



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions/Travaux publics et Services
gouvernementaux Canada
See herein for bid submission
instructions/
Voir la présente pour les
instructions sur la présentation
d'une soumission
NA
Ontario

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 Dimmable Mini Reflex Sight	
Solicitation No. - N° de l'invitation W6448-21C064/B	Date 2021-01-15
Client Reference No. - N° de référence du client W6448-21-C064	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-519-8288	
File No. - N° de dossier KIN-0-54132 (519)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-02-17 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Choquette, Herb	Buyer Id - Id de l'acheteur kin519
Telephone No. - N° de téléphone (613) 449-8446 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CFB Petawawa	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services / Travaux publics et
services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

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

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Solicitation No. - N° de l'invitation
W6448-21C064/B
Client Ref. No. - N° de réf. du client
W3048-20-KH40

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54132

Buyer ID - Id de l'acheteur
KIN519
CCC No./N° CCC - FMS No./N° VME

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PART 1 - GENERAL INFORMATION

Reissue of Bid Solicitation

This bid solicitation cancels and supersedes previous bid solicitation number W6448-21C064/A dated January 14, 2021 with a closing of February 17, 2021 at 2:00 p.m. EST. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

1.1 Requirement

The Department of National Defence (DND) has a requirements for mini reflex sights that will allow operators to rapidly engage targets while using a variety of small arms. The system must provide the operators with a passive dimmable reticle that can be used with Night Vision Goggles. The system will be referred to as the Dimmable Mini Reflex Sight (DMRS). The Contract term will be from date of award to 31 March 2026.

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

1.4 epost Connect service

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The [2003](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Submission of Bids

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

PWGSC Ontario Region Bid Receiving Unit

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

TPSGC.oreceptiondessaoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca

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

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

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

2.3 Enquiries - Bid Solicitation

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

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

- Section I: Technical Bid
- Section II: Financial Bid
- Section III: Certifications
- Section IV: 3 Dimmable Mini Reflex Sights for DND Testing

Bids transmitted by facsimile or hardcopy will not be accepted.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

Bidders willing to accept payment of invoices by Electronic Payment Instruments must complete Annex E Electronic Payment Instruments to identify accepted Electronic Payment Instruments.

If Annex E Electronic Payment Instruments is not completed, it will be considered that Electronic Payment Instruments are not accepted for payment of invoices.

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

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

Section IV: 3 Dimmable Mini Reflex Sights for DND Testing

Bidders must not ship their Dimmable Mini Reflex Sights until they are asked to do so, by the Contract Authority. After the evaluation of the Bidder's Technical Bid, Bidders that are compliant with the Mandatory Technical Requirements will be informed by the Contract Authority where to ship their 3 Dimmable Mini Reflex Sights for DND Testing. After the DND Testing and the Field Trial their 3 Dimmable Mini Reflex Sights will be returned to the Bidders.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Phased Bid Compliance Process

4.1.1.1 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) Without prejudice to its other rights, Canada shall have the right, in its absolute discretion, but shall not be obliged, to request and accept any time, before or after the solicitation closing date, and consider as part of the Bid, any document and materials from Bidders to clarify the Bid or to correct deficiencies or errors in the Bid that are not significant in Canada's absolute discretion, including all matters of form or error in computation or failure to confirm by signing or similarly verifying acceptance. 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.
- d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2020-05-28) 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 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 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 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 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 Technical Evaluation

4.1.2.1 Mandatory Technical Criteria

Bidders must provide a technical Bid that demonstrates their proposed product meets or exceeds all mandatory technical criteria listed in Annex "E" or they will be considered non-compliant and will not receive any further consideration in the tender process. All Mandatory Technical Criteria are considered Eligible Mandatory Criteria.

4.1.2.2 DND Testing

After the evaluation of the Bidder's Technical Bid, Bidders that are compliant with the Mandatory Technical Requirements will be informed by the Contract Authority where to ship their 3 Dimmable Mini Reflex Sights for DND Testing. Upon receipt of the Bidder's 3 Dimmable Mini Reflex Sights, DND will test them using the procedures detailed in Annex "C". The compliance with the Mandatory Requirements will be verified and Bidder's Dimmable Mini Reflex Sights that do not comply with the Mandatory Requirements will receive no further evaluation. The Bidder's Dimmable Mini Reflex Sights that do comply with the Mandatory Requirements will be point rated as detailed in section 2 of Annex "F".

4.1.2.3 Point Rated Field Trial

Bidder's Dimmable Mini Reflex Sights that do comply with the Mandatory Requirements will be point rated as detailed in section 3 of Annex "F". Bidder's Dimmable Mini Reflex Sights that do not score the minimum 80% of the maximum available points for the point rated Field Trial will be considered non-compliant and will not be further evaluated. The Bidder's score from the Field trial will be divided by the maximum available score and multiplied by 25. This product will be added to the DND Testing Score to calculate the Bidder's Technical Score (which will be out of 70 points). After the DND Testing and the Field Trial their 3 Dimmable Mini Reflex Sights will be returned to the Bidders.

4.1.3 Financial Evaluation

4.1.3.1 Mandatory Financial Criteria

The Bidder must submit firm unit prices for all items in accordance with Annex D, in Canadian dollars, Harmonized Sales Taxes excluded, DDP Ottawa Incoterms 2010, transportation costs included, all applicable Customs Duties and Excise taxes included.

4.3.2. Evaluation of Pricing

The Contractor's Unit Price will be multiplied by the actual or estimated quantity for all items of Annex D to calculate the Extended Unit Pricing. The Contractor's Evaluated Price is the sum of the Contractor's Extended Unit Pricing for all items and all pricing periods.

4.2 Basis of Selection

4.2.1 Basis of Selection - Determination of Best Value for Canada

The Contractor's Point Rated Score (from the DND Test and the Field Trial) will be the Technical Value.

The lowest evaluated price of all compliant Contractors will be divided by the Contractor's evaluated price and multiplied by a weighting factor of 30 to calculate the Financial Value.

The Contractor's Financial Value and the Technical Value will be added to calculate their Total Value. The Contractor with the highest Total Value will be considered the Best Value and will be recommended to receive a contract amendment(s) should any of the options be exercised.

4.2.2. Example of Value Calculation

The table below illustrates an example of how the selection of the Supplier is determined by a 70/30 ratio of Technical Value and Financial Value, respectively. The lowest Evaluated Price of all compliant Bidders is \$3,500,000.

In this example Bidder 2 would be recommended for Contract award.

	Bidder 1	Bidder 2	Bidder 3
Bidder's Evaluated Price	\$6,1000,000	\$4,400,000	\$3,500,000
Technical Value	65	68	50
Calculation of Financial Value	$30 * \$3,500 / \$6,100 = 17.21$	$30 * \$3,500 / \$4,400 = 23.86$	$30 * \$3,500 / \$3,500 = 30$
Total Value	82	91.86	80
Overall Ranking	2nd	1 st (Best Value)	3rd

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the Requirement at Annexes "A" & "B".

6.2.1 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods, at Annexes "A" & "B" of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment. The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

[2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from contract award to 31 March 2026

6.4.2 Delivery Date

All the deliverables in Table 1 of Annex "D" must be received by 31 March 2021.

6.4.3 Delivery Location

The equipment must be delivered to Department of National Defence Petawawa, Ontario.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Herb Choquette
Title: Supply Team Leader
Public Services and Procurement Canada
Acquisitions Branch
Address: 86 Clarence Street, 2nd Floor
Kingston, Ontario, K7L 1X3
Telephone: 613-449-8446
Facsimile: (613) 545-8067
E-mail address: Herb.Choquette@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.

6.5.2 Project Authority

The Project Authority for the Contract is: **[To be added into Contract by PSPC]**

Name: _____
Title: _____
Organization: _____
Address: _____

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

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

6.5.3 Contractor's Representative

General enquiries:

Name: _____
Title: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

Delivery follow-up:

Name: _____
Title: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment – Firm Unit Prices

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

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

6.6.2 Single Payments

SACC Manual clause [H1000C](#) (2008-05-12) Single Payment

6.6.3 Taxes - Foreign-based Contractor (if applicable)

SACC Manual clause [C2000C](#) (2007-11-30) Taxes - Foreign-based Contractor

6.6.4 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Technical Specification DRMS
- (e) Annex D, Basis of Payment;
- (f) Annex I, Non-Disclosure Agreement; and
- (g) the Contractor's bid dated _____.

6.11 Insurance - No Specific Requirement

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.

6.12 Inspection and Acceptance

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

6.13 Non-disclosure Agreement

The Contractor must obtain from its employee(s) or subcontractor(s) the completed and signed non-disclosure agreement, attached at Annex I, and provide it to the [Project](#) Authority before they are given access to information by or on behalf of Canada in connection with the Work.

6.14 Defence Contract

SACC Manual clause A9006C (2012-07-16), Defence Contract

ANNEX "A", REQUIREMENT

1.0 GENERAL

1.1 Scope

The purpose of this Statement of Requirement (SOR) is to define the scope and requirements that apply to the delivery of Military off the Shelf Mini Dimmable Reflex Sight (DMRS).

1.2 Background

The Department of National Defence (DND) has a requirements for mini reflex sights that will allow operators to rapidly engage targets while using a variety of small arms. The system must provide the operators with a passive dimmable reticle that can be used with Night Vision Goggles. The system will be referred to as the Dimmable Mini Reflex Sight (DMRS).

1.3 Acronyms and Abbreviations

CDRL	Contract Data Requirements List
DID	Data Item Description
DMRS	Dimmable Mini Reflex Sight
DND	Department of National Defence
EEA	Equipment Environmental Assessment
IAW	In Accordance With
NATO	North Atlantic Treaty Organisation
NVG	Night Vision Goggles
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
RSPL	Recommended Spare Parts List
SOR	Statement of Requirement
SOW	Statement of Work
TA	Technical Authority

1.4 Applicable Documents

1.4.1 References

- 1.4.1.1 Whereas mentioned, the following Standards must be used for the preparation of deliverables to the extent specified in this SOR.

GOVERNMENT FURNISHED INFORMATION at <http://publications.mil.ca/pod/pubs/pubSearch.jsp>

<u>REFERENCE NUMBER</u>	<u>PROMULGATION DATE</u>	<u>REFERENCE TITLE</u>
D-01-100-214/SF-000	2002-05-01	SPECIFICATION FOR PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN FORCES EQUIPMENT

COMMERCIALY AVAILABLE

<u>REFERENCE NUMBER</u>	<u>PROMULGATION DATE</u>	<u>REFERENCE TITLE</u>
SOR/2012-285	N/A	PROHIBITION OF CERTAIN TOXIC SUBSTANCES REGULATIONS
MIL-HDBK-61B	2020-04-07	DEPARTMENT OF DEFENSE HANDBOOK: CONFIGURATION MANAGEMENT GUIDANCE
IEC 60529	N/A	DEGREES OF PROTECTION PROVIDED BY ENCLOSURES - IP CODE

1.4.2 Order of Precedence

- 1.4.2.1 In the event of conflict between the content in this SOR and the referenced documents, the content of this SOR will take precedence.

2.0 **TECHNICAL REQUIREMENTS**

- 2.1 The Contractor must comply with all specified requirements for each component of the DMRS, stated in:

- 2.1.1 ANNEX B, TECHNICAL SPECIFICATIONS FOR THE DIMMABLE MINI REFLEX SIGHT.

3.0 **DELIVERABLES**

3.1 Product Deliverables

3.1.1 The Contractor must deliver to Canadian Forces Base Petawawa, Ontario,

3.1.1.1 Quantity 700 DMRS;

3.1.1.2 With each DMRS:

3.1.1.2.1 Hard Transport case;

3.1.1.2.2 One set of disposable batteries;

3.1.1.2.3 Instruction Manual (see para 3.3 for details);

3.1.1.2.4 Mounting adapters (if applicable); and

3.1.1.2.5 Special tools and test equipment (if applicable).

3.1.2 The delivered DMRS must be equivalent to or better than those provided for the bid evaluation.

3.2 Contractor Kick-Off Meeting

3.2.1 The Contractor must hold a contract kickoff meeting at its production facility or by teleconference, as arranged with the Procurement Authority, within two (2) weeks of Contract Award. This meeting will be used to introduce the DND project team and to discuss production timelines, Quality Assurance processes, and delivery options and locations. DND will be responsible for all travel and associated costs for DND personnel attending the meeting.

3.3 Instruction Book

3.3.1 The Contractor must provide hard copy and portable document format Instruction Manuals in English; and

3.3.2 The Instruction Manual must include illustrated operating, preventive & user maintenance and safety instructions.

3.4 Quality Assurance

3.4.1 The Contractor must:

3.4.1.1 Establish, implement, document and maintain a quality system that ensures conformance to contractual requirements and meets the requirements of the International Standards Organization 9001 or equivalent quality system model during performance of this contract; and

3.4.1.2 Conduct Quality Conformance Inspections and Tests during manufacture In Accordance With (IAW) the Contractor's standard acceptance test plan. Details of the test plan, and documentation of all inspections/tests, are to be provided to DND upon request.

3.4.2 Configuration Management

- 3.4.2.1 The Contractor must have an established, DND verifiable, Configuration Management Program with control systems in place IAW MIL-HDBK-61A, and must provide configuration identification, control and status accounting of all new and/or modified hardware, firmware, software and documentation. All DMRS System components delivered must have the same product baseline and support interchangeability/interoperability of parts. The established product baseline must be maintained during repair and any deviation from the baseline must be approved in advance by the Technical Authority (TA).

3.5 Cataloguing Information

- 3.5.1 The Contractor must provide cataloguing information for the DMRS and components of the system identified within Paragraph 3.1.1.2.

- 3.5.1.1 The Contractor must provide Cataloguing Data for TA approval IAW Contract Data Requirements List (CDRL) DMRS-001 at Appendix A1.3 and its associated Data Item Description (DID) DMRS-001 at Appendix A2.3 to this ANNEX A.

3.6 Spare parts

- 3.6.1 The Contractor must provide a Manufacturer's Recommended Spare Parts List (RSPL) to support the DMRS for a period of 5 years. The TA, after revision of the Recommended Spare Parts List, will determine which parts are to be ordered and in what quantities. All spares from the RSPL will be ordered on an "as requested basis".

- 3.6.1.1 The Contractor must provide a Manufacturer's Recommended Spare Parts List for TA approval IAW CDRL DMRS-002 at Appendix A1.4 and its associated DID DMRS-002 at Appendix A2.4 to this ANNEX A.

3.7 Environment and Hazardous Material

- 3.7.1 The Bidder must ensure that substances listed under Prohibition of Certain Toxic Substances Regulations (SOR/2012-285) are not incorporated in any part of the equipment.

- 3.7.2 The Contractor must prepare and submit an Equipment Environmental Assessment (EEA) for TA approval IAW with CDRL DMRS-003 at Appendix A1.5 and its associated DID at Appendix A2.5 The EEA evaluates the potential risks to the environment during the operation, maintenance and disposal of the equipment. Technical documents must include appropriate warnings and instructions to mitigate these risks. The EEA must include Safety Data Sheets (SDS) that are less than three years old for all Chemical Products IAW WHMIS 2015 requirements. The Contractor may provide confidential information in a separate document. Note: Proprietary information will be treated with confidentiality.

3.8 Warranty

- 3.8.1 The Contractor must provide warranty on the DMRS against material defects and workmanship, including parts and labor, at no additional cost to DND IAW the Contractor's standard warranty provisions (minimum one (1) year). During the warranty period, the Contractor must provide a replacement asset if a failed DMRS cannot be repaired and returned to DND within 90 days.

APPENDIX A1, CONTRACT DATA REQUIREMENTS LIST

A1.1. CDRL List Acceptance

CDRL #	Title	DID #
DMRS-001	Cataloguing Data	DMRS-001
DMRS-002	Recommended Spare Parts List	DMRS-002
DMRS-003	Environment and Hazardous Material	DMRS-003

A1.2. CDRL Table Definitions

The following section defines the various blocks of information found on the CDRL forms:

BLOCK 1 – SYSTEM / ITEM

Provides the name of the System or Item for which the CDRL applies.

BLOCK 2 – ITEM NUMBER

The Item Number is a sequential three-digit number to uniquely identify the individual data item (CDRL number).

BLOCK 3 - TITLE OR DESCRIPTION OF DATA

The title of the data item being referred to in this CDRL.

BLOCK 4 - AUTHORITY (DATA ITEM NUMBER)

Indicates the Data Item Description (DID) number to which this CDRL refers.

BLOCK 5 - CONTRACT REFERENCE

The specific paragraph number of the Contract Demand, Statement of Work, Request for Proposal, Specification, or other applicable document to assist in identifying the work effort associated with the data item.

BLOCK 6 - FREQUENCY

This block indicates the frequency of the delivered data. The following frequency codes are used:

ASGEN As generated

ONE/R One time with revisions

BLOCK 7 – REQUIRING OFFICE

Identifies the technical office of primary interest responsible for defining the data requirement, reviewing, acceptance and approval of the data item, and ensuring the adequacy of the delivered data.

BLOCK 8 – SUBMISSION SCHEDULE

DATE OF 1ST SUBMISSION - The initial submission date or associated constraint for the 1st submission of the data item is indicated in this block using typical abbreviations as listed above under Block 11.

DATE OF SUBSEQUENT SUBMISSION / EVENT - The date(s) of subsequent submission(s) or associated constraint(s) of the data item is indicated in this block.

BLOCK 9 - DISTRIBUTION AND ADDRESSEES

Indicates the addressees and the respective number of copies (hard copies and soft copies separately), for either the draft or first submissions (Sub-Block "Draft"), and for the final or subsequent submissions (Sub-Block "Final"), for which the data item is required.

A1.3. CDRL – Cataloguing Data

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Dimmable Mini Reflex Sight							
2. ITEM NUMBER CDRL DMRS-001	3. TITLE OR DESCRIPTION OF DATA Cataloguing Data		4. AUTHORITY (Data Item Number) DID -001				
5. CONTRACT REFERENCE SOW: Para. 3.5.1.1 DID: App. A2.3	6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND PMO				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Cataloguing Data for review by Canada no later than 14 calendar days following completion of the kick off meeting. Response Time: Comments on the draft Cataloguing Data will be provided by Canada no later than 14 calendar days after first submission of the Cataloguing Data. Subsequent Submission(s): The Contractor must provide a revised Cataloguing Data, addressing Canada's comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada's comments. Response Time: Comments or acceptance of the Cataloguing will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> .			9. DISTRIBUTION and ADDRESSEES scott.carter6@forces.gc.ca dean.hiscock@forces.gc.ca bruno.larose@forces.gc.ca				
			A. ADDRESS EE	B. COPIES			
				DRAFT		FINAL	
				Hard Copy	Soft Copy	Hard Copy	Soft Copy
			PSPC CA	0	1	0	1
			DND TA	0	1	0	1

A1.4. CDRL – Manufacturer’s Recommended Spare Parts List

CONTRACT DATA REQUIREMENTS LIST						
1. SYSTEM / ITEM Dimmable Mini Reflex Sight						
2. ITEM NUMBER CDRL DMRS-001	3. TITLE OR DESCRIPTION OF DATA Manufacturer’s Recommended Spare Parts List	4. AUTHORITY (Data Item Number) DID -001				
5. CONTRACT REFERENCE SOW: Para. 3.6.1 DID: App. A2.4	6. FREQUENCY ONE/R	7. REQUIRING OFFICE DND PMO				
8. SUBMISSION SCHEDULE First Submission: The Contractor must have provided a draft Manufacturer’s Recommended Spare Parts List for review by Canada with the Bid Evaluation Package. Response Time: Comments on the draft Manufacturer’s Recommended Spare Parts List will be provided by Canada no later than 14 calendar days after the kick off meeting. Subsequent Submission(s): The Contractor must provide a revised Manufacturer’s Recommended Spare Parts List, addressing Canada’s comments, for review and possible acceptance no later than seven 14 calendar days after receipt of Canada’s comments. Response Time: Comments or acceptance of the revised Manufacturer’s Recommended Spare Parts List will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . Note: The Contractor must provide a subsequent submission of the Manufacturer’s Recommended Spare Parts List if additional revisions or additions are required.		9. DISTRIBUTION and ADDRESSEES scott.carter6@forces.gc.ca dean.hiscock@forces.gc.ca greg.hatcher@forces.gc.ca				
		A. ADDRESS EE	B. COPIES			
			DRAFT		FINAL	
			Hard Copy	Soft Copy	Hard Copy	Soft Copy
		PSPC CA	0	1	0	1
DND TA	0	1	0	1		

A1.5. CDRL – Equipment Environmental Assessment

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Dimmable Mini Reflex Sight							
2. ITEM NUMBER CDRL DMRS-003	3. TITLE OR DESCRIPTION OF DATA Equipment Environmental Assessment		4. AUTHORITY (Data Item Number) DID DMRS-003				
5. CONTRACT REFERENCE SOW: Para. 3.7.2 DID: App. A2.5	6. FREQUENCY ASGEN		7. REQUIRING OFFICE DND PMO				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft EEA in English for review no later than 28 calendar days after the Kick-off Meeting. Response Time: Comments on the draft EEA will be provided by Canada no later than 21 calendar days after receipt of the <u>draft submission</u> . Subsequent Submission(s): The Contractor must provide a new EEA whenever a change to DMRS configuration occurs that has a direct effect on the EEA.			9. DISTRIBUTION and ADDRESSEES scott.carter6@forces.gc.ca dean.hiscock@forces.gc.ca				
			A. ADDRESS EE	B. COPIES			
				DRAFT		FINAL	
				Hard Copy	Soft Copy	Hard Copy	Soft Copy
			PSPC CA	0	1	0	1
			DND TA	0	1	0	1

APPENDIX A2, DATA ITEM DESCRIPTION

A2.1. APPENDIX:DATA Item List

DID #	Title	CDRL #
DMRS-001	Cataloguing Data	DMRS-001
DMRS-002	Recommended Spare Parts List	DMRS-002
DMRS-003	Environment and Hazardous Material	DMRS-003

A2.2. DID Table Definitions

The following section defines the various blocks of information found on the Data Item Description (DID) forms:

BLOCK 1 – TITLE

The title of the data item for the DID.

BLOCK 2 - IDENTIFICATION NUMBER

The Data Item Description (DID) number, consisting of a sequential two-digit number to uniquely identify the DID.

BLOCK 3 - DESCRIPTION

Provides a general description of the data content requirements.

BLOCK 4 – RELATED DOCUMENT(S)

Provides a listing of the related documents and specifications associated with and required to produce this DID.

BLOCK 5 - CONTRACT REFERENCE

The specific paragraph numbers from the Contract Statement of Work and CDRL to assist in identifying the work effort associated with the data item.

BLOCK 6 - PREPARATION INSTRUCTIONS

Provides the preparation instructions for the content and format requirements for the DID.

A2.3. DID – Cataloguing Data

DATA ITEM DESCRIPTION	
1. TITLE Cataloguing Data	2. IDENTIFICATION NUMBER DID DMRS-001
3. DESCRIPTION The Cataloguing data is used for input to the Department of National Defence Cataloguing System.	
4. RELATED DOCUMENTS D-01-100-214/SF-000	5. CONTRACT REFERENCE SOW: Para. 3.5.1.1 CDRL: App. A1.3
6 PREPARATION INSTRUCTIONS <p>6.1. CONTENT</p> <p>6.1.1. The Contractor must identify and provide the Cataloguing Data for the DMRS and the components identified within para 3.1.1.2 of Annex A.</p> <p>6.1.2. The Cataloguing Data must contain the following data fields Item name Manufacturer part number NATO Commercial and Government Entity OEM part number (if different than manufacturer's) NATO stock number (NSN) (If applicable) Expanded description</p> <p>6.2. GENERAL FORMAT</p> <p>6.2.1. The Cataloguing Data must be prepared as an MS Excel spreadsheet, formatted IAW D-01-100-214/SF-000.</p> <p>6.3. SOFT COPY FORMAT</p> <p>6.3.1. The Cataloguing must be provided as an MS Excel Spreadsheet file.</p> <p>6.3.2. Soft Copy format submission size below 7MB – The Cataloguing Data may be submitted via email as follows: 6.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.3.2.2. Subject Field: DMRS-001 – Cataloguing Data – [Rev #] – [Date of Issue]</p> <p>6.3.3. Soft Copy format submission size at or above 7MB - The RSPL file must be submitted on CD or DVD media and be labelled as follows: 6.3.3.1. Dimmable Mini Reflex Sight 6.3.3.2. Cataloguing Data; 6.3.3.3. DMRS-001; 6.3.3.4. The Revision number, and 6.3.3.5. The date of issue.</p>	

A2.4. DID - Manufacturer's Recommended Parts List

DATA ITEM DESCRIPTION	
1. TITLE Manufacturer's Recommended Spare Parts List (RSPL)	2. IDENTIFICATION NUMBER DID DMRS-001
3. DESCRIPTION The recommended spare parts list are all parts required for servicing, maintaining and repairing the DMRS. This list will be used to order parts for the remainder of the life of the DMRS.	
4. RELATED DOCUMENTS D-01-100-214/SF-000	5. CONTRACT REFERENCE SOW: Para. 3.6.1.1 CDRL: App. A1.4
6 PREPARATION INSTRUCTIONS	
6.4. CONTENT	
6.4.1. The Contractor must identify and provide the RSPL based on anticipated failures and repairs to be performed.	
6.4.2. The RSPL must contain the following data fields Item name Manufacturer part number NATO Commercial and Government Entity OEM part number (if different than manufacturer's) NATO stock number (NSN) (If applicable) Quantity per assembly Standard unit price Unit of issue Procurement and delivery lead time Mean time between failures Usage rate Shelf life Recommended buy quantity Expanded description	
6.5. GENERAL FORMAT	
6.5.1. The RSPL must be prepared as an MS Excel spreadsheet, formatted IAW D-01-100-214/SF-000.	
6.6. SOFT COPY FORMAT	
6.6.1. The RSPL must be provided as an MS Excel Spreadsheet file.	
6.6.2. Soft Copy format submission size below 7MB – The RSPL may be submitted via email as follows:	
6.6.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.	
6.6.2.2. Subject Field: DMRS-001 – Manufacturer's Recommended Spare Parts List Spares List – [Rev #] – [Date of Issue]	
6.6.3. Soft Copy format submission size at or above 7MB - The RSPL file must be submitted on CD or DVD media and be labelled as follows:	
6.6.3.1. Dimmable Mini Reflex Sight	

<p>6.6.3.2. Manufacturer's Recommended Spare Parts List;</p> <p>6.6.3.3. DMRS-001;</p> <p>6.6.3.4. The Revision number, and</p> <p>6.6.3.5. The date of issue.</p>

A2.5. DID – Equipment Environmental Assessment

DATA ITEM DESCRIPTION	
<p>1. TITLE</p> <p>Equipment Environmental Assessment (EEA)</p>	<p>2. IDENTIFICATION NUMBER</p> <p>DID DMRS-002</p>
<p>3. DESCRIPTION</p> <p>The EEA identifies and documents potential environmental impacts of the equipment and the associated mitigation measures required to reduce or eliminate them.</p>	
<p>4. RELATED DOCUMENTS</p> <p>SOR/2012-285</p>	<p>5. CONTRACT REFERENCE SOW: Para. 3.7.2</p> <p>CDRL: App. A1.5</p>

6 PREPARATION INSTRUCTIONS

6.1. GENERAL FORMAT

6.1.1. The EEA will be in the Contractor's format.

6.2. CONTENT

6.2.1. The EEA must contain the following sections and information, as a minimum:

6.2.1.1. Title Page

6.2.1.1.1. Equipment Name and NSN (if available); and

6.2.1.1.2. Assessment Contact: Name, title and company name of the author of the EEA.

6.2.1.2. Executive Summary

6.2.1.2.1. Provide a brief summary of potential environmental impacts and recommended mitigation measures for life-cycle phases such as (operation and maintenance and demilitarization and disposal).

6.2.1.3. Equipment Description

6.2.1.3.1. Equipment description: Provide an overview of the equipment and identify each major sub-system as per the Equipment Breakdown Structure.

6.2.1.3.2. For each major sub-system, identify the following:

6.2.1.3.2.1. Ionizing radiation sources (radioisotopes and x-ray). e.g. Uranium, Radon, plutonium and tritium etc.

6.2.1.3.2.2. Non-ionizing radiation sources (radiofrequency and lasers).

6.2.1.3.2.3. Identify toxic substances that are incorporated into the equipment design and provide additional information in tabular form in Annex A. Provide Safety Data Sheets SDS that are less than three years old for all Halocarbons identified.

6.2.1.4. Environmental Assessment

6.2.1.4.1. For each lifecycle phase (operation and maintenance and demilitarization and disposal) discuss the following:

6.2.1.4.1.1. Lifecycle activities: Describe anticipated activities and identify if any of these activities have the potential to: release a polluting substance to air, water or land (e.g. exhaust emissions, hazardous waste, spills, etc.); impact human health; noise or vibration; and/or alter landscape features. Note: The scope of the EEA excludes activities related to the use of munitions.

6.2.1.4.1.2. Environmental impacts: Describe the potential environmental impacts identified above.

6.2.1.4.1.3. Mitigation Measures: Describe mitigation measures to eliminate or reduce identified potential environmental impacts, including those that are part of the design, any warning devices, emission control equipment, spill response, safe handling and disposal procedures, training, labels on equipment, cautions and warnings in the Technical Documentation, monitoring or inspections, etc.

6.2.1.5. Conclusions and Recommendations

6.2.1.5.1. Summarize the main environmental impacts and recommended mitigation measures.

6.2.1.6. **References**

6.2.1.6.1. List references consulted in the completion of the EEA (such as Canadian legislation, DND policies and procedures, technical documentation, etc.).

Annex A – List of Toxic Substances in the equipment

Annex B – Safety Data Sheets SDS for the Halocarbons identified in the EEA.

Annex A - List of Toxic Substances and radiation sources in the Equipment

Toxic Substance	NSN	Original OEM Part Number	Item Description	Location	Additional Details
Arsenic, Beryllium, Cadmium, Chromium VI, Cobalt, Lead, Radioactive metals					
Batteries					Type
Halocarbons					Type and weight (kg). Global Warming Potential of Hydrofluorocarbons used for refrigerant applications.
Ionizing radiation					Type and quantity or activity level
Mercury and its compounds					Form of mercury (e.g. liquid, vapor) and weight (mg)
Non-ionizing radiation					Type of electromagnetic energy (i.e. microwave, radio frequency) and strength
Polychlorinated Biphenyl					Form (liquid or solid), quantity (kg), volume (L) and concentration in pp

Note: Provide information on the presence of metal, metal coatings, surface treatments, etc. that are used in the equipment design.

6.2.2. **Soft Copy format submission size below 7MB** – The RSPL may be submitted via email as follows:

6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.2.2.2. Subject Field: DMRS-001 – Manufacturer's Recommended Spare Parts List Spares List – [Rev #] – [Date of Issue]

6.2.3. **Soft Copy format submission size at or above 7MB** - The RSPL file must be submitted on CD or DVD media and be labelled as follows:

6.2.3.1. Dimmable Mini Reflex Sight

6.2.3.2. Manufacturer's Recommended Spare Parts List;

6.2.3.3. DMRS-001;

6.2.3.4. The Revision number, and

6.2.3.5. The date of issue.

ANNEX "B", TECHNICAL SPECIFICATIONS DMRS

1.0 GENERAL

1.1 Scope

This specification identifies the technical and performance specifications for the Dimmable Mini Reflex Sight (DMRS).

1.2 Applicable Documents

The following documents form part of this specification to the extent specified and are supportive of this specification when referenced; any other documents are considered supplemental information only. In the event of a conflict between the documents cited below and the contents of this specification, the contents of the specification take precedence.

1.2.1 **COMMERCIALLY AVAILABLE**

<u>REFERENCE NUMBER</u>	<u>PROMULGATION DATE</u>	<u>REFERENCE TITLE</u>
NATO AECTP 200	JAN 2006	ENVIRONMENTAL CONDITIONS
NATO STANAG 4694	MAY 2009	ACCESSORY RAIL

1.3 Acronyms and Abbreviations

DMRS	Dimmable Mini Reflex Sight
NATO	North Atlantic Treaty Organization
POA	Point of Aim
POI	Point of Impact

2.0 DMRS TECHNICAL SPECIFICATION

2.1 System Requirements

2.1.1 General requirements

- 2.1.1.1 The Dimmable Mini Reflex Sight (DMRS) must be based on fielded equipment that is in-service with another five (5) Eyes Nation Defence Force.
- 2.1.1.2 The DMRS should have been tested and have a “proven history” in delivering and supporting special operations applications and solutions, whereby “proven history” is defined by a delivery of no less than 50 DMRS that have been used with another 5 Eyes Nation Defence Force.
- 2.1.1.3 The DMRS reticle must have a centre dot reticle of 3.0 ± 0.5 Minutes of Angle.
- 2.1.1.4 The DMRS must be equipped with push button adjustable reticle brightness settings.
- 2.1.1.5 The DMRS lowest brightness setting must allow the reticle, target and target surroundings to be clearly visible through the sight while wearing Night Vision Goggles with a Gen III Tube and a Figure of Merit of 2376 under low light conditions.
- 2.1.1.6 The DMRS highest brightness setting must allow the reticle, target and target surroundings to be clearly visible under daylight conditions with the naked eye and when wearing eye protection with light transmissivity of at most 17%.
- 2.1.1.7 The DMRS must not inhibit normal operation of the weapon that it is mounted on.
- 2.1.1.8 The DMRS must be capable of being mounted on a NATO STANAG 4694 rail.
- 2.1.1.9 The DMRS must not require special tools to mount it on or dismount it from the rail.
- 2.1.1.10 The DMRS must be capable of being mounted on a Schweizerische Industrie Gesellschaft (SIG) P226 pistol slide, part number 226-1, 9, blk (i.e. with or without an adapter bracket).
- 2.1.1.11 There must be no permanent modifications (i.e. drilling, milling, etc.) to the pistol slide (e.g. manual removal of the rear iron sight from the dovetail is acceptable).
- 2.1.1.12 The DMRS, after being mounted and zeroed on the SIG pistol, must maintain a Point of Aim (POA) no greater than 14.6 cm from the Point of Impact (POI) when firing

ammunition at a target located at a range of 25 meters. This condition must be maintained when following the procedure of Section 3.1 of this ANNEX.

- 2.1.1.13 The DMRS, after being mounted and zeroed on the SIG pistol, should maintain a POA of less than 14.0 cm from the POI when firing ammunition at a target located at a range of 25 meters. This condition should be maintained without re-zeroing the DMRS after firing 5 series of 5 rounds.
- 2.1.1.14 The DMRS, after being mounted and zeroed on the SIG pistol, should maintain a POA of no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 25 meters. This condition should be maintained when following the procedure of Section 3.1 of this ANNEX.
- 2.1.1.15 The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, must maintain a POA no greater than 14.6 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition must be maintained when following the procedure of Section 3.1 of this ANNEX.
- 2.1.1.16 The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, should maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition should be maintained without re-zeroing the DMRS after firing 5 series of 5 rounds.
- 2.1.1.17 The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, should maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition should be maintained when following the procedure of Section 3.1 of this ANNEX.
- 2.1.1.18 The DMRS must be powered by commercially available three (3) Volt lithium ion batteries.
- 2.1.1.19 The DMRS must allow the batteries to be replaced without the use of special tools.
- 2.1.1.20 The DMRS batteries should be capable of being replaced without removing the DMRS from the weapon it is installed on.
- 2.1.1.21 While wearing OR™ Outdoor Research Firemark Sensor Gloves, the operator of the DMRS must be capable of full utilization of the DMRS including:
- 2.1.1.21.1 powering the device on and off;
 - 2.1.1.21.2 adjusting reticle brightness;
 - 2.1.1.21.3 zeroing the device (i.e. in azimuth and elevation);
 - 2.1.1.21.4 mounting the device on the pistol slide and rail; and
 - 2.1.1.21.5 dismounting the device from the pistol slide and rail.

2.1.1.22 The DMRS, while mounted on a weapon, must allow the operator to effectively set up the DMRS, acquire targets and engage targets while wearing standard operational duty kit including: combat dress, boots, helmet, ear and eye protection, night vision goggles, gas mask, communication gear, shooting gloves, load carrying vest and fragmentation vest.

2.1.1.23 The DMRS, while mounted on a weapon, should allow the operator maximum effectivity in setting up the DMRS, acquire targets and engage targets while wearing standard operational duty kit including: combat dress, boots, helmet, ear and eye protection, night vision goggles, gas mask, communication gear, shooting gloves, load carrying vest and fragmentation vest.

2.1.2 Physical Requirements

2.1.2.1 The DMRS must be non-reflective, have a matte finish and be black, tan or dark earth (green/brown) in colour.

2.1.2.2 The DMRS should be non-reflective, have a matte finish and be black or tan in colour.

2.1.2.3 The DMRS must have dimensions no larger than 60mm x 35mm x 35mm (length x width x height).

2.1.2.4 The DMRS must have a sight window size of no less than 350 mm² (e.g. 22 mm x 16 mm).

2.1.2.5 The DMRS must weigh no more than 55 grams with battery installed.

2.1.2.6 The DMRS should weigh no more than 35 grams with battery installed.

2.1.2.7 The DMRS must have a water ingress rating of at least an Ingress Protection (IP) code of 'X7' in accordance with International Electrotechnical Commission 60529 or equivalent.

2.1.3 Operational Requirements

2.1.3.1 The DMRS must be operable in the following temperatures and climatic conditions as defined by NATO AECTP 200: -20 °C, C1 (Basic Cold) to +40 °C, A1 (Extreme Hot Dry) inclusive and 0% to 100% humidity.

2.1.3.2 A single battery set must provide no less than 11 hours of continuous operation at the highest DMRS brightness setting at a temperature of 20 ± 2°C.

2.1.3.3 A single battery set should operate no less than 30 hours of continuous operation at the highest DMRS brightness setting at a temperature of 20 ± 2°C.

3.0 **DMRS Mounting and Unmounting Procedures**

3.1 The following procedure is to be used when mounting and unmounting the DMRS from a weapon:

- 1) fire a series of five rounds;
- 2) unmount the DMRS;
- 3) mount the DMRS, without re-zeroing; and
- 4) repeat steps 1 to 3 four more times.

ANNEX "C", DND TEST PROCEDURES

1.0 Scope

- 1.1 This Annex identifies the test procedures that will be executed to verify compliance with mandatory requirements and to determine the score of rated requirements that are being evaluated by DND Testing. Each test will be executed using each of the three (3) DMRS provided by the Bidder.

2.0 Resistance To Recoil Impulse Test – Pistol

2.1 Purpose

- 2.1.1 The purpose of this test is to determine the score of the following rated requirement:

The DMRS, after being mounted and zeroed on the SIG pistol, **should** maintain a POA of less than 14.0 cm from the POI when firing ammunition at a target located at a range of 25 meters. This condition should be maintained without re-zeroing the DMRS after firing 5 series of 5 rounds.

2.2 DND Test Procedures

- 2.2.1 See Appendix C3.1, DMRS Resistance To Recoil Impulse Test (Pistol).

2.3 Calculation of Rated Requirement Points

- 2.3.1 The points acquired will be based upon the distance between the point of aim and the mean point of impact of all rounds fired for each of the three (3) DMRS tested.

3.0 DMRS Removal and Replacement – Pistol

3.1 Purpose

- 3.2 The purpose of this test is to validate compliance of the following mandatory requirement and to determine the score of the rated requirement:

Mandatory Requirement

The DMRS, after being mounted and zeroed on the SIG pistol, **must** maintain a Point of Aim (POA) no greater than 14.6 cm from the Point of Impact (POI) when firing ammunition at a target located at a range of 25 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.

Rated Requirement

The DMRS, after being mounted and zeroed on the SIG pistol, **should** maintain a Point of Aim (POA) no greater than 14.0 cm from the Point of Impact (POI) when firing ammunition at a target located at a range of 25 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.

3.3 DND Test Procedure

3.3.1 See Appendix C3.1, DMRS Remove and Replace (Pistol).

3.4 Mandatory requirement Pass/Fail Criteria

3.4.1 In order to acquire a pass, all points of impact must be within 14.6 cm of the point of aim for each of the three (3) DMRS tested.

3.5 Calculation of Rated Requirement Points

3.5.1 The points acquired will be based upon the distance between the point of aim and the mean point of impact of all rounds fired for each of the three (3) DMRS tested.

4.0 DMRS Resistance To Recoil Impulse Test – C8

4.1 Purpose

4.1.1 The purpose of this test is to determine the score of the following rated requirement:

The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, **should** maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition should be maintained without re-zeroing the DMRS after firing 5 series of 5 rounds.

4.2 DND Test Procedure

4.2.1 See Appendix C3.1, DMRS Resistance To Recoil Impulse Test (C8).

4.3 Calculation of Rated Requirement Points

4.3.1 The points acquired will be based upon the distance between the point of aim and the mean point of impact of all rounds fired for each of the three (3) DMRS tested.

5.0 DMRS Removal and Replacement – C8

5.1 Purpose

5.1.1 The purpose of this test is to validate compliance of the following mandatory/rated requirements:

Mandatory Requirement

The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, **must** maintain a POA no greater than 14.6 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.

Rated Requirement

The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, **Should** maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.

5.2 DND Test Procedures

5.2.1 See Appendix C3.1, DMRS Remove and Replace (C8).

5.3 Mandatory Pass/Fail Criteria

In order to acquire a pass, all points of impact must be within 14.6 cm of the point of aim for each of the three (3) DMRS tested.

5.4 Calculation of Rated Requirement Points

5.4.1 The points acquired will be based upon the distance between the point of aim and the mean point of impact of all rounds fired for each of the three (3) DMRS tested.

Appendix C3.1, DND Test Procedures

1.0 Purpose

The purpose of this trial is to determine if there is movement of the dimmable miniature reflex sight (DMRS) when subjected to either a removal / replacement cycle or from recoil impulse. There will be a variety of DMRS units from several manufacturers.

Notes:

For each of the following tests, 3 units will be tested for each type and manufacturer. The DMRS units will be assessed on both the SIG – Sauer P226 and the Colt C8A3 platforms with current in service ammunition.

All ammunition used in the following procedures must be from the same lot and the lot acceptance test data (LAT) must be obtained from the manufacturer of the ammunition.

The calibration date of the Kestrel Model 5700 weather meter will be recorded.

1.2 Interpretation of collected data.

The test will gather mean points of impact, group sizes and group measurement in minutes of angle (MOA) data in order to measure any loss of accuracy or loss of precision.

The results for each set of three sample items tested in Part 2 will be averaged to obtain quantified measures of loss of accuracy and loss of precision for each model DMRS.

The results will be compared to precision and accuracy standard established in the precursor to DMRS items tests in Part 1.

The results will allow DND to determine valid performance requirements for DMRS.

Part 1: Determination of Accuracy and Precision Requirements (Manual Testing)

The following procedure (Part 1) will be used to determine the group size of a manually fired weapon from a skilled shooter both with iron sights and a DMRS. This procedure does not have to be done for each type of DMRS. This procedure serves two functions, firstly it provides an actual accuracy and precision standard for use in the statement of requirement section of the contracting documents. Secondly, it provides a comparison for the test set-up to verify whether the mounting system mimics real life performance. These procedures do not form part of the actual test of the DMRS rather they are a precursor to the test.

SIG – Sauer P226 Pistol:

These series of tests will be conducted at an indoor range at CFB Petawawa.

Iron sights (or laser)

The system must be tested and the error budget determined for the following combination of components; a skilled shooter, ammunition, weapon and iron sights.

Fix a properly identified QETE 1" grid test target (Figure 1) at 25 metres from the firing point. Record on the space provided on the target; test name, shooter identification, weapon type and serial#, ammunition lot, and local environmental conditions (location, temperature, humidity) using a Kestrel Model 5700 weather meter.

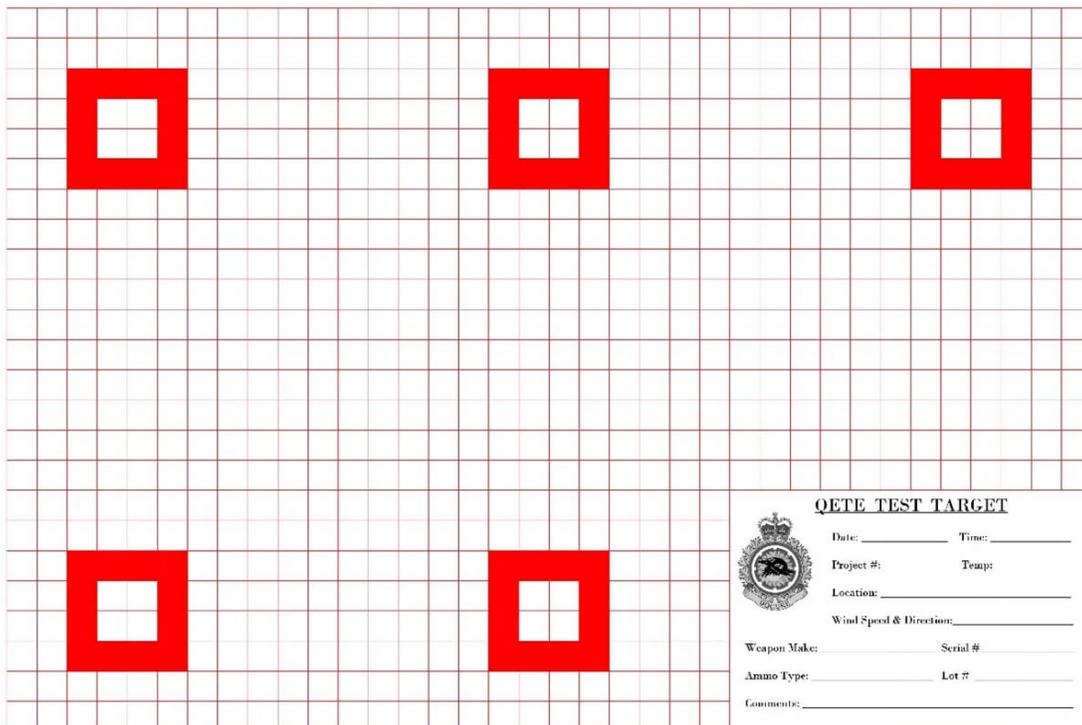


Figure 1 QETE test target, note five aiming points referred to in text.

Method

Using service ammunition, fire a series of ten 5 round groups, using a different aiming point on the target for each group (this will require two QETE test targets). Note if a laser is used in service use the laser, if iron sights are used alone, use the iron sights. Use the most stable shooting position commonly used in training and the same position must be used for all subsequent groups. Cool the weapon to the ambient temperature between groups. No time limit necessary.

The targets with the bullet impacts will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

DMRS

The system must be tested and the error budget determined for the following; a skilled shooter, DMRS, ammunition and weapon.

Method

Fix a properly identified QETE 1" grid test target (Figure 1) at 25 metres from the firing point. Record on the space provided on the target; test name, shooter identification, weapon type and serial#, DMRS serial #, ammunition lot, and local environmental conditions (location, temperature, humidity) using a Kestrel Model 5700 weather meter.

Using service ammunition, fire a series of ten 5 round groups, using a different target point for each group (this will require two QETE test targets). Use the most stable shooting position commonly used in training and the same position must be used for all subsequent groups. Cool the weapon to the ambient temperature between groups. No time limit necessary.

The targets with the bullet impacts will be photographed and the resulting images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement.

C8 A3 Carbine:

These series of tests will be conducted at an outdoor range at CFB Petawawa.

Iron Sights

The system must be tested and the error budget determined for the following combination of components; a skilled shooter, ammunition, weapon and iron sights.

Fix a properly identified QETE 1" grid test target (Figure 1) at 50 metres from the firing point. Record on the space provided on the target; test name, shooter identification, weapon type and serial#, ammunition lot, and local environmental conditions (location, temperature, humidity, wind speed and direction) using a Kestrel Model 5700 weather meter.

Do not conduct the tests if the sustained crosswinds exceed 15km/hour.

Method

Using service ammunition, fire a series of ten 5 round groups, using a different target location for each group. Course of fire will be conducted from a shooting bench using a Caldwell® Rock BR shooting support and rear support bag. Cool the weapon to the ambient temperature between groups. (Compressed air flowing through the action and barrel will greatly speed this process).

The targets with the bullet impacts will be photographed and the resulting images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement.

DMRS

The system must be tested and the error budget determined for the following; a skilled shooter, ammunition, weapon and DMRS.

Fix a QETE 1" grid test target (Figure 1) at 50 metres from the firing point. Record on the target the test name, shooter, weapon type and serial #, ammunition lot, DMRS serial # and local environmental conditions (location, temperature, humidity, wind speed and direction) using a Kestrel Model 5700 weather meter.

Do not conduct the tests if the sustained crosswinds exceed 15km/hour.

Mount the DMRS according to manufacturer's instructions and bore sight the weapon using either a bore spud mounted laser or an optical bore sighting device (depending upon visibility).

Method

Using service ammunition, fire a series of 5 round groups at 50 metres to further collimate the DMRS with the fall of shot using a different target point for each group. This course of fire will be conducted from a shooting bench using a Caldwell® Rock BR shooting support and rear support bag. Cool the weapon to the ambient temperature between groups. (Compressed air flowing through the action and barrel will greatly speed this process).

The targets with the bullet impacts will be photographed and the resulting images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

Part 2: Determination of Accuracy and Precision Requirements – Mounted Testing

This part of the procedure (Part 2) is broken down into six sections (three for the pistol and three for the carbine). The first section for the pistol and carbine involve setting up each weapon to ensure minimal weapon movement during testing. The subsequent sections involve assessing DMRS movement due to (a) recoil impulse and (b) removal/replacement of the DMRS.

SIG – Sauer P226 Pistol:

Experimental Set up - Verification

For each DMRS type to be assessed, the following method will be followed in order to ensure minimal movement of the pistol and mount system during testing:

The entire system must be tested and the error budget determined for the following; the mount (Ransom Rest® Master series pistol rest – Figure 2), lasers, bore laser, ammunition, weapon and sights. To accomplish this the following procedure will be followed;



Figure 2 – Ransom Rest® Master series pistol rest

Fix a QETE 1" grid test target (Figure 1) at 25 metres from the firing point. Record the test name, weapon type and serial #, ammunition lot, and temperature and humidity using a Kestrel model 5700 weather meter.

Secure the Ransom Rest® to a fixed, immovable shooting bench.

1. Fix a laser (Sure-fire® laser model TBD) to the mounting block provided on the ransom rest (determines potential movement of the rest).
2. Fix a laser (Crimson trace® laser model TBD) to the accessory rail on the pistol (determines potential movement of the pistol in the rest).
3. Using the appropriate SIG-Sauer P226 pistol specific insert, mount the pistol in the Ransom Rest®.
4. Align the laser on the rest onto the target and mark this location on the target. This witness mark need not be aligned with the other lasers and is just a reference for movement of the mount.
5. Align the pistol using the elevation and traverse mechanism on the rest on the first target point using a Mag Laser® model SL-150 affixed to a tapered bore spud placed in the pistol barrel. (This aligns bore to target point).
6. Align the laser mounted on the pistol rail to index with the laser in the weapon bore (aligns both lasers to target point). Mark these points on the target, these witness marks are used to tell if there is any movement of the pistol or the bore in relation to the pistol.
7. Using service ammunition fire a series of 5, 5 round groups, using a different target location for each group, to determine error budget of system. Cool the weapon to the ambient temperature between groups.
8. Between each subsequent five round group, check the lasers to determine if any movement of the mount or pistol has occurred. If the lasers have shifted more than one inch, readjust and tighten all adjustments and re-shoot the group.

Targets with the bullet impacts will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

DMRS Resistance to Recoil Impulse Test (Pistol)

This section is carried out in order to determine if the alignment of the DMRS with respect to the pistol can be maintained after repeated firing of the pistol. Three DMRS units of each type will be assessed.

Following the *Experimental Set up* of the pistol, fix a QETE 1" grid test target (Figure 1) at 25 metres from the firing point. Record the test name, weapon type and serial #, ammunition lot, DMRS serial # and temperature and humidity using a Kestrel model 5700 weather meter.

1. Mount the DMRS to the pistol according to the manufacturers' instructions. Torque fasteners to the specified value. In the absence of an indicated torque value use 20 inch pounds.
2. Align the DMRS onto the 2 laser dots on the target to align DMRS with the bore. (This aligns DMRS to target point).
3. The rest, weapon and DMRS are all aligned to the same point at a distance of 25 metres.
4. Use the pistol mounted laser to locate the firing position using the elevation and traverse mechanism on the Ransom Rest®.
5. Using service ammunition, fire 5 series of 5 rounds each at 5 separate target points. Use only the DMRS to determine the firing point not the lasers. Cool the weapon to the ambient temperature between groups.
6. Before and after firing each five round group, check the alignment of the lasers to determine if any movement of the mount, pistol or DMRS has occurred. If the mounted lasers have shifted more than one inch, readjust and tighten all adjustments and then re-shoot the group. Do not count the results if the mounted lasers have shifted more than one inch. If only the DMRS has shifted, include the results and keep shooting (do not adjust the DMRS).

Targets with the bullet impact marks will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

Procedural Note:

Once the resistance to recoil testing is complete for a given DMRS (3 units) proceed to the removal and replacement testing while the weapon is still mounted in the Ransom Rest® so that each DMRS has completed testing before moving on to the next.

Removal & Replacement Test (Pistol)

This section is carried out in order to determine if the alignment of the DMRS with respect to the pistol can be maintained after repeated removal and re-installation of the DMRS. Three DMRS units of each type will be assessed.

Following the *Experimental Set up* section and the *DMRS Resistance to Recoil Impact Test* section, fix a QETE 1" grid test target (Figure 1) at 25 metres from the firing point. Record the test name, weapon type and serial #, ammunition lot, DMRS serial # and temperature and humidity using a Kestrel model 5700 weather meter.

Use the pistol mounted laser to locate the new firing position using the elevation and traverse mechanism on the Ransom Rest® and realign the DMRS to the new firing position.

Fire 5 rounds at a target point then remove and re-install the DMRS. Perform this 5 times using new targets each time. Use only the DMRS to determine the firing point not the lasers.

Before and after firing the five round group, check the lasers to determine if any movement of the mount, pistol or DMRS has occurred. If the lasers have shifted more than one inch, readjust and tighten all adjustments re-shoot the group. Do not count the results if the mounted lasers have shifted more than one inch. If only the DMRS has shifted, include the results and keep shooting (do not re-zero the DMRS).

Targets with the bullet impact marks will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

C8 A3 Carbine:

Experimental Set up – Sighting In

Due to the greater mass and recoil energies related to the firing of rifles a mount analogous to the Ransom Rest® exists though it is not portable. Therefore the method for the rifle assessment will be different than that of the pistol but will gather substantially the same information albeit to a slightly lesser degree. For each DMRS type to be assessed the following method will be followed:

The test will be conducted on an outdoor range located at CFB Petawawa. The weapon (a Colt C8A3) will be fired from a fixed bench at a range of 50 metres. The weapon will be fired from a Caldwell® Rock BR pedestal mount (see Figure 3) and rear bag.



Figure 3 – Caldwell Rock BR – Pedestal Mount

Fix a QETE 1" grid test target (Figure 1) at 50 metres from the firing point. Record the test name, shooter ID, weapon type and serial #, ammunition lot, DMRS serial # and temperature, humidity, wind speed and direction using a Kestrel model 5700 weather meter.

Do not conduct the tests if the sustained crosswinds exceed 15km/hour.

Mount the DMRS to the rifle according the manufacturers' instructions. Torque fasteners to the specified value. In the absence of an indicated torque value use 20 inch pounds.

The weapon and DMRS will be rested on the pedestal mount and the rear of the weapon will be supported on a rear bag. The shooter will then adjust the mount so that the weapon points in the general direction of the target. An assistant using a bore mounted optical aiming device (Ernst Leitz Inc.), will guide the shooter onto the target point. Once the bore is aligned to the desired target point, without moving the rifle, the shooter will adjust the DMRS onto the target point. The rifle and DMRS are now "bore sighted".

Fire a series of 5 round groups (as many as needed), adjusting the DMRS to coincide with the fall of shot on the target. This aligns the DMRS with where the bullets are striking on the target. The rifle is now "zeroed". Cool the weapon between 5 round groups to ambient. (Compressed air flowing through the action and barrel will greatly speed this process).

Note that there is always a discrepancy between where the bore is pointed and where the bullet will strike. Different brands and/or lots of ammunition will often strike the target in different locations.

Targets with the bullet impact marks will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

This procedure must be followed when a new DMRS is mounted for testing.

DMRS Resistance to Recoil Impulse Test (C8)

This section is carried out in order to determine if the alignment of the DMRS with respect to the rifle can be maintained after repeated firing of the rifle. Note that the DMRS may be affected by the recoil impulse internally or externally at the attachment system.

Following the above *Experimental Set up - Sighting In* procedure, use the DMRS to align the rifle to target point and then fire a series of 5, 5 round groups. Only use the DMRS to locate each target point (do not realign after each round is fired) and do not compensate for the fall of shot throughout the test.

Do not conduct the tests if the sustained crosswinds exceed 15km/hour.

Cool the weapon between 5 round groups to ambient. (Compressed air flowing through the action and barrel will greatly speed this process).

Carry out the *Experimental Set up - Sighting In* and the *DMRS Resistance to Recoil Impulse Test* using three different DMRS units of the same type.

Targets with the bullet impact marks will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

If the DMRS is affected by the recoil impulse (i.e. DMRS moves), the groups will either shift point of impact or the group size will increase.

DMRS Removal/Replacement Test (C8)

This section is carried out in order to determine if the alignment of the DMRS with respect to the rifle can be maintained after repeated removal and re-installation of the DMRS.

Following the above *Experimental Set up - Sighting In* procedure, fix a QETE 1" grid test target (Figure 1) at 50 metres from the firing point. Record the test name, shooter, weapon type and serial #, ammunition lot, DMRS serial # and temperature, humidity, wind speed and direction using a Kestrel model 5700 weather meter.

Do not conduct the tests if the sustained crosswinds exceed 15km/hour.

Aiming with the DMRS shoot a 5 round group at a target point remove the DMRS and re-install it without readjusting the DMRS or correcting for the fall of shot.

Repeat the above step 5 times using a new target each time for a total of 25 rounds per each new DMRS. Cool the weapon between 5 round groups to ambient. (Compressed air flowing through the action and barrel will greatly speed this process).

Carry out the *Experimental Set up - Sighting In* and the *DMRS Removal/Replacement Test* using three different DMRS units of the same type.

Targets with the bullet impact marks will be photographed and the images will be calibrated and the following determined via a dedicated target measuring application:

- a. mean point of impact;
- b. group size; and
- c. group measurement in MOA.

If the mounting system is not repeatable, the 5 round groups will move after each removal / replacement cycle.

ANNEX “D”, BASIS OF PAYMENT

Firm unit prices, all inclusive, in Canadian funds, Delivered Duty Paid “DDP” Petawawa, Ontario. Prices include Shipping, Canadian customs duties and excise taxes as applicable and Taxes Extra.

Supplier must provide with each DMRS:

1. Hard Transport case;
2. One set of disposable batteries;
3. Instruction Manual (see para 3.3 Annex “A” for details);
4. Mounting adapters (if applicable); and
5. Special tools and test equipment (if applicable).

Pricing Periods:

Year One: date of award to 31 March 2022 Year Four: 1 April 2024 to 31 March 2025
Year Two: 1 April 2022 to 31 March 2023 Year Five: 1 April 2025 to 31 March 2026
Year Three: 1 April 2023 to 31 March 2024

Table 1: Firm Requirement

Item	Description	Qty	Firm Lot Price Year One
01	Dimmable Mini Reflex Sights that meet all requirements in Annex A & B	700	\$

Table 2: Options (may be exercised anytime during the period of the contract in any quantity by a Contract Amendment).

Item	Description	Estimated Yearly Quantity	Firm Unit Price Year 1	Firm Unit Price Year 2	Firm Unit Price Year 3	Firm Unit Price Year 4	Firm Unit Price Year 5
01	Dimmable Mini Reflex Sights that meet all requirements in Annex A & B	140	\$_____/each	\$_____/each	\$_____/each	\$_____/each	\$_____/each
02	Parts and accessories for Dimmable Mini Reflex Sights that meet all requirements in Annex A not included in item 1 will be Manufacturer's suggested retail list price less a discount	\$10,000.	____%	____%	____%	____%	____%

ANNEX "E", Mandatory Technical Criteria

MANDATORY REQUIREMENT CRITERIA	Required Bidder Response	Method of Evaluation
1.1. The Dimmable Mini Reflex Sight (DMRS) must be based on fielded equipment that is in-service with another 5 Eyes Nation Defence Force.	(1) The Bidder must provide Written Attestation that the DMRS, at time of bid submission, is in use with another 5-Eyes Nation Defence Force.; and (2) Customer contact information (for purpose of verifying contact information and usage only).	Technical Proposal Review
1.2. The DMRS reticle must have a centre dot reticle of 3.0 ± 0.5 Minutes of Angle.	Bidder Documentation	Technical Proposal Review
1.3. The DMRS must be equipped with push button adjustable reticle brightness settings.	Bidder Documentation	Technical Proposal Review
1.4. The DMRS must be powered by commercially available lithium ion batteries.	Bidder Documentation	Technical Proposal Review
1.5. The DMRS must allow the batteries to be replaced without the use of special tools.	Bidder Documentation	Technical Proposal Review
1.6. The DMRS must be non-reflective, have a matte finish and black, tan or dark earth (green/brown) in colour.	Bidder Documentation	Technical Proposal Review
1.7. The DMRS must have dimensions no larger than 60mm x 35mm x 35mm (length x width x height).	Bidder Documentation OR Bidder Analysis	Technical Proposal Review
1.8. The DMRS must have a sight window size of no less than 350 mm ² (e.g. 22 mm x 16 mm).	Bidder Documentation OR Bidder Analysis	Technical Proposal Review
1.9 The DMRS must weight no more than 55 grams with battery installed.	Bidder Documentation OR Bidder Analysis	Technical Proposal Review
1.10. The DMRS must have a water ingress rating of at least an Ingress Protection (IP) code of 'X7' in accordance with International Electrotechnical Commission or equivalent.	Bidder Documentation OR Written Attestation from a third party (laboratory, test facility, etc.)	Technical Proposal Review

<p>1.11. The DMRS must be operable in the following temperatures and climatic conditions as defined by NATO AECTP 200: -20 °C, C1 (Basic Cold) to +40 °C, A1 (Extreme Hot Dry) inclusive and 0% to 100% humidity.</p>	<p>Bidder Documentation OR Written Attestation from a third party (laboratory, test facility, etc.) that confirms that the DMRS has been tested under the climatic conditions specified and is capable of operating in those conditions.</p>	<p>Technical Proposal Review</p>
<p>1.12. A single battery set should operate no less than 30 hours of continuous operation at the highest DMRS brightness setting at a temperature of 20 ± 2°C.</p>	<p>Bidder Documentation</p>	<p>Technical Proposal Review</p>
<p>1.13. The DMRS must be capable of being mounted on a Schweizerische Industrie Gesellschaft (SIG) P226 pistol slide, part number 226-1, 9, blk (i.e. with or without an adapter bracket).</p>	<p>Bidder Documentation & Provide DMRS for testing</p>	<p>Technical Proposal Review & DND Test</p>
<p>1.14. There must be no permanent modifications (e.g. drilling, milling, etc.) to the pistol slide (e.g. manual removal of the rear iron sight from the dovetail is acceptable).</p>	<p>Bidder Documentation & Provide DMRS for testing</p>	<p>Technical Proposal Review & DND Test</p>
<p>1.15. The DMRS, after being mounted and zeroed on the SIG pistol, must maintain a Point of Aim (POA) no greater than 14.6 cm from the Point of Impact (POI) when firing ammunition at a target located at a range of 25 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.</p>	<p>Provide DMRS for testing</p>	<p>DND Test</p>
<p>1.16. The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, must maintain a POA no greater than 14.6 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.</p>	<p>Provide DMRS for testing</p>	<p>DND Test</p>
<p>1.17. While wearing OR™ Outdoor Research Firemark Sensor Gloves, the operator of the DMRS must be capable of full utilization of the DMRS including: 1.17.1 powering the device on and off; 1.17.2 adjusting reticle brightness; 1.17.3 zeroing the device (i.e. in azimuth and elevation); 1.17.4 mounting the device on the pistol slide and rail; and 1.17.5 dismounting the device from the pistol slide and rail.</p>	<p>Provide DMRS for testing</p>	<p>Technical Proposal Review & DND Test</p>
<p>END OF MANDATORY REQUIREMENTS</p>		

ANNEX “F”, POINT RATED REQUIREMENTS

1.0 POINT RATED REQUIREMENTS

Rated requirements are identified by a “should” statement. In order for a proposal to be considered compliant, rated requirements do not have to be met. Rated requirements should be considered as options which increase the value of the proposal. The points assigned to each rated requirement are shown within the “POINTS” column, how they affect the proposal evaluation are detailed in Annex C, DND TEST PROCEDURES

In some cases points are awarded based on a point rating scheme. These requirements are identified with a Point Rating Scheme provided within the cell containing the requirement. With the exception of the cases where the “Method of Compliance” is either “Field Trial” or “DND Test” the Bidder must identify the value achieved, the points associated with the value and the cross reference to the data within the “BIDDER’S RESPONSE” column.

2.0 POINT RATED DND TEST REQUIREMENTS

Criteria	REQUIREMENT	Maximum Points	Required Bidder Response	Point Rating Method																				
1	The DMRS should have been tested and have a “proven history” in delivering and supporting special operations applications and solutions, whereby “proven history” is defined by a delivery of no less than 50 DMRS that have been used with another 5 Eyes Nation Defence Force.	4.0	(1) The Bidder must provide Written Attestation that at least 50 of proposed DMRS have been sold and delivered to another Five (5) Eyes National Defence Force; and (2) Contract number, award date, model and quantities delivered.	Technical Proposal Review																				
2	The DMRS, after being mounted and zeroed on the SIG pistol, should maintain a POA of less than 14.0 cm from the POI when firing ammunition at a target located at a range of 25 meters. This condition should be maintained without re-zeroing the DMRS after firing 5 series of 5 rounds.	7.5	Provide DMRS for testing	<table border="1"> <thead> <tr> <th>POA relative to POI (cm)</th> <th>Points Awarded</th> </tr> </thead> <tbody> <tr> <td>≤ 14.0, > 12.0</td> <td>3.5</td> </tr> <tr> <td>≤ 12.0, > 10.0</td> <td>4.0</td> </tr> <tr> <td>≤ 10.0, > 8.0</td> <td>4.5</td> </tr> <tr> <td>≤ 8.0, > 6.0</td> <td>5.0</td> </tr> <tr> <td>≤ 6.0, > 5.0</td> <td>5.5</td> </tr> <tr> <td>≤ 5.0, > 4.0</td> <td>6.0</td> </tr> <tr> <td>≤ 4.0, > 3.0</td> <td>6.5</td> </tr> <tr> <td>≤ 3.0, > 2.0</td> <td>7.0</td> </tr> <tr> <td>≤ 2.0</td> <td>7.5</td> </tr> </tbody> </table>	POA relative to POI (cm)	Points Awarded	≤ 14.0, > 12.0	3.5	≤ 12.0, > 10.0	4.0	≤ 10.0, > 8.0	4.5	≤ 8.0, > 6.0	5.0	≤ 6.0, > 5.0	5.5	≤ 5.0, > 4.0	6.0	≤ 4.0, > 3.0	6.5	≤ 3.0, > 2.0	7.0	≤ 2.0	7.5
POA relative to POI (cm)	Points Awarded																							
≤ 14.0, > 12.0	3.5																							
≤ 12.0, > 10.0	4.0																							
≤ 10.0, > 8.0	4.5																							
≤ 8.0, > 6.0	5.0																							
≤ 6.0, > 5.0	5.5																							
≤ 5.0, > 4.0	6.0																							
≤ 4.0, > 3.0	6.5																							
≤ 3.0, > 2.0	7.0																							
≤ 2.0	7.5																							

Criteria	REQUIREMENT	Maximum Points	Required Bidder Response	Point Rating Method	
				POA relative to POI (cm)	Points Awarded
3	The DMRS, after being mounted and zeroed on the SIG pistol, should maintain a POA of no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 25 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.	7.5	Provide DMRS for testing	POA relative to POI (cm)	Points Awarded
				≤ 14.0, > 12.0	3.5
				≤ 12.0, > 10.0	4.0
				≤ 10.0, > 8.0	4.5
				≤ 8.0, > 6.0	5.0
				≤ 6.0, > 5.0	5.5
				≤ 5.0, > 4.0	6.0
				≤ 4.0, > 3.0	6.5
≤ 3.0, > 2.0	7.0				
≤ 2.0	7.5				
4	The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, should maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition should be maintained for the following procedure without re-zeroing the DMRS after firing 5 series of 5 rounds.	5.0	Provide DMRS for testing	POA relative to POI (cm)	Points Awarded
				≤ 14.0, > 12.0	3.0
				≤ 12.0, > 10.0	3.25
				≤ 10.0, > 8.0	3.5
				≤ 8.0, > 6.0	3.75
				≤ 6.0, > 5.0	4.0
				≤ 5.0, > 4.0	4.25
				≤ 4.0, > 3.0	4.5
≤ 3.0, > 2.0	4.75				
≤ 2.0	5.0				
5	The DMRS batteries should be capable of being replaced without removing the DMRS from the weapon it is installed on.	3.0	Provide DMRS for testing		
6	The DMRS, after being mounted and zeroed on the rail of a Colt Canada C8A3 carbine, should maintain a POA no greater than 14.0 cm from the POI when firing ammunition at a target located at a range of 50 meters. This condition must be maintained when following the procedure of Section 3.1 of ANNEX B.	5.0	Provide DMRS for testing	DND Test	
				POA relative to POI (cm)	Points Awarded
				≤ 14.0, > 12.0	3.0
				≤ 12.0, > 10.0	3.25
				≤ 10.0, > 8.0	3.5
				≤ 8.0, > 6.0	3.75
				≤ 6.0, > 5.0	4.0
				≤ 5.0, > 4.0	4.25
≤ 4.0, > 3.0	4.5				
≤ 3.0, > 2.0	4.75				
≤ 2.0	5.0				

Criteria	REQUIREMENT	Maximum Points	Required Bidder Response	Point Rating Method														
7	The DMRS should be non-reflective, have a matte finish and be black or tan in colour.	1.0	Provide DMRS for testing	<table border="1"> <thead> <tr> <th colspan="2">Technical Proposal Review</th> </tr> <tr> <th>Colour</th> <th>Points Awarded</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>1.0</td> </tr> <tr> <td>Tan</td> <td>0.5</td> </tr> </tbody> </table>	Technical Proposal Review		Colour	Points Awarded	Black	1.0	Tan	0.5						
Technical Proposal Review																		
Colour	Points Awarded																	
Black	1.0																	
Tan	0.5																	
8	The DMRS should weigh no more than 50 grams with battery installed.	7.0	Bidder Documentation OR Analysis	<table border="1"> <thead> <tr> <th colspan="2">Technical Proposal Review</th> </tr> <tr> <th>Weight (grams)</th> <th>Points Awarded</th> </tr> </thead> <tbody> <tr> <td>≤ 50.0, > 45.0</td> <td>1.75</td> </tr> <tr> <td>≤ 45.0, > 40.0</td> <td>3.50</td> </tr> <tr> <td>≤ 40.0, > 35.0</td> <td>5.25</td> </tr> <tr> <td>≤ 35.0</td> <td>7.00</td> </tr> </tbody> </table>	Technical Proposal Review		Weight (grams)	Points Awarded	≤ 50.0, > 45.0	1.75	≤ 45.0, > 40.0	3.50	≤ 40.0, > 35.0	5.25	≤ 35.0	7.00		
Technical Proposal Review																		
Weight (grams)	Points Awarded																	
≤ 50.0, > 45.0	1.75																	
≤ 45.0, > 40.0	3.50																	
≤ 40.0, > 35.0	5.25																	
≤ 35.0	7.00																	
9	A single battery set should operate no less than 30 hours of continuous operation at the highest DMRS brightness setting at a temperature of 20 ± 2°C.	5.0	Bidder Documentation	<table border="1"> <thead> <tr> <th colspan="2">Technical Proposal Review</th> </tr> <tr> <th>Continuous use (hours)</th> <th>Points Awarded</th> </tr> </thead> <tbody> <tr> <td>≥ 11.0, < 15.0</td> <td>3.0</td> </tr> <tr> <td>≥ 15.0, < 20.0</td> <td>3.5</td> </tr> <tr> <td>≥ 20.0, < 25.0</td> <td>4.0</td> </tr> <tr> <td>≥ 25.0, < 30.0</td> <td>4.5</td> </tr> <tr> <td>≥ 30.0</td> <td>5.0</td> </tr> </tbody> </table>	Technical Proposal Review		Continuous use (hours)	Points Awarded	≥ 11.0, < 15.0	3.0	≥ 15.0, < 20.0	3.5	≥ 20.0, < 25.0	4.0	≥ 25.0, < 30.0	4.5	≥ 30.0	5.0
Technical Proposal Review																		
Continuous use (hours)	Points Awarded																	
≥ 11.0, < 15.0	3.0																	
≥ 15.0, < 20.0	3.5																	
≥ 20.0, < 25.0	4.0																	
≥ 25.0, < 30.0	4.5																	
≥ 30.0	5.0																	
TOTAL POINTS		45																

3.0 DND FIELD TRIAL AND POINT RATING METHODOLOGY

1.0 Scope

The scope of the DND Field Trial is to evaluate the integration of the DMRS on the Schweizerische Industrie Gesellschaft (SIG) P226 pistol (i.e. mounted on the pistol slide) and on the NATO STANAG 4694 rail of the C8A3 Carabine. The trial will consist of activities to determine the operator's ability to effectively use the DMRS under simulated combat situations.

2.0 DND Field Trial Plan

The activities are task-based and certain criteria of the activities will be rated qualitatively through the use of a systematic user rating. For each of the trial activities, participants will wear Canadian Armed Forces (CAF) issued clothing and equipment as required, including combat dress, boots, helmet, ear and eye protection, communication gear, shooting gloves, Night Vision Goggles (NVGs), gas mask, load carrying vest, fragmentation vest. A variety of CAF weapons will be used for the evaluation. The various weapons will be mounted with the Bidder DMRSS.

2.1 Participants

The soldiers participating in the trial are familiar with the use of DMRSS in the operational environments for which they are designed. There will be a minimum of four (4) to a maximum of eight (8) DND participants conducting the trial activities. Each participant will evaluate a DMRS from each Bidder.

2.2 Trial Program

The Field Trial will be conducted at a DND facility over a period of several days depending on the number of DMRSS to be assessed. The DMRSS will be trialed in a random order. No more than two (2) separate DMRSS will be trialed by a single participant on the same day. Rest periods will be included in the trial program to eliminate the bias of physical exhaustion. In the event of inclement weather, that could affect the outcome of the trials, additional days will be allocated.

2.3 Activities and Procedures

The details of the activities to be conducted by each participant are identified in the following sections. The trial activities are based on operational tasks performed by operators. At the completion of the three trial activities, each participant will complete the Field Evaluation Questionnaire found in Annex "F" Point Rated Requirements. Included in the Questionnaire is an assessment scale and the rated criteria. The assessment scale is a 7-point scale which will be used to provide a clear and understandable quantification of the participant's perception in a controlled manner. Mounting and dismounting of the DMRS onto the weapons during the field trial will be performed in accordance with the instruction books provided with Bidder's DMRS.

2.3.1 Activity 1: Close Quarter Battle Drills Evaluation

The Close Quarter Battle (CQB) drills will be completed to quantify the effect of the DMRS, in conjunction with the weapon, on the operator's mobility, agility, and lethality. The participant will complete the CQB drills in accordance with standard drill protocols.

2.3.2 Activity 2: Live Firing Range (daytime)

The live firing of the operator's weapon, in conjunction with the DMRS, will be completed to quantify the effect of the DMRS when the operator shoots their weapon. The participant will employ the DMRS in conjunction with the various caliber of weapons with the intention of engaging both pre-established targets and targets of opportunities at various distances. The participants will also engage targets while wearing their gas mask to evaluate its effect on their ability to complete the tasks in conjunction with the DMRS.

2.3.3 Activity 3: Live Firing Range (nighttime)

The live firing of the operator's weapon in conjunction with the DMRS will be completed to quantify the effect of the DMRS when the operator is required to shoot their weapon in conjunction with NVGs in low light conditions.

4.0 Point Rating of Field Trial

REQUIREMENT	Maximum Points	Required Bidder Response	Point Rating Method
The DMRS, while mounted on a weapon, must allow the operator to effectively set up the DMRS, acquire targets and engage targets while wearing standard operational duty kit including: combat dress, boots, helmet, ear and eye protection, night vision goggles, gas mask, communication gear, shooting gloves, load carrying vest and fragmentation vest.	$25.0 = \frac{\text{Bidder's score} \times 25}{90 \text{ points}}$	Provide DMRS for testing	DND Field Trial (Must obtain a minimum score of 80%)

4.1 Field Trial Scoring Guide

Participant Number:	DMRS OEM:
Date:	DMRS Make/Model:
	DMRS Serial #:

ASSESSMENT SCALE		SCORE
Completely Unacceptable	The DMRS did not meet any requirements for the criteria and had severe limitations that would prevent the operator from completing the task.	0
Reasonably Unacceptable	The DMRS met the minimal requirements for the criteria and had some limitations that may prevent the operator from completing the task.	1
Barely Unacceptable	The DMRS met some of the requirements for the criteria and performed in a manner that that may prevent the operator from completing the task.	2
Borderline	The DMRS met some of the requirements for the criteria and performed in a manner that would permit the operator to complete the task with significant limitations on range of use.	3
Barely Acceptable	The DMRS met most of the requirements for the criteria and performed in a manner that would permit the operator to complete the task with few limitations on range of use.	4
Reasonably Acceptable	The DMRS met most of the requirements for the criteria and performed well in the hands of the operator with only minor limitations.	5
Completely Acceptable	The DMRS met or exceeded all requirements for the criteria and performed in every way expected by the operator.	6

ASSESSMENT CRITERIA	
For the activities, identified within Section 2 of Annex F, the participant will rate the acceptability of the DMRS in terms of the following criteria:	User Assessment ☹ 0 1 2 3 4 5 6 ☺
Ease of mounting/dismounting and operating the device (on SIG Pistol slide)	<input type="checkbox"/>
Ease of mounting/dismounting and operating the device (on NATO STANAG 4694 rail)	<input type="checkbox"/>
Amount of eye strain induced during the activities	<input type="checkbox"/>
Device remained secured/tightened in place	<input type="checkbox"/>
Ease of powering the device on and off while wearing gear	<input type="checkbox"/>
Ease of zeroing the device while wearing gear	<input type="checkbox"/>
Ease of adjusting brightness while wearing gear	<input type="checkbox"/>
Reticle returned to original state after being adjusted in azimuth and elevation (free of mechanical backlash)	<input type="checkbox"/>
While wearing NVGs in low light conditions, the brightness can be adjusted such that the reticle is visible and the target is not washed out.	<input type="checkbox"/>
While wearing non-tinted eye protection, in daylight conditions, the brightness can be adjusted such that the reticle and target are visible	<input type="checkbox"/>
While wearing tinted eye protection, in daylight conditions, the brightness can be adjusted such that the reticle and target are visible	<input type="checkbox"/>
Ability to use the DMRS in conjunction with the in-service NVGs	<input type="checkbox"/>
Ability to use the DMRS in conjunction with the in-service gas mask	<input type="checkbox"/>
No interference on the operation of weapon when mounted with DMRS	<input type="checkbox"/>
Overall acceptability of the DMRS	<input type="checkbox"/>
Score	(___ / 90) * 25

ANNEX "G" to PART 3 OF THE BID SOLICITATION - ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);

ANNEX "H", ADDITIONAL CERTIFICATION INFORMATION

1. Board of Directors

In accordance with the [Ineligibility and Suspension Policy](#), Section 17, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name/Position - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Suppliers are required to have a Procurement Business Number (PBN) before Contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.

ANNEX "I", NON-DISCLOSURE AGREEMENT

I, _____, recognize that in the course of my work as an employee or subcontractor of _____, I may be given access to information by or on behalf of Canada in connection with the Work, pursuant to Contract Serial No. W6448-21C064 between Her Majesty the Queen in right of Canada, represented by the Minister of Public Works and Government Services and _____, including any information that is confidential or proprietary to third parties, and information conceived, developed or produced by the Contractor as part of the Work. For the purposes of this agreement, information includes but not limited to: any documents, instructions, guidelines, data, material, advice or any other information whether received orally, in printed form, recorded electronically, or otherwise and whether or not labeled as proprietary or sensitive, that is disclosed to a person or that a person becomes aware of during the performance of the Contract.

I agree that I will not reproduce, copy, use, divulge, release or disclose, in whole or in part, in whatever way or form any information described above to any person other than a person employed by Canada on a need to know basis. I undertake to safeguard the same and take all necessary and appropriate measures, including those set out in any written or oral instructions issued by Canada, to prevent the disclosure of or access to such information in contravention of this agreement.

I also acknowledge that any information provided to the Contractor by or on behalf of Canada must be used solely for the purpose of the Contract and must remain the property of Canada or a third party, as the case may be.

I agree that the obligation of this agreement will survive the completion of the Contract Serial No. W6448-21C064.

Signature

Date