



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Bid Fax: (604) 775-7526

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Pacific
Region

219 - 800 Burrard Street

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Title - Sujet UHF PerformanceAntenna various eqmt	
Solicitation No. - N° de l'invitation 23267-190645/A	Date 2019-01-14
Client Reference No. - N° de référence du client 23267-190645	
GETS Reference No. - N° de référence de SEAG PW-\$VAN-532-8527	
File No. - N° de dossier VAN-8-41226 (532)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-02-25	Time Zone Fuseau horaire Pacific Standard Time PST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Takasaki, Alan H.	Buyer Id - Id de l'acheteur van532
Telephone No. - N° de téléphone (604) 671-1831 ()	FAX No. - N° de FAX (604) 775-7526
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATURAL RESOURCES STE 1501 (23267) 1138 MELVILLE ST VANCOUVER British Columbia V6E 4S3 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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Solicitation No. - N° de l'invitation
23267-190645/A
Client Ref. No. - N° de réf. du client
23267-190645

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

Buyer ID - Id de l'acheteur
VAN532
CCC No./N° CCC - FMS No./N° VME

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PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

"The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA)."

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](#) (2018-05-22) 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: 180 days

2.1.1 Equivalent products

1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:

- a. designates the brand name, model and/or part number of the substitute product;
 - b. states that the substitute product is fully interchangeable with the item specified;
 - c. provides complete specifications and descriptive literature for each substitute product;
 - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
 - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
2. Products offered as equivalent in form, fit, function and quality will not be considered if:
 - a. the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
 - b. the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

2.2 Submission of Bids

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

Bid Receiving
Public Works and Government Services Canada
800 Burrard Street, Room 219
Vancouver, BC V6Z 0B9

TPSGC.RPReceptiondessoumissions-PRBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca -

Bids/Offer will be not be accepted if emailed directly to this email address. This email is to initiate an ePost Connect conversation, as detailed in the Standard Instructions (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/23#transmission-by-facsimile>)

Bid Facsimile Number: (604)775-7526

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 14 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 British Columbia.

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

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

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

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)
Section II: Financial Bid (1 hard copies)
Section III: Certifications (1 hard copies)

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy

provided through epost Connect service will have priority over the wording of the other copies.

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

Canada requests that bidders follow the format instructions described below in the preparation of 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.

Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

The technical bid consists of the following:

i. **Bid Submission Form (Form A):**

Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.

ii. Substantiation of Technical Compliance –

a. Mandatory Criteria (Form B):

Bidders that propose an “equivalent” product(s), clause 2.1.1 Equivalent Products will apply.

The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in Form B. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

Bidders:

- 1) Must designate the brand name, model and/or part number of the proposed products;
- 2) Must provide Technical or descriptive literature to substantiate that the proposed product's meets the mandatory criteria that are specified in the bid solicitation (Form B); and
- 3) If Technical and descriptive literature are not available to substantiate a Mandatory Criteria, the bidder must provide an explanation or demonstrate how their proposed solution meets the mandatory criterion.

Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Bidder's Proposal" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

See further instructions in FORM B.

Section II: Financial Bid

- i. Bidders must submit their financial bid in Canadian funds, in accordance with the Basis of Payment in Annex "B".
- ii. Bidder's may submit additional pricing for Table B.3 and B.4 – Optional Goods and/or Services and the period of time the prices are valid. Canada is requesting a period of 12 months from contract award date. Whether or not bidders provide pricing, it will not affect

the evaluation of the bids. If pricing is offered clause **6.4.3 Optional Goods and/or Services** will apply to the contract.

- iii. **Blank Prices:** Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

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.

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.

4.1.2 Technical Evaluation

4.1.2.1 Mandatory Technical Criteria

Each bid will be reviewed for compliance with the mandatory requirements of the bid solicitation. Any elements of the bid solicitation that are identified specifically with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

4.1.3 Financial Evaluation

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

4.2 Basis of Selection

4.2.1 *SACC Manual* Clause A0069T (2007-05-25) Basis of Selection

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.

5.2 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 procurement agreement of 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.

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 supply and deliver Leica GNSS and Total Station kits or "equivalent" in accordance with the Requirement at Annex "A" and the Contractor's technical bid entitled _____, dated _____.

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](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

[4003](#) (2010-08-16), Supplemental General Conditions - Licensed Software, apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

6.4.1.1 Initial Deliverables

All the deliverables must be received on or before 22 mars, 2019

6.4.1.2 Optional Deliverables (Removed if not applicable)

All deliverables must be received within ____ days on receipt of order.

6.4.2 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP) (Surveyor General Branch - Natural Resources Canada 1501, 1138 Melville Street, Vancouver, BC, V6E 4S3), Incoterms 2000 for shipments from a commercial contractor.

6.4.3 Optional Goods and/or Services (Remove if not applicable)

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex B of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within ____ months after contract award by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Al Takasaki
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: Room 219 - 800 Burrard Street,
Vancouver, B.C. V6Z 0B9

Telephone: 604-671-1831
E-mail address: Al.Takasaki@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.

6.5.2 Project Authority

The Project Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____ Facsimile: _____

E-mail address: _____

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 - Firm Unit Prices

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. 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

Competitive Award: The Contractor acknowledges that the Contract has been awarded as a result of a competitive process. No additional charges will be allowed to compensate for errors, oversights, misconceptions or underestimates made by the Contractor when bidding for the Contract.

6.6.2 Limitation of Price

SACC Manual clause C6000C (2017-08-17) Limitation of Price

6.6.3 Method of Payment

SACC Clause H1000C (2008-05-12) Single payment

6.6.4 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
 - c. One (1) copy must be forwarded to the consignee.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- a. the Articles of Agreement;
- b. Supplemental General Conditions 4003 (2010-08-16) - Licensed Software

- c. the general conditions 2010A (2018-06-21), - Goods (Medium Complexity);
- d. Annex A, Statement of Requirement;
- e. Annex B, Basis of Payment;
- f. the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s)*)

6.11 Electrical Equipment

All electrical equipment supplied under the Contract must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

6.12 Intellectual Property Infringement and Royalties

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to Department of Justice Act, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
3. The Contractor has no obligation regarding claims that were only made because:
 - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
 - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
 - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
 - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its

own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.

4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
 - a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
 - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
 - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

6.13 Insurance

SACC Manual clause [G1005C](#) (2008-05-17) Insurance

6.14 Excess Goods

SACC Manual Clause B7500C (2006-06-16) Excess Goods

ANNEX "A"

STATEMENT OF REQUIREMENT

A. Introduction:

As part of Budget 2018 Indigenous Services Canada (ISC) has obtained funding for the expansion of the First Nations Land Management (FNLM) regime. In addition to the expansion of the FNLM regime, Budget 2018 also provided funding to undertake survey capacity development to FNLM First Nations. The Surveyor General Branch (SGB) has been task with developing a Survey Capacity Development Program (the "Program") that will target 24 First Nation communities over 5 years and will provide up to 12 weeks of in-community training to each First Nation community.

In order to prepare for the additional fieldwork requirements under the Program, SGB undertook an audit of existing field survey equipment held by each regional office. The purpose was to provide baseline data regarding the ability of regional offices to take on the additional workload required under the Program with current equipment levels and to provide an inventory of existing equipment to ensure compatibility of any new equipment purchased.

Following the audit, it was determined that some SGB regional offices have fully outfitted field crews, including GNSS receivers and total stations. This equipment will be allocated to the Program wherever possible; bearing in mind this equipment is also used for other client work and may not always be available for the Program. At its peak, the Program will have 14 communities participating requiring 48 weeks of in-community filed training. To ensure sufficient field training equipment is available to not conflict with the scheduling of other regional office field operations. It was determined that 2 GNSS kits and 3 Total Station kits would be purchased and staged in regional offices of potential high activity under the Program.

To ensure 100% compatibility with our existing inventory of receivers, controllers, data storage media, file format, batteries and processing of raw data with our existing equipment found at the regional offices, SGB recommends that the department purchase Leica GNSS equipment and Total Stations.

Supplier must be an equipment manufacturer or an authorized reseller and provide local technical service to the Vancouver, Edmonton and Toronto areas as verified by Surveyor General Branch of Natural Resources Canada.

All GNSS and Total Station equipment must be delivered to the Vancouver SGB Regional Office no later than March 22, 2019 in order to permit testing and calibration prior to commencement of in-community training if the First nations scheduled for April 2019.

For details on the mandatory specifications for the hardware, firmware and software see Annex A, Global Navigation Satellite System Overall Specifications - Mandatory Requirements

A.1 GLOBAL NAVIGATION SATELLITE SYSTEM OVERALL SPECIFICATIONS - MANDATORY REQUIREMENTS

1. The GNSS unit must:

- a. consist of a 120-channel Real-Time Kinematic (RTK) GNSS receiver, an integrated multi-frequency geodetic antenna and be compatible with the existing Leica System500, Leica GS10 and Leica GC15 RTK GPS receivers as well as with existing Leica CS20 and Leica CS15 handheld controllers, power supply and all associated hardware, associated equipment (excluding computer, tripod, tribrach, carriers), required to carry out Real-Time Kinematic surveys with On-The-Fly ambiguity resolution, as well as post-processed multi-frequency GNSS geodetic control surveys in static and rapid/fast static modes, and post processed multi-frequency GNSS surveys in kinematic modes that are currently in Surveyor General Branch's inventory;
- b. operate and be independently controlled as a RTK base unit, a RTK roving unit with on-the-fly ambiguity resolution, and a post-processed static/rapid, static/kinematic unit;
- c. operate in a temperature range of -40 C to +50 C, according to the manufacturer's published specifications;
- d. be completely environmentally secure for normal field use, a minimum IP68 specification environmental rating (e.g. rain, condensation, dust and temperature protection);
- e. have a combined weight of less than 3 kg when set up and operating as a RTK ROVER UNIT, including all required rover components;
- f. operate as a RTK rover that is contained in an "all-on-the-pole" cable-free configuration;
- g. be equipped with a durable, compact and light weight-hard cases(s) that can hold a complete unit and all associated equipment;
- h. have a complete user manuals in digital format for all system components and functions;
- i. have integrated Bluetooth 2.0 Class 2 communications, or better;
- j. have a built-in system battery checks that indicate the amount of remaining battery life and/or alert the operator that power is low;
- k. have a field upgradable system firmware. The unit's software must be stored in on-board memory or within a removable SD or micro SD card so that updates or upgrades to the system may be performed by the user;
- l. be in current production with parts and service available for a minimum of 5 years;
- m. include a full parts and labour warranty for 1 year. The Contractor's must include a return to depot option located in Canada if the equipment cannot be repaired through the advice from the Service Desk;
- n. include firmware updates for one year;

A.2 RECEIVER - MANDATORY REQUIREMENTS

2. The receiver must:

- a. receive satellite signals, as a minimum GPS L1, L2, L2C, L5 and GLONASS L1, L2 channels and upgradable to Galileo and BeiDou satellite signals by way of firmware upgrade.

-
- b. be able to measure full cycle carrier phase, and C/A code;
 - c. be Bluetooth enabled to communicate with a Leica CS15 or CS20 controller running SmartWorx or Leica Captivate firmware.
 - d. be able to store data within the receiver on a removable SD or micro SD card and have an option to store the raw data within a Leica CS15 or CS20 controller. Data storage must be both Leica GNSS raw data and RINEX data.
 - e. be able to log static data on a 1 GB (or more) industrial high speed micro SD card without the need of the hand controller.
 - f. be compatible with existing plug-in style Leica carriers and height hooks,
 - g. operate at 20 Hz with no degrading of accuracy.
 - h. have a range of 50 km under favourable conditions with better than 99.99% reliability when using cellular modems.
 - i. have an internal UHF rover radio which must be fully compatible with existing 35 watt Pacific Crest base radio utilizing "Leica" RTK messages (Leica, Leica 4G and RTSM) with GMSK type modulation type in the frequency range of 403-470 MHZ;
 - j. be able to continuously tracking all observables on dedicated L1, L2, L2C and L5 channels;
 - k. provide a static survey baseline horizontal accuracy of 3mm + 0.1ppm (rms), and a vertical accuracy of 3.5mm + 0.4ppm (rms) or better (following industry standard static surveying procedures and utilizing all available signals from 5 satellites);
 - l. provide a RTK and kinematic survey baseline horizontal accuracy of 8mm + 1ppm (rms) and a vertical accuracy of 15mm + 1ppm (rms) or better (following industry standard RTK kinematic surveying procedures and utilizing all available signals from 5 satellites);
 - m. be able to perform real-time ambiguity resolution on-the-fly up to 10 km from a base receiver and provide the accuracies as stated in 2.f.;
 - n. NOT lose initialization with a brief loss of the radio link during RTK surveys;
 - o. NOT require the operator to enter a reference position in order to lock on the satellite signals;
 - p. successfully lock on all available satellites in less than 60 seconds from "power on";
 - q. have user-selectable phase measurement data recording intervals ranging from 1 second to 60 seconds;
 - r. have user-selectable satellite elevation cut-off angle.
 - s. have a multi-frequency geodetic antenna designed for both static and RTK surveys;
 - t. be mount-able in a standard optical plumbing tribrach with adaptor;
 - u. include a rugged device designed for measuring the antenna height to an accuracy of 1mm when the antenna is mounted on a tripod;
 - v. be mount-able on a range pole utilizing a quick release mechanism;

-
- w. have an internal ground plane.

A.3 CONTROLLER - MANDATORY REQUIREMENTS

3. The controller must:
- a. be able to withstand a 2m drop to a hard surface.
 - b. include lithium ion batteries that provide a 7 hour typical operation time;
 - c. be able to communicate with and configure the GNSS receivers and run Leica Viva software.
 - d. be Bluetooth enabled to communicate with a Leica GNSS equipment.
 - e. be able to store data within a removable SD or micro SD card and have an option to store the raw data within the controller. Data storage must be both Leica GNSS raw data and RINEX data.

A.4 TOTAL STATION - MANDATORY REQUIREMENTS

4. The Total Station must:
- a. be a non-robotic total station with an accuracy of 3 seconds or better;
 - b. be able to perform reflector-less measurements;
 - c. have an integrated laser plummet;
 - d. have an integrated Bluetooth Class 1 communications, or better;
 - e. operate in a temperature range of -20 C to +50 C according to the manufacturer's published specifications;
 - f. be equipped with a durable, compact and light weight-hard cases(s) which can hold a complete unit and all associated equipment;
 - g. include complete user manuals in digital format for all system components and functions;
 - h. have built-in system battery checks that indicate the amount of remaining battery life and/or alert the operator that power is low;
 - i. have field upgradable system firmware. The unit's software must be stored in on-board memory or within a removable SD or micro SD card so that updates or upgrades to the system may be performed by the user;
 - j. be compatible with the Leica CS20 and the Leica CS15 controllers, that are currently in the Surveyor General Branch's inventory;
 - k. be in current production with parts and service available for a minimum of 5 years;
 - l. have a full parts and labour warranty for 1 year. include a full parts and labour warranty for 1 year. The Contractor's must include a return to depot option located in Canada if the equipment cannot be repaired through the advice from the Service Desk.
 - m. include firmware updates for one year;

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A.5 MANUFACTURER OR MANUFACTURER AUTHORIZED:

The Contractor must be the manufacturer or a manufacturer authorized reseller and authorized local technical service provider to the Vancouver, Edmonton and Toronto areas, of the Leica GNSS and Total Station kits, as verified by Surveyor General Branch of Natural Resources Canada.

ANNEX B Basis of Payment

All prices must be in Canadian Funds, Delivered Duty Paid (DDP) ((Surveyor General Branch - Natural Resources Canada 1501, 1138 Melville Street, Vancouver, BC, V6E 4S3) Incoterms 2000, inclusive of all delivery costs, customs and duty charges, and applicable sales tax are extra.

Table B.1 Initial Deliverables (Total Station)

Item #	Description	Qty	U of I	Unit Price	Extended Total
1	TS06 Plus Total Station, 3" with R500 Reflector-less (Power)	3	EA	\$	\$
2	Leica GDF321 PRO tribrach without optical plummet	3	EA	\$	\$
3	GKL311 Single Plate Charger for Lilon Batteries -AC+ Cig	3	EA	\$	\$
4	GEB221 Lithium-Ion Battery	6	EA	\$	\$
5	1GB Industrial USB Memory Stick	3	EA	\$	\$
6	GPR121 Prism Circular - Pro -Black	3	EA	\$	\$
7	GLS12, Telescopic Alu Pole -Metric -w/ stub	3	EA	\$	\$
8	Infinity Basic (Floating Seats) - 2 nd , 3 rd seat and 4 th seat	3	EA	\$	\$
9	Leica Infinity GNSS Multi Frequency Data - Processing	3	EA	\$	\$
10	Seco Bipod -Alu -Screw Clamp -Thumb Release -Red	3	EA	\$	\$
11	Dutch Hill Tripod -FG Legs -Aluminum Head	3	EA	\$	\$

Table B.2 Initial Deliverables (GNSS)

Item #	Description	Qty	U of I	Unit Price	Extended Total
1	GS16 3.75G & UHF Performance Antenna	4	EA	\$	\$
2	LOP54 GLONASS Option for GS10/15/16/25	4	EA	\$	\$
3	GRT146 Carrier w/ 5/8" Thread	4	EA	\$	\$
4	GAD108 Antenna Arm to Mount External Antenna on GS	4	EA	\$	\$
5	Gainflex Radio Antenna (430MHz - 470MHz)	4	EA	\$	\$
6	MMSD01, microSD card 1 GB	4	EA	\$	\$
7	Leica GDF312 Tribrach with optical plummet	4	EA	\$	\$
8	Height Hook w/ Integrated Tape Measure	4	EA	\$	\$
9	GEV219 5 Pin - 8 Pin Lerno -GS14/15/16/18 power via Lerno	4	EA	\$	\$

Item #	Description	Qty	U of I	Unit Price	Extended Total
10	GEV242, Charger for GEB371 Power supply for GR10 receiver, for indoor use only, input 100V-240VAC 50 cable with 5-pin Lerno to connect to receiver. Requires 731772	4	EA	\$	\$
11	GEB371, External universal battery, Li-Ion	4	EA	\$	\$
12	GEB212 High Capacity Li-Ion Battery	18	EA	\$	\$
13	CS20 Field Controller Basic	2	EA	\$	\$
14	CS20 Leica Captivate - Measure & Stakeout	2	EA	\$	\$
15	CS20 - Measure and Stake to Line	2	EA	\$	\$
16	GVP721 Hard container for 2 Antennas and Controller	2	EA	\$	\$
17	Leica GKL341 Multi-bay Charger, Pro 5000	2	EA	\$	\$
18	GLS13 GPS Pole - Alum - w/ 5/8" - Locks at 1.8 +2.0m	2	EA	\$	\$
19	GHT63,Pole clamp for GHT62	2	EA	\$	\$
20	GHT66, Holder for CS20 (Requires GHT63)	2	EA	\$	\$
21	Dutch Hill Tripod - FG Legs - Aluminum Head	4	EA	\$	\$

Tables B.3 Optional Goods and/ or Services (Total Station)

Item #	Description	Qty	U of I	Unit Price	Extended Total
1	TS06 Plus Total Station, 3" with R500 Reflector-less (Power)	1	EA	\$	\$
2	Leica GDF321 PRO tribrach without optical plummet	1	EA	\$	\$
3	GKL311 Single Plate Charger for Lilon Batteries -AC+ Cig	1	EA	\$	\$
4	GEB221 Lithium-Ion Battery	2	EA	\$	\$
5	1GB Industrial USB Memory Stick	1	EA	\$	\$
6	GPR121 Prism Circular - Pro -Black	1	EA	\$	\$
7	GLS12, Telescopic Alu Pole -Metric -w/ stub	1	EA	\$	\$
8	Infinity Basic (Floating Seats)	1	EA	\$	\$
9	Leica Infinity GNSS Multi Frequency Data-Processing	1	EA	\$	\$
10	Seco Bipod -Alu -Screw Clamp -Thumb Release -Red	1	EA	\$	\$
11	Dutch Hill Tripod -FG Legs -Aluminum Head	1	EA	\$	\$

Table B.4 Optional Goods and/ or Services (GNSS)

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Item #	Description	Qty	Unit	Unit Price	Extended Total
1	GS16 3.75G & UHF Performance Antenna	1	EA	\$	\$
2	LOP54 GLONASS Option for GS10/15/16/25	1	EA	\$	\$
3	GRT146 Carrier w/ 5/8" Thread	1	EA	\$	\$
4	GAD108 Antenna Arm to Mount External Antenna on GS	1	EA	\$	\$
5	Gainflex Radio Antenna (430MHz - 470MHz)	1	EA	\$	\$
6	MMSD01, microSD card 1 GB	1	EA	\$	\$
7	Leica GDF312 Tribrach with optical plummet	1	EA	\$	\$
8	Height Hook w/ Integrated Tape Measure	1	EA	\$	\$
9	GEV219 5 Pin - 8 Pin Lerno -GS14/15/16/18 power via Lerno	1	EA	\$	\$
10	GEV242, Charger for GEB371 Power supply for GR10 receiver, for indoor use only, input 100V-240VAC 50 cable with 5-pin Lerno to connect to receiver. Requires 731772	1	EA	\$	\$
11	GEB371, External universal battery, Li-Ion	1	EA	\$	\$
12	GEB212 High Capacity Li-Ion Battery	4	EA	\$	\$
13	CS20 Field Controller Basic	1	EA	\$	\$
14	CS20 Leica Captivate - Measure & Stakeout	1	EA	\$	\$
15	CS20 - Measure and Stake to Line	1	EA	\$	\$
16	GVP721 Hard container for 2 Antennas and Controller	1	EA	\$	\$
17	Leica GKL341 Multi-bay Charger, Pro 5000	1	EA	\$	\$
18	GLS13 GPS Pole - Alum - w/ 5/8" - Locks at 1.8 +2.0m	1	EA	\$	\$
19	GHT63,Pole clamp for GHT62	1	EA	\$	\$
20	GHT66, Holder for CS20 (Requires GHT63)	1	EA	\$	\$
21	Dutch Hill Tripod - FG Legs - Aluminum Head	1	EA	\$	\$

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)

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FORM A – Bid Submission Form

BID SUBMISSION FORM		
Bidder's full legal name		
Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)	Name	
	Title	
	Address	
	Telephone #	
	Fax #	
	Email	
Bidder's Procurement Business Number (PBN) [see the Standard Instructions 2003]		
Jurisdiction of Contract: Province or Territory in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation)		
Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder . Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s). Bidders bidding as societies, firms, or partnerships do not need to provide lists of names.		
<p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none">1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation;2. This bid is valid for the period requested in the bid solicitation;3. All the information provided in the bid is complete, true and accurate; and4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation.		
Signature of Authorized Representative of Bidder		Date

FORM B: Substantiation of Technical Compliance Form

GENERAL INSTRUCTION

All items listed in this FORM B are mandatory requirements or specification.

1) Bidders that are offering the Makes and Models listed in Annex B – Basis of Payment:

- a. Bidders are requested to only to complete PART 1 and PART 2 of FORM B
- b. Canada reserves the right to request the bidder to substantiate that they comply with Section A.5 - MANUFACTURER OR MANUFACTURER AUTHORIZED

2) Bidders that are offering an “equivalent” product for any items listed in Annex B – Basis of Payment:

- a. Bidders are requested to complete PART 1, PART 2 and all applicable articles in PART 3 of FORM B with the following information:
 - i. provide the proposed make and model of the items listed herein;
 - ii. opposite each specification under **MANDATORY CRITERIA**, in the right hand margin “**Comply Yes/No**”, indicate whether or not the proposed system being offered meets or does not meet the requirements;
 - iii. opposite each specification under **MANDATORY CRITERIA**, in the right hand margin under **Substantiation**, provide technical literature or documentation to support this Mandatory Criteria. OR If Technical and descriptive literature is not available to substantiate a Mandatory Criteria, the bidder must provide an explanation or demonstrate how they propose to meet this criteria and
 - iv. opposite each specification under **MANDATORY CRITERIA**, in the right hand margin under **Reference**, provide the reference page number(s) in the provided Technical literature and in the Technical literature, highlight the technical information that supports your compliance with the mandatory criteria.

It will be to your advantage to furnish as much detail as possible to support the specifications your comments or claims of compliance for each specification.

- 3)** Canada is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided. Bidders should note that failure to demonstrate any capability to which they claim compliance will result in their proposal being considered non-responsive. Any deviation is to be clearly identified and supported with full details.

FORM B - SUBSTANTIATION OF TECHNICAL COMPLIANCE FORM – Mandatory CRITERIA

PART 1: Proposed Make and Model of Equipment:

Bidder are to complete one of the following Sections A

1	Bidder has proposed all the Makes and Models as described in Table B.1 and B.2 in Annex B OR	COMPLY YES___ NO ___
2	Bidder has proposed some or all “equivalent” products. On a separate sheet bidders are to provide a list of their proposed equipment in the following format	YES___ NO___

Item #	Equipment (Total Station)	Proposed “Equivalent” Make and Model
1	TS06 Plus Total Station, 3" with R500 Reflector-less (Power)	
2	Leica GDF321 PRO tribrach without optical plummet	
3	GKL311 Single Plate Charger for Lilon Batteries -AC+ Cig	
4	Etc.	

PART 2: CERTIFICATION OF COMPLIANCE WITH ALL THE MANDATORY REQUIREMENT LISTED IN PART 3 OF FORM B

Bidders certifies that their bid complies with all the mandatory specifications and requirements listed in PART 3 of FORM B.
COMPLY YES ___ NO ___

PART 3: SUBSTANTIATION OF TECHNICAL COMPLIANCE FOR “EQUIVALENT” PRODUCTS

Mandatory Criteria	Comply (yes/no)	Substantiation	Reference
A.1 GLOBAL NAVIGATION SATELLITE SYSTEM OVERALL SPECIFICATIONS - MANDATORY REQUIREMENTS			
1. The GNSS unit must: <ol style="list-style-type: none"> consist of a 120-channel Real-Time Kinematic (RTK) GNSS receiver, an integrated multi-frequency geodetic antenna and be compatible with the existing Leica System500, Leica GS10 and Leica GC15 RTK GPS receivers as well as with existing Leica CS20 and Leica CS15 handheld controllers, power supply and all associated hardware, associated equipment (excluding computer, tripod, tribrach, carriers), required to carry out Real-Time Kinematic surveys with On-The-Fly ambiguity resolution, as well as post-processed multi-frequency GNSS geodetic control surveys in static and rapid/fast static modes, and post processed multi-frequency GNSS surveys in kinematic modes that are currently in Surveyor General Branch's inventory; operate and be independently controlled as a RTK base unit, a RTK roving unit with on-the-fly ambiguity resolution, and a post-processed static/rapid, static/kinematic unit; operate in a temperature range of -40 C to +50 C, according to the manufacturer's published specifications; be completely environmentally secure for normal field use, a minimum IP68 specification environmental rating (e.g. rain, condensation, dust and temperature protection); have a combined weight of less than 3 kg when set up and operating as a RTK ROVER UNIT, including all required rover components; operate as a RTK rover that is contained in an “all-on-the-pole” cable-free configuration; 			

Mandatory Criteria		Comply (yes/no)	Substantiation	Reference
g.	be equipped with a durable, compact and light weight-hard cases(s) that can hold a complete unit and all associated equipment;			
h.	have a complete user manuals in digital format for all system components and functions;			
i.	have integrated Bluetooth 2.0 Class 2 communications, or better;			
j.	have a built-in system battery checks that indicate the amount of remaining battery life and/or alert the operator that power is low;			
k.	have a field upgradable system firmware. The unit's software must be stored in on-board memory or within a removable SD or micro SD card so that updates or upgrades to the system may be performed by the user;			
l.	be in current production with parts and service available for a minimum of 5 years;			
m.	include a full parts and labour warranty for 1 year. The Contractor must include a return to depot option located in Canada if the equipment cannot be repaired through the advice from the Service Desk.			
n.	include firmware updates for one year;			
A.2 RECEIVER - MANDATORY REQUIREMENTS				
2. The receiver must:				
a.	receive satellite signals, as a minimum GPS L1, L2, L2C, L5 and GLONASS L1, L2 channels and upgradable to Galileo and BeiDou satellite signals by way of firmware upgrade.			
b.	be able to measure full cycle carrier phase, and C/A code;			
c.	be Bluetooth enabled to communicate with a Leica CS15 or CS20 controller running SmartWorx or Leica Captivate firmware.			
d.	be able to store data within the receiver on a removable SD or micro SD card and have an option to store the raw data within a Leica CS15 or CS20 controller. Data storage must be both Leica GNSS raw data and RINEX data.			

Mandatory Criteria		Comply (yes/no)	Substantiation	Reference
e.	be able to log static data on a 1 GB (or more) industrial high speed micro SD card without the need of the hand controller.			
f.	be compatible with existing plug-in style Leica carriers and height hooks,			
g.	operate at 20 Hz with no degrading of accuracy.			
h.	have a range of 50 km under favourable conditions with better than 99.99% reliability when using cellular modems.			
i.	have an internal UHF rover radio which must be fully compatible with existing 35 watt Pacific Crest base radio utilizing "Leica" RTK messages (Leica, Leica 4G and RTSM) with GMSK type modulation type in the frequency range of 403-470 MHZ;			
j.	be able to continuously tracking all observables on dedicated L1, L2, L2C and L5 channels;			
k.	provide a static survey baseline horizontal accuracy of 3mm + 0.1ppm (rms), and a vertical accuracy of 3.5mm + 0.4ppm (rms) or better (following industry standard static surveying procedures and utilizing all available signals from 5 satellites);			
l.	provide a RTK and kinematic survey baseline horizontal accuracy of 8mm + 1ppm (rms) and a vertical accuracy of 15mm + 1ppm (rms) or better (following industry standard RTK kinematic surveying procedures and utilizing all available signals from 5 satellites);			
m.	be able to perform real-time ambiguity resolution on-the-fly up to 10 km from a base receiver and provide the accuracies as stated in 2.l.;			
n.	NOT lose initialization with a brief loss of the radio link during RTK surveys;			
o.	NOT require the operator to enter a reference position in order to lock on the satellite signals;			
p.	successfully lock on all available satellites in less than 60 seconds from "power on";			
q.	have user-selectable phase measurement data recording intervals ranging from 1 second to 60 seconds;			

Mandatory Criteria		Comply (yes/no)	Substantiation	Reference
r.	have user-selectable satellite elevation cut-off angle.			
s.	have a multi-frequency geodetic antenna designed for both static and RTK surveys;			
t.	be mount-able in a standard optical plumbing tribrach with adaptor;			
u.	include a rugged device designed for measuring the antenna height to an accuracy of 1mm when the antenna is mounted on a tripod;			
v.	be mount-able on a range pole utilizing a quick release mechanism;			
w.	have an internal ground plane.			
A.3 CONTROLLER - MANDATORY REQUIREMENTS				
3.	The controller <u>must</u>:			
a.	be able to withstand a 2m drop to a hard surface.			
b.	include lithium ion batteries that provide a 7 hour typical operation time;			
c.	be able of communicate with and configure the GNSS receivers and run Leica Viva software.			
d.	be Bluetooth enabled to communicate with a Leica GNSS equipment.			
e.	be able to store data within a removable SD or micro SD card and have an option to store the raw data within the controller. Data storage must be both Leica GNSS raw data and RINEX data.			
A.4 TOTAL STATION - MANDATORY REQUIREMENTS				
4.	The Total Station <u>must</u>:			
a.	be a non-robotic total station with an accuracy of 3 seconds or better;			
b.	be able to perform reflector-less measurements;			
c.	have an integrated laser plummet;			
d.	have an integrated Bluetooth Class 1 communications, or better;			
e.	operate in a temperature range of -20 C to +50 C according to the manufacturer's published specifications;			

Mandatory Criteria		Comply (yes/no)	Substantiation	Reference
f.	be equipped with a durable, compact and light weight-hard cases(s) which can hold a complete unit and all associated equipment;			
g.	include complete user manuals in digital format for all system components and functions;			
h.	have built-in system battery checks that indicate the amount of remaining battery life and/or alert the operator that power is low;			
i.	have field upgradable system firmware. The unit's software must be stored in on-board memory or within a removable SD or micro SD card so that updates or upgrades to the system may be performed by the user;			
j.	be compatible with the Leica CS20 and the Leica CS15 controllers, that are currently in the Surveyor General Branch's inventory;			
k.	be in current production with parts and service available for a minimum of 5 years;			
l.	have a full parts and labour warranty for 1 year. The Contractor's must include a return to depot option located in Canada if the equipment cannot be repaired through the advice from the Service Desk;			
m.	include firmware updates for one year;			
A.5 MANUFACTURER OR MANUFACTURER AUTHORIZED:				
The Contractor must be the manufacturer or a manufacturer authorized reseller and authorized local technical service provider to the Vancouver, Edmonton and Toronto areas, of the Leica GNSS and Total Station kits, as verified by Surveyor General Branch of Natural Resources Canada.				