



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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

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

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

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

Comments - Commentaires

Title - Sujet Procurement of Laser Range Finders	
Solicitation No. - N° de l'invitation W8476-195945/A	Date 2018-08-24
Client Reference No. - N° de référence du client W8476-195945	
GETS Reference No. - N° de référence de SEAG PW-\$\$QD-027-26955	
File No. - N° de dossier 027qd.W8476-195945	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 11:00 AM on - le 2018-09-24	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Westcott, Karen	Buyer Id - Id de l'acheteur 027qd
Telephone No. - N° de téléphone (343) 998-5234 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Defence Communications Division. (QD)
11 Laurier St./11, rue Laurier
Place du Portage, Phase III, 8C2
Gatineau, Québec K1A 0S5

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

LASER RANGE FINDER (LRF)

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided; and
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include:

- Annex A - Statement of Work
- Appendix 1 – Bid Evaluation Matrix
- Annex B - LRF System Specifications
- Annex C – Basis of Payment
- Annex E – Form PWGSC-TPSGC 450 Claim for Exchange Rate Adjustment
- Annex F - Federal Contractors Program for Employment Equity - Certification

1.2 Requirement

The Contractor must provide the goods and services in accordance with Annex A – Statement of Work, Annex B – LRF System Specification, and Annex C- Basis of Payment.

1.3 Trade Agreements

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

1.4 The Federal Contractors Program (FCP)

The Federal Contractors Program (FCP) for employment equity applies to this procurement; see Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the annex titled [Federal Contractors Program for Employment Equity - Certification](#).

1.5 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.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The 2003 (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: 150 days

2.1.1 SACC Manual Clauses

A7035T (2007-05-25) List of Proposed Subcontractors

A9033T (2012-07-16) Financial Capability

B1000T (2014-06-26) Condition of Material – Bid

2.2 Submission of Bids

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

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 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 Ontario.

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 Improvement of Requirement during Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 10 calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (3 hard copies and 1 soft copy on CD)

Section II: Financial Bid (1 hard copy and 1 soft copy on CD)

Section III: Certifications and Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) Use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) Use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in Annex A - Statement of Work and Annex B - LRF System Specifications on a paragraph-by-paragraph basis. Bidders must provide their responses and provide comments as to how they will carry out the work listed in Annex A and Annex B.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, 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.

Bidders should provide the page number and exact location of the brochures, document, and evidence of compliance, proof or any other material submitted with the Technical Bid to demonstrate compliance.

Bidders should provide their responses in its technical proposal as per the following:

1) A compliance statement ("Compliant" or "Non-compliant"). "Compliant" statement will be interpreted as meaning full agreement with the requirement, whereas a "Non-complaint" statement will be interpreted as meaning not in full agreement with the requirement and the proposal will be deemed non-responsive and not given any further consideration.

2) For mandatory requirements, statements such as "Read", "Comply with Intent", "Partial Compliance", "Noted" or the like will be considered as non-responsive; Paragraphs, elements and subparagraphs that convey information rather than a requirement must be marked with "Noted and Understood".

3.2 Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex C - Basis of Payment. The total amount of Applicable Taxes must be shown separately.

3.3 Exchange Rate Fluctuation Risk Mitigation

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

3.4 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) Bidders will be evaluated to determine if they comply with the entire requirement of the RFP including the technical and financial evaluation criteria.
- (b) Canada will use the Phased Bid Compliance Process described below.
- (c) An evaluation team composed of representatives of Canada and ADGA Group Consultants Inc. will evaluate the bids.
- (d) The definitions of mandatory requirements are as follows:

MANDATORY REQUIREMENTS: Bidders should note that all MANDATORY requirements are identified specifically with the word "shall", "must", "will", "mandatory". In the case where a MANDATORY item cannot be or is not complied with, the Bid shall not receive any further consideration.

- (e) Compliance with all of the mandatory provisions of the RFP, including, without limitation, all Annexes, Attachments and the terms and conditions applicable to any resulting contract is mandatory.

4.1.1 Phased Bid Compliance Process (PBCP)**4.1.1.1. (2018-07-19) General**

- a) Canada is conducting the Phased Bid Compliance Process described below for this requirement.
- b) Notwithstanding any review by Canada at Phase I or II of the Phased Bid Compliance Process, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada.

THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PHASED BID COMPLIANCE PROCESS ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

- c) Canada may, in its discretion, request and accept at any time from a Bidder and consider as part of the Bid, any information to correct errors or deficiencies in the Bid that are clerical or administrative, such as, without limitation, failure to sign the Bid or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Bidder has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. The Bidder will have the time period specified in

writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Bid being declared non-responsive.

- d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2018-05-22) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right, or in the circumstances described in subsection (c).
- e) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.1.1.2 (2018-03-13) Phase I: Financial Bid

- a) After the closing date and time of this bid solicitation, Canada will examine the Bid to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements.
- b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- c) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing all of the information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.
- d) For Bids other than those described in c), Canada will send a written notice to the Bidder ("Notice") identifying where the Financial Bid is missing information. A Bidder whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.
- e) The Bidders who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.
- f) In its response to the Notice the Bidder will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Bidder and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- g) Any other changes to the Financial Bid submitted by the Bidder will be considered to be new

information and will be disregarded. There will be no change permitted to any other Section of the Bidder's Bid. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, only that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.

- h) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Bidder in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- i) Only Bids found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.1.1.3 (2018-03-13) Phase II: Technical Bid

- a) Canada's review at Phase II will be limited to a review of the Technical Bid to identify any instances where the Bidder has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meets any standard or is responsive to all solicitation requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the Phased Bid Compliance Process. Mandatory technical criteria that are not identified in the solicitation as being subject to the Phased Bid Compliance Process, will not be evaluated until Phase III.
- b) Canada will send a written notice to the Bidder (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Bid has failed to meet. A Bidder whose Bid has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Bid has been found responsive to the requirements reviewed at Phase II. Such Bidder shall not be entitled to submit any response to the CAR.
- c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.
- d) The Bidder's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Bidder which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Bid, the Bidder shall identify such additional changes, provided that its response must not include any change to the Financial Bid.
- e) The Bidder's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Bidder must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory Criterion. It is not up to Canada to revise the Bidder's Bid, and failure of the Bidder to do so in accordance with this subparagraph is at the Bidder's own risk. All submitted information must comply with the requirements of this solicitation.

- f) Any changes to the Bid submitted by the Bidder other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, only that part of the original Bid as is permitted in this Section.
- g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Bid, but will be considered by Canada in the evaluation of the Bid at Phase II only for the purpose of determining whether the Bid meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Bid would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Bidder in response to the CAR. If so, the Bid will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Bidder shall bind the Bidder as part of its Bid, but the Bidder's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Bid.
- h) Canada will determine whether the Bid is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Bidder in accordance with this Section. If the Bid is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- i) Only Bids found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.1.1.4 (2018-03-13) Phase III: Final Evaluation of the Bid

- a) In Phase III, Canada will complete the evaluation of all Bids found responsive to the requirements reviewed at Phase II. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- b) A Bid is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.1.2 (2017-07-31) Technical Evaluation

4.1.2.1 (2017-07-31) Mandatory Technical Criteria

Mandatory technical evaluation criteria are included in Appendix 1.

The Phased Bid Compliance Process will apply to all mandatory technical criteria.

4.2 Financial Evaluation

4.2.1. Financial Bids will be evaluated in Canadian currency. Prices submitted in foreign currency will be converted to Canadian dollars based on the exchange rate provided by the Bank of Canada at 16:30 Eastern Time (ET) on the date of the RFP closing date and the resulting conversion values will be used for the evaluation.

4.2.2. Financial bids will be evaluated based on prices received from Bidders set out in Annex C. The evaluated price will be the sum of the totals of Table 1 and Table 2. No other pricing or financial information, if provided, will be evaluated.

4.3 Basis of Selection –Mandatory Technical Criteria

4.3.1 To be declared responsive, a bid must:

- a. comply with all the requirements of the bid solicitation; and
- b. meet all mandatory criteria; and

4.3.2 Bids not meeting a or b will be declared non-responsive.

4.3.3 Neither the responsive bid nor the one with the lowest evaluated price will necessarily be accepted. 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.

1 Certifications Required with the Bid

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

1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

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 specified will render the bid non-responsive.

2.1 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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), for each member of the Joint Venture.

PART 6 - RESULTING CONTRACT CLAUSES

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

1. Statement of Work

The Contractor must perform the Work in accordance with Annex A – Statement of Work and Annex B – LRF System Specifications the Contractor's technical bid entitled _____, dated _____.

2. 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.

2030 (2018-06-21), General Conditions – Goods (Higher Complexity) apply to and form part of the Contract.

2.1 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase,

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

3. Term of Contract**3.1 Period of the Contract**

The period of the contract is defined as being from the date of contract award until all services and deliverables have been delivered and accepted, all warranties have expired, and no outstanding warranty issues exist.

3.2 Delivery Date

It is highly desired to have all the firm deliverables received no later than 31 March, 2019. Multiple shipments are acceptable to ensure complete delivery by 31 March, 2019.

3.3 Option to purchase Optional Quantities

The Contractor grants to Canada the irrevocable option to acquire the goods and or services described in Annex A - Statement of Work and Annex B- LRF System Specifications of the Contract under the same conditions and at the prices and/or rates stated in Annex C – Basis of Payment 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.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

3.4 Option to Extend the Period of the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one (1) year option periods under the same conditions. The option periods are:

- 1) 1 April, 2019 until 31 March, 2020;
- 2) 1 April, 2020 until 31 March, 2021.

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 any time 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.

4. Defence Contract

The Contract is a defence contract within the meaning of the [Defence Production Act](#), R.S.C. 1985, c. D-1, and must be governed accordingly.

Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the [Defence Production Act](#).

5. Controlled Goods

The Contract involves controlled goods as defined in the Schedule to the [Defence Production Act](#). The Contractor must identify those controlled goods to the Department of National Defence.

6. Authorities

6.1 Contracting Authority

The Contracting Authority for the Contract is:

Ms. Karen Westcott
Supply Team Leader
Public Services and Procurement Canada
Acquisitions Branch (LAEPSS)
Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC K1A 0S5
Government of Canada

Telephone: (343) 998-5234
E-mail: karen.westcott@tpsgc-pwgsc.gc.ca

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

6.2 Technical Authority

The Technical Authority for the Contract is:

To be inserted at Contract award.

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority; however the Technical Authority has no authority to authorize changes to the scope of

the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.3 Procurement Authority

The Procurement Authority for the Contract is:

To be inserted at Contract award.

The Procurement 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 financial and technical content of the Work under the Contract. Technical matters may be discussed with the Procurement Authority; however the Procurement Authority has no authority to authorize changes to the scope of the Work or the pricing in the Basis of Payment (Annex C). Changes to the scope of the Work or the Basis of Payment can only be made through a contract amendment issued by the Contracting Authority.

6.4 Contractor's Representative

To be inserted at Contract award.

Bidders to provide name, title, telephone number and email address.

7. Payment

7.1 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 C – Basis of Payment, Customs duties are excluded and Applicable Taxes are extra, if applicable.

For the firm price portion of the Work only, 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.

7.2 Method of Payment

7.2.1 H1001C (2008-05-12) Multiple Payments

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

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

8. Exchange rate fluctuation adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment. The exchange rate adjustment amount will be calculated in accordance with the following formula:
Exchange rate adjustment = $FCC \times Qty \times (i_1 - i_0) / i_0$
where formula variables correspond to:

FCC

Foreign currency component (per unit)

Qty

quantity of units

 i_0

Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]).

The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date.

The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

 i_1

Exchange rate for adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]).

The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

- a. The ERA for goods will be the Bank of Canada rate on the date the goods were delivered.
 - b. The ERA for services will be the Bank of Canada rate on the last business day of the month for which the services were performed.
 - c. The ERA for advance payments will be the Bank of Canada rate on the last business day prior to the payment. The last published business day rate will be used for non-business days.
4. The Contractor must indicate the total exchange rate adjustment amounts (whether they are upward, downward or present no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form [PWGSC-TPSGC 450](#), Claim for Exchange Rate Adjustments.
 5. The exchange rate adjustment will only impact the payment to be made by Canada where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form [PWGSC-TPSGC 450](#) (that is $[i_1 - i_0] / i_0$).
 6. Canada reserves the right to audit any revision to costs and prices under this clause.

9. Invoicing Instructions**9.1 Multiple Payment**

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.

Each invoice must be supported by:

- a. a copy of the release document and any other documents as specified in the Contract; and/or
- b. equivalent substantiation

2. Each invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the Procurement Authority for certification and payment to:

National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DLP 5
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

10. Shipping Instructions

10.1a Shipping Instructions - Foreign-based Contractors

1. Delivery will be FCA Free Carrier at _____ (*insert the named place at contract award*) Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

(Details of DND Inbound Logistics Coordination Center will be inserted at contract award when the location of the Contractor is known.)

3. The Contractor must provide the following information to the DND Inbound Logistics contact when arranging for shipment:
 - a. the Contract number;
 - b. consignee address (if multiple addresses, items must be packaged and labeled separately with each consignee address);
 - c. description of each item;
 - d. the number of pieces and type of packaging (e.g. carton, crate, drum, skid);
 - e. actual weight and dimensions of each piece type, including gross weight;
 - f. copy of the commercial invoice (in accordance with clause [C2608C](#), section 4, of the [Standard Acquisition Clauses and Conditions Manual](#)) or a copy of the Canada Border Services Agency form CI1 [Canada Customs Invoice](#) (PDF 429KB) - ([Help on File Formats](#));
 - g. [Schedule B](#) codes (for exports) and the Harmonized Tariff Schedule codes (for imports);
 - h. North American Free Trade Agreement Certificate of Origin (in accordance with clause C2608C, section 2) for the U.S. and Mexico only;
 - i. full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, or International Air Transport Association regulations or the applicable Canadian [Dangerous Goods Shipping Regulations](#) and a copy of the material safety data sheet.

4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, the marking of each piece with a Transportation Control Number and customs documentation.
5. The Contractor must not ship goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time that are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

10.1b. Shipping Instructions - Canadian-based Contractors

1. Delivery will be FCA Free Carrier at _____ (*Insert the named place at contract award*) Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

Inbound Logistics Co-ordination Center (ILCC)
Telephone: 1-877-877-7423 (toll free)
Facsimile: 1-877-877-7409 (toll free)
E-mail: ILHQOttawa@forces.gc.ca

3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
 - a. the Contract number;
 - b. consignee address (for multiple addresses, items must be packaged and labelled separately with each consignee address);
 - c. description of each item;
 - d. the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
 - e. actual weight and dimensions of each piece type, including gross weight;
 - f. full details of dangerous goods/hazardous products, as required for the applicable mode of transportation, signed certificates for dangerous goods/hazardous products as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian *Transportation of Dangerous Goods Regulations*, and a copy of the safety data sheet in English and French.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, and the marking of each piece with a Transportation Control Number.
5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.

6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either 30 days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or 30 days following the delivery date specified in the Contract, whichever is later.

11. Additional Package Markings - Identical

1. The Contractor must ensure that in addition to the required interior and exterior package markings, the following information is provided:
 - a. manufacturer's name;
 - b. manufacturer's part number;
 - c. description;
 - d. quantity/unit of issue;
 - e. date of manufacture;
 - f. contract number
2. These markings must be applied and positioned in accordance with Canadian Forces Packaging Specification D-LM-008-002/SF-001.

12. Packaging Requirement using Specification D-LM-008-036/SF-000

The Contractor must prepare the goods for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

13. Release Documents – Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:

*National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: _____*
- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and

- g. For all non-Canadian contractors, one (1) copy to:

*DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
E-mail: ContractAdmin.DQA@forces.gc.ca.*

14. 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.

15. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

16. SACC Manual Clauses

B4042C (2008-05-12) Identification Markings
B4061C (2008-05-12) North Atlantic Treaty Organization Codification – Data Requirements
B7500C (2006-06-16) Excess Goods
C2000C (2007-11-30) Taxes - Foreign-based Contractor
C2604C (2013-04-25) Customs Duties, Excise Taxes and Applicable Taxes – Non Resident
C2605C (2008-05-12) Canadian Customs Duties and Sales Tax – Foreign-based Contractor
C2606C (2008-05-12) Custom Duties and Excise Taxes - Exemption
C2610C (2007-11-30) Custom Duties – Department of National Defence - Importer
C2611C (2007-11-30) Custom Duties – Contractor Importer
C2800C (2013-01-28) Priority Rating
C2801C (2017-08-17) Priority Rating - Canadian Contractors
D0050C (2007-05-25) End User Certificate
D2001C (2007-11-30) Labelling
D2017C (2008-05-12) Bar Coding – Material Marking
D2025C (2017-08-17) Wood Packaging Materials
D3012C (2014-06-26) Preparation for Delivery – Canadian Forces Preservation, Packaging and Packing
D3013C (2007-11-30) Preparation for Delivery – Canadian-based Contractor
D5510C (2017-08-17) Quality Assurance Authority (DND) - Canadian-based Contractor
D5515C (2010-01-11) Quality Assurance Authority (Department of National Defence) - Foreign- based and United States Contractor

D5545C (2010-08-16)	ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)
D5604C (2008-12-12)	Release Documents (DND) - Foreign-based Contractor
D5605C (2010-01-11)	Release Documents (DND) - United States-based Contractor
D5606C (2017-11-28)	Release Documents (DND) - Canadian-based Contractor
D6010C (2007-11-30)	Palletization
D9002C (2007-11-30)	Incomplete Assemblies
D3010C (2016-01-28)	Delivery of Dangerous Goods/Hazardous Products
D3015C (2014-09-25)	Dangerous Goods / Hazardous Products - Labelling and Packaging Compliance

17. Certifications and Additional Information

17.1 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.

17.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

18. Applicable Laws

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

19. 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 supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;
- (c) the supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (d) the general conditions 2030 (2018-06-21), General Conditions - Higher Complexity - Goods;
- (e) Annex A - Statement of Work;
- (f) Annex B - LRF System LRF System Specifications Specifications;
- (g) Annex C - Basis of Payment;
- (h) Annex E - Claim for Exchange Rate Adjustments; and
- (i) Annex D - Contractor's bid dated ____.

ANNEX "A"

STATEMENT OF WORK

(See attached)

ANNEX "B"

SPECIFICATIONS

(See attached)

ANNEX "C"

BASIS OF PAYMENT

(See attached)

ANNEX "E"

FORM PWGSC-TPSGC 450 CLAIM FOR EXCHANGE RATE ADJUSTMENT

(See attached)

ANNEX "F" to PART 5 OF THE BID SOLICITATION**FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY – CERTIFICATION**

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – Labour's](#) website.

Date : _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

- A5.1. The Bidder certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

OR

- A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity \(LAB1168\)](#) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

- B2. The Bidder is a Joint venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

(See attached)

APPENDIX 1

BID EVALUATION MATRIX

(See attached)

ANNEX A
STATEMENT OF WORK

FOR

HAND-HELD

LASER RANGE FINDER

**STATEMENT OF WORK
FOR
HAND-HELD
LASER RANGE FINDER**

1. General

1.1 Requirement. The Department of National Defence (DND) Canada has a requirement to procure Hand-held Laser Range Finders (LRF) including associated accessories, documentation and training.

1.2 Scope of Work. The work to be performed requires the manufacture, inspection, and delivery of the LRFs, ancillary items, spares and an Operator training course and package.

1.3 Background. The Canadian Armed Forces requires an accurate and reliable means of determining target location, in both day and night environments, in order to direct precise artillery or air based ammunition on to a target. In addition, there is a requirement to integrate the LRF with the Integrated Soldier System Suite after contract award. The Soldier System Contractor will require the hardware and software Interface Control Documents for integration purposes only.

1.4 Non-Developmental Item. DND does not intend to fund a developmental project to achieve this requirement. It is therefore a mandatory requirement that the offered Hand-held Laser Range Finder be of proven (tested) design, be in current production or have been within the past 12 months, and be in-use by a North Atlantic Treaty Organization (NATO) or American, British, Canadian, Australian, and New Zealand (ABCANZ) member armed forces.

1.5 Applicable Documents.

1.5.1 ANSI Z 136.1, American National Standards for Safe Use of Lasers

1.5.2 Annex B – Laser Range Finder System Specification

1.5.3 D-02-002-001/SG-001, Identification Marking of Canadian Military Property

2. Goods Required. The following paragraphs describe those items that are essential to the completion of the work required.

2.1 Laser Range Finder Performance. The offered LRF must meet all characteristics detailed in Annex B “Laser Range Finder System Specification”.

2.2 Laser Hazard Assessment Documentation. The Contractor must provide a detailed laser hazard assessment to the DND Technical Authority (TA) within 30 days of contract award. The laser hazard assessment must, as a minimum, outline the operating characteristics of Nominal Ocular Hazard Distance (NOHD), Extended Nominal Ocular Hazard Distance (ENOHD), Maximum Permissible Exposure (MPE) and related laser hazards and preventative measures for training and operations. Any calculations must be referenced to the ANSI standard for laser safety. The Contractor must support validation of the LRF with the Canadian Air Force Safety Centre and National Defence Laser Safety Office. Support is anticipated to be in the form of

Page 2 of 5

technical literature.

2.3 Acceptance Criteria. Formal acceptance of the LRFs will be based upon certification by the Manufacturer's Quality Assurance program that all existing manufacture and inspection criteria have been met and that the LRF components meet all form, fit and function requirements as per the manufacturer's performance specifications (Factory QA). The Contractor must produce a Certificate of Conformity (CoC) for each delivered LRF. A copy of the CoC must be included with each delivered LRF and a PDF copy must be sent to the DND Technical Authority (TA).

2.4 Equipment Identification. Bilingual (English/French) identification labels/plates must be affixed to each LRF in accordance with Canadian Forces Standard D-02-002-001/SG-001, Identification Marking of Canadian Military Property.

2.5 Operators Manual. Each LRF must be furnished with a bilingual, English and French, Operators manual, which contains illustrated operating, preventive and user maintenance, and related safety instructions. The manual may be in contractor or commercial format. Although it is preferred that this manual contain both the English and French text, it is acceptable if separate documents (one in English and the other in French) are provided. A digital copy in searchable PDF format must be provided to the DND TA no later than 120 days after contract award. Canada must have the right to translate and reproduce, for government purposes, all or any part of the Operators Manual supplied with the equipment delivered under the Contract.

2.6 Quick Reference Guide. Each LRF must be furnished with a bilingual, English and French, quick reference guide (QRG) that contains the basic instructions necessary for LRF usage. This QRG must be printed on weather resistant material. Although it is preferred that this QRG contain both the English and French text, it is acceptable if separate documents (one in English and the other in French) are provided.

2.7 Parts Breakdown Document. The Contractor must provide an LRF parts top down-breakdown with illustrations in the contractor's format that shows contractor's part numbers and quantity per equipment for each item. This parts breakdown must be provided to the DND TA no later than 120 days after contract award.

2.8 Initial Spare Parts List. The Contractor must provide a recommended list of initial spare parts to support the LRFs for a period of 2 years of use. The spares list must be based on the support of the firm quantity of LRFs. The spare parts list must be delivered to the DND TA no later than 90 days after contract award. The spare parts list must be annotated with manufacturer's part number, NATO stock number (where available), proposed quantity, unit price and extended price for each recommended spare part. If items are not catalogued with NATO Stock Numbers, the contractor must provide the necessary technical data (drawings) to allow DND to catalogue all spare parts. Upon contract award, Canada will determine what spares will form part of the spares procurement listed in Annex C, Basis of Payment. From time to time, there might be a necessity to modify this list and add or delete items as deemed necessary.

2.9 Operator Training Course. The Contractor must provide an instructor training course to "train-the-trainers", to be conducted at the Combat Training Center, Canadian Forces Base Gagetown, New Brunswick, Canada for a total of 10-15 students. The training course must be provided in the English language.

2.9.1 The duration of the course must not exceed 2 days. A proposed course outline indicating major teaching points, time allocation, reference material and required resources, must be submitted for DND's approval no later than 60 days after contract award.

2.9.2 The course must be comprised of classroom theory and field practical portions. A copy of the LRF student course material must be provided to each of the students and one copy must be provided to the DND TA. One digital copy of the instructor's course training material in Microsoft Office format must be delivered to DND TA upon completion of the course.

2.9.3 The course must be conducted no earlier than 30 days after the first delivery of any LRFs and at a date and time agreed upon by the TA and the contractor.

2.10 Optional Operator Training Course. The Contractor must provide up to 10 additional Operator Training Courses at various locations across Canada. Specific locations will be detailed after optional LRF quantities have been exercised by Canada. Except for the location, optional courses must be based on the requirements detailed at Para 2.9.

2.11 Contractor Support and Repair. The Contractor must guarantee, in writing, a capability to support and repair non-serviceable LRFs for a period of at least 10 years after final delivery of all LRFs.

2.12 Interface Control Documents. There is a requirement to integrate the LRF with the Integrated Soldier System Suite after contract award. The Contractor must provide the hardware and software Interface Control Documents in sufficient detail to the DND TA and to Canada's Soldier System Contractor for integration purposes only, including, but not limited to, the data nature and type available via interface. The Interface Control Documents must be provided to the DND TA no later than 30 days after contract award (or mutually agreed upon date).

3. Deliverables

Item	Description	Delivery Schedule
0001	Laser Range Finder kit	Prior to 31 March 2019
0002	Interface cable, DAGR	Prior to 31 March 2019
0003	Interface cable, PC	Prior to 31 March 2019
0004	Laser Hazard Assessment Documentation	Within 30 days of contract award
0005	Outline for Operator Training Course	No later than 60 days after contract award
0006	Parts Breakdown Document	No later than 120 days after contract award
0007	Initial Spares List and associated technical data packages	No later than 90 days after contract award
0008	Operator Training Course	No earlier than 30 days after the first delivery of any LRFs
0009	Student Course Material	With the training course
0010	Instructor's Course Training Material	Upon completion of the course

0011	Optional Spares	Exercised as per contract
0012	Optional Operator Training Course	Exercised as per contract
0013	Interface Control Documents	No later than 30 days after contract award (or mutually agreed upon date)

3.1 Delivery Schedule. Multiple shipments are acceptable. It is highly desirable that the contractor deliver quantity of 200 LRFs prior to 31 March 2019.



ANNEX B

HAND-HELD LASER RANGE FINDER

SYSTEM SPECIFICATION



HAND-HELD LASER RANGE FINDER SYSTEM SPECIFICATION

1 GENERAL

1.1 This specification outlines the mandatory performance and technical characteristics for a Hand-held Laser Range Finder (hereafter referred to as the LRF).

1.2 This LRF is a compact, lightweight, hand-held Laser Range Finder with daytime optics that incorporates both a digital compass and inclinometer to allow Forward Observation Officers (FOO) and Forward Air Controller (FAC) parties to direct and correct the fall of shot on to applicable targets.

2 OPERATIONAL CONCEPT

2.1 The LRF will be used in a tactical setting. It will be used in all types of demanding environmental conditions and is expected to perform reliably. It will be carried by soldiers over rugged terrain.

3 REFERENCE DOCUMENTS

- 3.1 ANSI Z 136.1, American National Standards for Safe Use of Lasers;
- 3.2 MIL-STD-810G, Environmental Engineering Considerations and Laboratory Tests;
- 3.3 ICD-GPS-153, Interface Control Document for the GPS Serial Interface Protocol; and
- 3.4 ISO 9000, Quality Management Systems.

4 SYSTEM COMPONENTS

4.1 Each LRF kit must include the following items:

- 4.1.1 Laser Range Finder;
- 4.1.2 a soft field carrying case;
- 4.1.3 night vision adapter;
- 4.1.4 cleaning supplies (i.e. microfiber cloth or lens paper and lens cleaning solution);
- 4.1.5 a Operators Manual and a Quick Reference Guide;
- 4.1.6 battery (ies).

5 SYSTEM REQUIREMENTS

5.1 The LRF must incorporate daytime optics, a laser range finder, a digital compass and an



inclinometer.

5.2 The LRF laser must be a Class I, eye safe laser.

6 PERFORMANCE CHARACTERISTICS

6.1 LRF daytime optics performance characteristics:

6.1.1 The field of view must be at least 100 mils;

6.1.2 The magnification must be at least 6X, but must not exceed 8X;

6.1.3 A reticle must be provided that incorporates marked graduations every 5 mils for a minimum of 100 mils horizontal and 50 mils vertical; and

6.1.4 The eyepiece(s) must have diopter adjustment of at least +2 to -4 diopters.

6.2 LRF laser performance characteristics:

6.2.1 The LRF must be fully operational within 2 seconds of powering on;

6.2.2 The LRF must range stationary and moving targets providing diffuse reflections at ranges between 25 meters and 5,000 meters under conditions of unlimited visibility;

6.2.3 The LRF must discriminate between a minimum of two targets along the same line-of-sight where range separation is 50 meters or greater;

6.2.4 The LRF laser axis must be collimated (often referred to as bore sighted) to the optical axis of the daytime optics. Collimation between the transmitted laser beam axis and the daytime optics axis must be maintained over the full range of use and environmental conditions without operator correction; and

6.2.5 The LRF maximum range error must not exceed +/-5 meters over the full range of the range finding capability.

6.3 LRF digital compass and internal inclinometer performance characteristics:

6.3.1 The digital compass must provide means to compensate for the local magnetic declination to an accuracy of 1 mil or less;

6.3.2 The bearing error of the digital compass must not exceed +/-10 mils;

6.3.3 The angle of site error of the internal inclinometer must not exceed +/- 5 mils; and

6.3.4 The internal inclinometer must provide angles of inclination readings between at least +/- 800 mils.

6.4 LRF System performance characteristics:

6.4.1 The LRF must provide the operator a digital readout of range, bearing and angle of site;



6.4.2 The LRF must display range readings in meters and bearing and angle of site readings in mils;

6.4.3 The LRF must display all pertinent data, including range, bearing, angle of site and menus through the eyepiece to allow the operator to receive information while maintaining observation on a target;

6.4.4 The LRF must measure the direction and distance between two points and provide this information to the operator;

6.4.5 The LRF must determine fall-of-shot corrections for artillery rounds and must display these corrections to the operator through the eyepiece;

6.4.6 If calibration of the digital compass is required, the LRF must inform the user of successful/unsuccessful calibration attempts;

6.4.7 The LRF must interface with a tripod that utilizes a standard ¼ inch thread connection;

6.4.8 The LRF must include the optical/mechanical interface to allow it to be used with the in-service AN/PVS-14 night vision goggles;

6.4.9 The LRF must output information via an RS-232 ports. Format and interface protocols must be compatible with the electrical interface standard defined in ICD-GPS-153; and

6.4.10 The LRF must be provided with Bluetooth capability. If not embedded, the Bluetooth accessory must be attached directly to the LRF without cables and additional power source. The Bluetooth must be able to be disabled by the user to provide a radio silence mode. The Bluetooth setting (enabled or disabled) must not automatically change with on/off power cycles nor with battery replacement.

6.5 LRF Power performance characteristics;

6.5.1 The LRF must use batteries that are readily available on the commercial market and that are not a product that is unique to the Original Equipment Manufacturer (OEM);

6.5.2 The LRF must provide at least 3000 laser range measurements at +20° C without replacing the battery(ies);

6.5.3 The LRF must provide a visual indicator that warns the user when the battery(ies) are getting low; and

6.5.4 The battery(ies) must be replaceable by the user without the need for special tools.

7 DESIGN CONSTRUCTION

7.1 The LRF must not be larger than 15 cm x 11 cm x 6 cm.

7.2 The LRF with battery(ies) installed, but minus carrying case, must not weigh more than 0.5 Kg.

7.3 The LRF must be constructed with materials that can withstand exposure to common



substances (including petroleum, oil, lubricants, insect repellent, camouflage creams, decontaminants, salt water and spray, alcohol and body oils) without degradation of its capabilities.

7.4 The construction of the LRF must not require the use of any Polychlorinated Biphenyls.

7.5 The LRF must include the mechanical interface to allow connection to a personal computer using a USB type connection.

7.6 The LRF must include the mechanical interface to allow connection to the in-service Defense Advanced Global Positioning System Receiver (DAGR) units.

7.7 The exterior of the LRF must be finished primarily with a matt, dark-coloured material or paint.

7.8 Exposed metal surfaces must be provided with a chemical finish that is corrosion resistant.

7.9 The LRF must be provided with a Field Carrying Case that is a semi-rigid or soft design using commercially available heavy duty, water and mildew resistant fabric. The fabric must be a flat, dark color. The Field Carrying Case must carry the LRF, the quick reference guide and any provided ancillary items internally.

7.10 The LRF must be manufactured and inspected in accordance with an approved ISO9000 or equivalent quality inspection system to assure adherence to required performance, quality and workmanship standards.

8 ENVIRONMENTAL REQUIREMENTS

8.1 The LRF must have been tested in accordance with MIL-STD-810G or equivalent for the following environmental conditions:

8.1.1 High Temperature, Operating – The LRF must meet all performance criteria listed at paragraph 6 at temperatures up to +63⁰ C;

8.1.2 Low Temperature, Operating – The LRF must meet all performance criteria listed at paragraph 6 at temperatures down to –35⁰ C;

8.1.3 High Temperature, Storage – Within its operating temperature limits, the LRF must meet all performance criteria listed at paragraph 6 after storage at temperatures up to +85⁰ C;

8.1.4 Low Temperature, Storage – Within its operating temperature limits, the LRF must meet all performance criteria listed at paragraph 6 after storage at temperatures down to –40⁰ C;

8.1.5 Immersion – The LRF must not show any signs of water ingress and suffer no degradation in performance after submersion in water for 3 minutes at a depth of 1.0 meter; and

8.1.6 Additional Environmental Conditions – The LRF must also have undergone testing for vibration, shock, sand, dust, salt/fog, icing, humidity and rain.

9 IDENTIFICATION AND SAFETY LABELS



9.1 Identification Labels. Each LRF Unit must be provided with a serial number indelibly marked on an identification plate which must be permanently affixed to the LRF housing.

9.2 Safety Labels. Each LRF must include all Laser and Hazardous material safety labels as applicable.

ANNEX C, BASIS OF PAYMENT-TO BE COMPLETED BY BIDDER

FIRM REQUIREMENTS (Table 1 to be completed by Bidder)		Qty	Firm to be delivered before 31 March 2019	Extended Price
Firm				
1	Laser Range Finder (Kit) (desirable to be delivered by 31 March, 2019)	205		
2	Interface cable, DAGR	200		
3	Interface cable, PC	200		
4	Operator Training Course, including supporting documentations and course materials	1		
5	Documentation Set including Laser Hazard Assessment, Parts Breakdown, and required technical data packages	1		
All blocks, 1-5, must be filled out for Total evaluated price		Total Extended Price		

OPTIONAL REQUIREMENTS (Table 2 to be completed by Bidder)		Qty (up to)*	Pricing if exercised before 31 March 2019	Extended Price before 31 March 2019	Option1 Pricing 1 April 2019 - 31 Mar 2020	Extended Price 1 April 2019 - 31 Mar 2020	Option2 Pricing 1 April 2020 - 31 Mar 2021	Extended Price 1 April 2020 - 31 Mar 2021
Table 2	Note: Optional Requirements are not firm orders. Canada may or may not exercise one or all items within this table. The Optional Requirements do not in any way constitute a commitment on behalf of Canada. The maximum qty of optional requirement is 740 and 10 training courses, Canada may exercise this qty at any time throughout the exercised Optional years. Once the maximum qty has been ordered, there will be no more goods/services.							
1	Optional Laser Range Finder (Kit)	740						
2	Interface cable, DAGR	740						
3	Interface cable, PC	740						
4	Optional Operator Training Course (including supporting documentations and course materials) Travel and Living as per note below	10						
All blocks, 1-4, must be filled out for Total Price		Total Extended Price						

Total evaluated price	
Total Table 1 (Equals Total Extended Price)	
Total Table 2 (Sum of total Extended Price)	
Total Financial Bid Price	

Optional Spare Parts Order (Note: Bidders should provide breakdown of parts with their pricing which will be inserted after contract award)		Qty	Pricing before 31 March 2019	Pricing 1 April 2019 - 31 Mar 2020	Pricing 1 April 2020 - 31 Mar 2021
1	As determined by the Technical Authority after review of recommended spares parts list	TBD			
This table is not evaluated as part of the bid					
<p>Travel and Living Expenses: Where the satisfactory performance of Optional Operators Training Course entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:</p> <p>a) The provisions in the directive referring to "travelers", rather than those referring to "employees"; and</p> <p>b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.</p>					

APPENDIX 1 TO ANNEX A - TECHNICAL EVALUATION MATRIX

1. GENERAL

1.1 Bidders must provide their response in a document that follows the format of Appendix 1 to Annex A – Eval of LRF SOW / Spec.

1.2 For some of the mandatory requirements, bidders are required to declare compliance with or have conducted testing in accordance with a specific standard. However, a bidder may declare compliance with or submit test reports of testing conducted to a 'comparable standard'. If the comparable standard is used the following must be provided:

- Name and version of comparable standard;
- A copy of the standard, or the particular relevant section(s) of the standard, describing the pertinent limits and test procedures; and
- An explanation of why this alternate standard is comparable to the standard identified in the LRF SOW/Specification.

1.3 The Technical Evaluation Team will evaluate the submitted information to determine if the comparable standard is acceptable and if the LRF requirement has been met. If the standard submitted is not acceptable to the Technical Evaluation Team, the response submitted will be deemed technically non-compliant.

2. MANDATORY REQUIREMENTS

2.1 Bidder technical responses must include the information required for each mandatory requirement according to the method identified in the "Compliance Method" column. The following methods used in the "Compliance Method" column define the minimum information required in the bidder response for each mandatory requirement:

a. Test: For each mandatory requirement where "Test" is identified in the "Compliance Evaluation Method" column, provide a summary of testing conducted and actual results achieved that confirm compliance with qualification testing or acceptance testing. Test results must have originated from formal tests conducted. Complete Test Reports, including test procedures for tests conducted on the equipment offered shall be made available to DND upon request.

b. Certification: By exception, a "Certification" may be accepted instead of a test report if it is not possible to provide a copy of a test report with the bid submission. A certification must be signed by an authorized officer, and must:

- Indicate the standard / specification to which the testing was conducted;
- Indicate when and where and by which organization the testing was conducted;
- State that the testing was successful in accordance with the referenced standard / specification; and
- State the reason why the test report could not be provided;

c. Specification Data: For each mandatory requirement where "Specification Data" is identified in the "Compliance Substantiation Method" column, provide the formal product specification data to confirm that the equipment offered fully complies with the requirement. Specification data can include, where appropriate, such formal documentation as Maintenance Manuals or User Guides. Specification data does not include references to web sites;

d. Compliance Statement: For each mandatory requirement where "Compliance Statement" is identified in the "Compliance Substantiation Method" column, provide a written statement in the Technical Response, complete with supporting/amplifying information (e.g. pictures / video clips), to clearly indicate compliance with the requirement; and

e. Analysis: Analysis is an element of verification that utilizes established technical evaluation or mathematical models or simulations, algorithms, calculations, charts, graphs, representative data, or other scientific principles and procedures to provide evidence that stated requirements are met.

2.2 If any of the mandatory requirements are not complied with, due to insufficient detail / information provided or because the information is not in accordance with the indicated "Compliance Substantiation Method", then the bidder's proposal will be deemed non-compliant and given no further consideration.

The Bidders' proposal must provide sufficient details to demonstrate compliance to all mandatory requirements. All criteria are mandatory and it is recommended that the Bidders' proposal follow a logical sequence for ease of evaluation.						
Bidder Information						
Bidder Name						
Proposal Date						
Proposed Equipment						
SOW / Spec	Requirement	Compliance Method	Proposal Reference	Compliant (Yes/No)	Remarks	
SOW para 1.4	<u>Non-Developmental Item</u> . DND does not intend to fund a developmental project to achieve this requirement. It is therefore a mandatory requirement that the offered Hand-held Laser Range Finder be of proven (tested) design, be in current production or have been within the past 12 months, and be in-use by a North Atlantic Treaty Organization (NATO) or American, British, Canadian, Australian, and New Zealand (ABCANZ) member armed forces.	Compliance Statement				
SOW para 2.1	<u>Laser Range Finder Performance</u> . The offered LRF must meet all characteristics detailed in Annex B "Laser Range Finder System Specification".	Compliance Statement				
SOW para 2.2	<u>Laser Hazard Assessment Documentation</u> . The Contractor must provide a detailed laser hazard assessment to the DND Technical Authority (TA) within 30 days of contract award. The laser hazard assessment must, as a minimum, outline the operating characteristics of Nominal Ocular Hazard Distance (NOHD), Extended Nominal Ocular Hazard Distance (ENOHD), Maximum Permissible Exposure (MPE) and related laser hazards and preventative measures for training and operations. Any calculations must be referenced to the ANSI standard for laser safety. The Contractor must support validation of the LRF with the Canadian Air Force Safety Centre and National Defence Laser Safety Office. Support is anticipated to be in the form of technical literature.	Compliance Statement				

SOW para 2.3	<p><u>Acceptance Criteria.</u> Formal acceptance of the LRFs will be based upon certification by the Manufacturer's Quality Assurance program that all existing manufacture and inspection criteria have been met and that the LRF components meet all form, fit and function requirements as per the manufacturer's performance specifications (Factory QA). The Contractor must produce a Certificate of Conformity (CoC) for each delivered LRF. A copy of the CoC must be included with each delivered LRF and a PDF copy must be sent to the DND Technical Authority (TA).</p>	Compliance Statement			
SOW para 2.4	<p><u>Equipment Identification.</u> Bilingual (English/French) identification labels/plates must be affixed to each LRF in accordance with Canadian Forces Standard D-02-002-001/SG-001, Identification Marking of Canadian Military Property.</p>	Compliance Statement			
SOW para 2.5	<p><u>Operators Manual.</u> Each LRF must be furnished with a bilingual, English and French, Operator's manual, which contains illustrated operating, preventive and user maintenance, and related safety instructions. The manual may be in contractor or commercial format. Although it is preferred that this manual contain both the English and French text, it is acceptable if separate documents (one in English and the other in French) are provided. A digital copy in searchable PDF format must be provided to the DND TA no later than 120 days after contract award. Canada must have the right to translate and reproduce, for government purposes, all or any part of the Operators Manual supplied with the equipment delivered under the Contract.</p>	Compliance Statement			
SOW para 2.6	<p><u>Quick Reference Guide.</u> Each LRF must be furnished with a bilingual, English and French, quick reference guide (QRG) that contains the basic instructions necessary for LRF usage. This QRG must be printed on weather resistant material. Although it is preferred that this QRG contain both the English and French text, it is acceptable if separate documents (one in English and the other in French) are provided.</p>	Compliance Statement			
SOW para 2.7	<p><u>Parts Breakdown Document.</u> The Contractor must provide an LRF parts top down-breakdown with illustrations in the contractor's format that shows contractor's part numbers and quantity per equipment for each item. This parts breakdown must be provided to the DND TA no later than 120 days after contract award.</p>	Compliance Statement			

SOW para 2.8	<p><u>Initial Spare Parts List:</u> The Contractor must provide a recommended list of initial spare parts to support the LRFs for a period of 2 years of use. The spares list must be based on the support of the firm quantity of LRFs. The spare parts list must be delivered to the DND TA no later than 90 days after contract award. The spare parts list must be annotated with manufacturer's part number, NATO stock number (where available), proposed quantity, unit price and extended price for each recommended spare part. If items are not catalogued with NATO Stock Numbers, the contractor must provide the necessary technical data (drawings) to allow DND to catalogue all spare parts. Upon contract award, Canada will determine what spares will form part of the spares procurement listed in Annex C, Basis of Payment. From time to time, there might be a necessity to modify this list and add or delete items as deemed necessary.</p>	Compliance Statement		
SOW para 2.9	<p><u>Operator Training Course:</u> The Contractor must provide an instructor training course to "train-the-trainers", to be conducted at the Combat Training Center, Canadian Forces Base Galetown, New Brunswick, Canada for a total of 10-15 students. The training course must be provided in the English language.</p>	Compliance Statement		
SOW para 2.9.1	<p>The duration of the course must not exceed 2 days. A proposed course outline indicating major teaching points, time allocation, reference material and required resources, must be submitted for DND's approval no later than 60 days after contract award.</p>	Compliance Statement		
SOW para 2.9.2	<p>The course must be comprised of classroom theory and field practical portions. A copy of the LRF student course material must be provided to each of the students and one copy must be provided to the DND TA. One digital copy of the instructor's course training material in Microsoft Office format must be delivered to DND TA upon completion of the course.</p>	Compliance Statement		
SOW para 2.9.3	<p>The course must be conducted no earlier than 30 days after the first delivery of any LRFs and at a date and time agreed upon by the TA and the contractor.</p>	Compliance Statement		
SOW para 2.10	<p><u>Optional Operator Training Course:</u> The Contractor must provide up to 10 additional Operator Training Courses at various locations across Canada. Specific locations will be detailed after optional LRF quantities have been exercised by Canada. Except for the location, optional courses must be based on the requirements detailed at Para 2.9.</p>	Compliance Statement		

SOW para 2.11	Contractor Support and Repair. The Contractor must guarantee, in writing, a capability to support and repair non-serviceable LRFs for a period of at least 10 years after final delivery of all LRFs.	Compliance Statement		
SOW para 2.12	Interface Control Documents. There is a requirement to integrate the LRF with the Integrated Soldier System Suite after contract award. The Contractor must provide the hardware and software Interface Control Documents in sufficient detail to the DND TA and to Canada's Soldier System Contractor for integration purposes only, including, but not limited to, the data nature and type available via interface. The Interface Control Documents must be provided to the DND TA no later than 30 days after contract award (or mutually agreed upon date). Each LRF kit must include the following items:	Compliance Statement		
Spec para 4.1	Each LRF kit must include the following items:	Compliance Statement		
Spec para 4.1.1	Laser Range Finder;	Compliance Statement		
Spec para 4.1.2	a soft field carrying case;	Compliance Statement		
Spec para 4.1.3	night vision adapter;	Compliance Statement		
Spec para 4.1.4	cleaning supplies (i.e. microfiber cloth or lens paper and lens cleaning solution);	Compliance Statement		
Spec para 4.1.5	a Operators Manual and a Quick Reference Guide;	Compliance Statement		
Spec para 4.1.6	battery (ies).	Compliance Statement		
Spec para 5.1	The LRF must incorporate daytime optics, a laser range finder, a digital compass and an inclinometer.	Compliance Statement		
Spec para 5.2	The LRF laser must be a Class I, eye safe laser.	Analysis		
Spec para 6.1	LRF daytime optics performance characteristics:			
Spec para 6.1.1	The field of view must be at least 100 mils;	Specification Data		
Spec para 6.1.2	The magnification must be at least 6X, but must not exceed 8X;	Specification Data		
Spec para 6.1.3	A reticle must be provided that incorporates marked graduations every 5 mils for a minimum of 100 mils horizontal and 50 mils vertical; and	Specification Data		
Spec para 6.1.4	The eyepiece(s) must have diopter adjustment of at least +2 to -4 diopters.	Specification Data		

Spec para 6.2	LRF laser performance characteristics:			
Spec para 6.2.1	The LRF must be fully operational within 2 seconds of powering on;		Specification Data	
Spec para 6.2.2	The LRF must range stationary and moving targets providing diffuse reflections at ranges between 25 meters and 5,000 meters under conditions of unlimited visibility;		Specification Data	
Spec para 6.2.3	The LRF must discriminate between a minimum of two targets along the same line-of-sight where range separation is 50 meters or greater;		Specification Data	
Spec para 6.2.4	The LRF laser axis must be collimated (often referred to as bore sighted) to the optical axis of the daytime optics. Collimation between the transmitted laser beam axis and the daytime optics axis must be maintained over the full range of use and environmental conditions without operator correction; and		Compliance Statement	
Spec para 6.2.5	The LRF maximum range error must not exceed +/-5 meters over the full range of the range finding capability.		Specification Data	
Spec para 6.3	LRF digital compass and internal inclinometer performance characteristics:			
Spec para 6.3.1	The digital compass must provide means to compensate for the local magnetic declination to an accuracy of 1 mil or less;		Specification Data	
Spec para 6.3.2	The bearing error of the digital compass must not exceed +/-10 mils;		Test	
Spec para 6.3.3	The angle of site error of the internal inclinometer must not exceed +/- 5 mils; and		Test	
Spec para 6.3.4	The internal inclinometer must provide angles of inclination readings between at least +/- 800 mils.		Specification Data	
Spec para 6.4	LRF System performance characteristics:			
Spec para 6.4.1	The LRF must provide the operator a digital readout of range, bearing and angle of site;		Specification Data	
Spec para 6.4.2	The LRF must display range readings in meters and bearing and angle of site readings in mils;		Specification Data	
Spec para 6.4.3	The LRF must display all pertinent data, including range, bearing, angle of site and menus through the eyepiece to allow the operator to receive information while maintaining observation on a target;		Compliance Statement	
Spec para 6.4.4	The LRF must measure the direction and distance between two points and provide this information to the operator;		Compliance Statement	
Spec para 6.4.5	The LRF must determine fall-of-shot corrections for artillery rounds and must display these corrections to the operator through the eyepiece;		Compliance Statement	

Spec para 6.4.6	If calibration of the digital compass is required, the LRF must inform the user of successful/unsuccessful calibration attempts;	Compliance Statement		
Spec para 6.4.7	The LRF must interface with a tripod that utilizes a standard ¼ inch thread connection;	Compliance Statement		
Spec para 6.4.8	The LRF must include the optical/mechanical interface to allow it to be used with the in-service AN/PVS-14 night vision goggles;	Compliance Statement		
Spec para 6.4.9	The LRF must output information via an RS-232 ports. Format and interface protocols must be compatible with the electrical interface standard defined in ICD-GPS-153; and	Compliance Statement		
Spec para 6.4.10	The LRF must be provided with Bluetooth capability. If not embedded, the Bluetooth accessory must be attached directly to the LRF without cables and additional power source. The Bluetooth must be able to be disabled by the user to provide a radio silence mode. The Bluetooth setting (enabled or disabled) must not automatically change with on/off power cycles nor with battery replacement.	Compliance Statement		
Spec para 6.5	LRF Power performance characteristics;			
Spec para 6.5.1	The LRF must use batteries that are readily available on the commercial market and that are not a product that is unique to the Original Equipment Manufacturer (OEM);	Compliance Statement		
Spec para 6.5.2	The LRF must provide at least 3000 laser range measurements at +20° C without replacing the battery(ies);	Analysis		
Spec para 6.5.3	The LRF must provide a visual indicator that warns the user when the battery(ies) are getting low; and	Specification Data		
Spec para 6.5.4	The battery(ies) must be replaceable by the user without the need for special tools.	Compliance Statement		
Spec para 7.1	The LRF must not be larger than 15 cm x 11 cm x 6 cm.	Specification Data		
Spec para 7.2	The LRF with battery(ies) installed, but minus carrying case, must not weigh more than 0.5 Kg.	Specification Data		
Spec para 7.3	The LRF must be constructed with materials that can withstand exposure to common substances (including petroleum, oil, lubricants, insect repellent, camouflage creams, decontaminants, salt water and spray, alcohol and body oils) without degradation of its capabilities.	Compliance Statement		
Spec para 7.4	The construction of the LRF must not require the use of any Polychlorinated Biphenyls.	Compliance Statement		

Spec para 7.5	The LRF must include the mechanical interface to allow connection to a personal computer using a USB type connection.	Compliance Statement		
Spec para 7.6	The LRF must include the mechanical interface to allow connection to the in-service Defense Advanced Global Positioning System Receiver (DAGR) units.	Compliance Statement		
Spec para 7.7	The exterior of the LRF must be finished primarily with a matt, dark-coloured material or paint.	Compliance Statement		
Spec para 7.8	Exposed metal surfaces must be provided with a chemical finish that is corrosion resistant.	Compliance Statement		
Spec para 7.9	The LRF must be provided with a Field Carrying Case that is a semi-rigid or soft design using commercially available heavy duty, water and mildew resistant fabric. The fabric must be a flat, dark color. The Field Carrying Case must carry the LRF, the quick reference guide and any provided ancillary items internally.	Compliance Statement		
Spec para 7.10	The LRF must be manufactured and inspected in accordance with an approved ISO9000 or equivalent quality inspection system to assure adherence to required performance, quality and workmanship standards.	Compliance Statement		
Spec para 8.1	The LRF must have been tested in accordance with MIL-STD-810G or equivalent for the following environmental conditions:			
Spec para 8.1.1	High Temperature, Operating – The LRF must meet all performance criteria listed at paragraph 6 at temperatures up to +63° C;	Test		
Spec para 8.1.2	Low Temperature, Operating – The LRF must meet all performance criteria listed at paragraph 6 at temperatures down to –35° C;	Test		
Spec para 8.1.3	High Temperature, Storage – Within its operating temperature limits, the LRF must meet all performance criteria listed at paragraph 6 after storage at temperatures up to +85° C;	Test		
Spec para 8.1.4	Low Temperature, Storage – Within its operating temperature limits, the LRF must meet all performance criteria listed at paragraph 6 after storage at temperatures down to –40° C;	Test		
Spec para 8.1.5	Immersion – The LRF must not show any signs of water ingress and suffer no degradation in performance after submersion in water for 3 minutes at a depth of 1.0 meter; and	Test		
Spec para 8.1.6	Additional Environmental Conditions – The LRF must also have undergone testing for vibration, shock, sand, dust, salt/fog, icing, humidity and rain.	Test		

Spec para 9.1	Identification Labels. Each LRF Unit must be provided with a serial number indelibly marked on an identification plate which must be permanently affixed to the LRF housing.	Compliance Statement			
Spec para 9.2	Safety Labels. Each LRF must include all Laser and Hazardous material safety labels as applicable.	Compliance Statement			