receivers must have a positioning rate of 10 Hz or faster.		
COMMUNICATION SPECIFICATIONS			
M21	Receivers must connect to the base and/or rover as well as the data collector wirelessly for RTK surveying operations.		
M22	Receivers must be equipped with an integrated minimum 1-Watt Ultra-High Frequency (UHF) transceiver (radio) modem within the 410 – 470 MHz and 902.4 MHz – 928 MHz band ranges.		
M23	The base/rover operation range with UHF radio must maintain performance up to 4 km away from the base station.		
M24	Must be equipped with an integrated Bluetooth radio for wireless communication with the data collector.		
M25	Must have an internal modem capable of receiving GSM, UTMS, LTE TDD and LTE FDD cellular signals.		
M26	Each receiver must be able to accept a SIM card.		
M27	Each receiver must be capable of connecting to an external UHF radio.		



M28	Data transfer and firmware updates must be capable of being accomplished by a USB and/or serial type connection.		
M29	Must be able to send and receive the following data correction protocols: <ul style="list-style-type: none"> • CMR • CMR+ • RTCM 2.3, 3.0, and 3.2 MSM 		
M30	System must be able to receive firmware updates at no additional cost.		
M31	Survey data collected from receivers must be recognized and imported into Faro Zone 2D and Faro Zone 3D Expert software.		
M32	Must be able to store RTK points in data collector with a point ID and description.		
M33	Must be capable of logging raw data within the receiver either internally or on a removable SD card.		
M33	Storage capacity of raw files must be a minimum of 2 GB (must come with storage card if required).		
POWER SPECIFICATIONS			
M34	Receiver must have rechargeable exchangeable/replaceable lithium batteries.		
M35	Batteries must be hot-swappable.		
M36	Receiver must provide a low-battery warning.		
M37	Must have a minimum operating time of 12 hours under normal conditions regardless of configuration to base or rover.		
M38	Must be able to receive an external power supply in the 9 – 28 Volt – direct current (DC) range.		
M39	Receiver must have integrated over-voltage protection.		
M40	External power supply must be provided by a 5-pin LEMO style connection.		
STANDARDS AND TESTING SPECIFICATIONS			
M41	The System must sustain operations in a temperature range from negative 30 degrees Celsius to positive 65 degrees Celsius.		
M42	Must meet or exceed MIL-STD-810H for environmental performance.		
M43	Must have a minimum IP67 rating for weather/dust/debris resistance.		
M44	Must maintain performance after enduring 2-meter drop onto a hard surface.		
ACCESSORIES			



M45	Each receiver must come with a detachable UHF antenna.		
M46	Must provide two additional batteries per base/rover pair for the receivers.		
M47	Must provide hard cover protective case(s) to house/transport receiver and accessories other than a range pole.		
M48	Must provide a battery charger for an alternating current (AC) power system with a North American plug connection for each receiver.		
M49	Each receiver must have accompanying communication and power cables to enable its operation.		
M50	Must provide 12-inch long extension poles, tribrachs and connecting adapter for receivers to be configured as base stations.		
M51	Tribrachs must have a visible optical plummet and be constructed of metal.		
M52	<p>Range poles:</p> <ul style="list-style-type: none">• Range poles to connect to receivers configured as a rover.• Range pole must extend a minimum height of 2 meters.• Range pole must be primarily constructed of carbon fiber.• Range pole must be either in the twist, snap-lock, or knob-lock configurations.• Receivers must be able to connect and disconnect from the range pole with no additional accessories if they are not provided. <p>Range pole must be equipped with an 8-minute circular leveling bubble.</p>		