



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

Address all inquiries to:
Tammy.Weaver@tpsgc-pwgsc.gc.ca

This requirement is a controlled good

Title - Sujet Fused Night Vision Goggles	
Solicitation No. - N° de l'invitation W7719-205493/C	Date 2020-09-08
Client Reference No. - N° de référence du client W7719-205493	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-508-8122	
File No. - N° de dossier KIN-9-52163 (508)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-10-21	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Weaver, Tammy	Buyer Id - Id de l'acheteur kin508
Telephone No. - N° de téléphone (613) 484-1809 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE Defence R&D Canada - Toronto 1133 Sheppard Avenue West Toronto Ontario M3K2C9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services / 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	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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM	Destination	Plant/Usine	Del. Offered Liv. offerte
1	Fused Night Vision Goggles	W7719	W7719	1	Each	\$	\$	See Herein	

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PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

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

1.3 epost Connect service

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

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

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

Delete: 60 days

Insert: 120 days

2.2 Submission of Bids

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

Epost Request Inbox:

TPSGC.orreceptiondessoumissions-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.

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

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

2.5 Bid Challenge and Recourse Mechanisms

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

2.6 SACC Manual Clause

A9130T(2019-11-28) Controlled Goods Program- Bid

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- Bidder must submit its bid electronically, Canada requests that the Bidder submits its bid 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

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

Section I: Technical Bid

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

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Item	Specifications	Description	Page # of Proposal to find information
1	Architecture	Binocular central bridge with two side arms each consisting of an i ² tube and two optical channels with a thermal channel that can be fused with one output of one of the i ² tubes into one of the optical channels	
2	Weight (incl. 2x objective caps, battery, eyecups and lanyard)	Less than 1000 g (including goggle, battery pack and cabling)	
3	Minimum height achievable	100 mm or less	
4	Minimum width achievable	115 mm or less	
5	Minimum length achievable	109 mm or less	
6	Magnification	1x (optical)	
7	I ² tube field of view	40° +/- 2°	
8	Thermal field of view	34° on the diagonal or higher	
9	LWIR microbolometer	uncooled	
10	LWIR wavelength	8-12 µm or better	
11	Thermal sensor array size and resolution	640 x 480 or higher, 12 µm pixel pitch or better	
13	Objective lenses aperture	A minimum of F/1.2 or better	
14	Objective lenses focus range	45.72 cm or lower to infinity (continuous)	
15	Diopter adjustment	Supports adjustable diopter eyepieces	
16	Eye relief	Some part of the eye relief range must include 30 mm	
17	Battery	4x or fewer 1.5V lithium AA	
18	Battery life at ambient room temperature (20-23°) with 1.5V lithium with fused operation	Minimum 8 hours	
19	Image intensifying tube length	18 mm	
20	I ² tube phosphor type	white	
21	I ² tube figure of merit (FOM)	No less than 2376	
22	I ² tube resolution	No less than 72 lp/mm	
23	I ² tube signal to noise ratio at 108 µlux	No less than 33	
24	I ² tube haloing effect	No more than 0.85 mm	
25	I ² tube maximum Equivalent Background Input (EBI) at 23°C	No more than 0.25 µlux	
26	I ² tube automated bright source protection	Yes	
27	I ² tube minimum lifetime	A minimum of 10,000 hrs	
28	Autogating	Yes	
29	Adjustable i ² and thermal gain	Yes	

	control		
30	Adjustable thermal brightness	Yes	
31	Automatic cut-off in stowed position	Yes. Resumes power when deployed.	
32	Inter-pupillary adjustment	Yes. 65 mm or less to 70 mm or higher.	
33	Display resolution	1280 x 1024 or better	
34	Display color depth	8-bit color or better	
35	Display refresh rate	50 Hz or better	
36	Side arm rotation	Yes, independent. Left and right side arms must rotated out of the way independently (one up one down, both down, both up configurations)	
37	Mount compatibility	The NVG mount must be compatible with a standard/universal helmet shroud such as that found on an advance combat helmet or modular integrated communications helmet	

2 Accessories for Fused NVG

The Contractor to provide the following accessories for requirement 1 if available:

Item	Description	Required quantity	Page # of Proposal to find information
2.1	Eyecups (2 per unit)	2	
2.2	Neck Lanyard (if available)	2	
2.3	Head Harness (if available)	2	
2.4	Navigation battery pack (if available)	2	
2.5	Sacrificial lenses (2 per unit)	2	
2.6	Soft pouch	2	
2.7	User Manual	2	

4.1.2 Financial Evaluation

- Bidders that meet the technical Evaluation will have the financial portion of the bid evaluated. Evaluated Price will be the usage x the unit price DDP. Only Item 1 – Night goggles will be included in the evaluation.
- SACC Manual Clause [A0220T \(2014-06-26\)](#), Evaluation of Price-Bid

4.2 Basis of Selection - Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any

certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

5.1 Certifications 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 property 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.

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide Night Vision Goggles in accordance with the Requirement at Annex "A".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of award to 2 months after delivery is completed inclusive

6.4.2 Delivery Date

All the deliverables must be received on or before _____ (*insert the date*).

6.4.3.

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at _____ 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.

6.4.5 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tammy Weaver
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
86 Clarence St, 2nd Floor
Kingston, Ontario
K7L 1X3

Telephone: 613-484-1809
Facsimile: 613-545-8067
E-mail: Tammy.Weaver@tpsgc-pwgsc.gc.ca

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

6.5.2 Project Authority (to be completed upon contract award)

The Project Authority for the Contract is:

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

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

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

6.5.3 Contractor's Representative

Name: _____

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

6.6 Payment

6.6.1 Basis of Payment

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

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

6.6.2 Single Payment

[H1000C \(2008-05-12\) Single Payment](#)

6.6.3 Electronic Payment of Invoices – Contract

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

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

- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

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

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.

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

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

6.9 Applicable Laws

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

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, Basis of Payment;
- (e) the Contractor's bid dated _____.

6.11 Defence Contract

SACC Manual clause [A9006C](#) ([2012-07-16](#)) Defence Contract

6.12 Insurance

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

6.13 Controlled Goods Program

SACC Manual clause [A9131C](#) (2014-11-27), Controlled Goods Program

SACC Manual clause [B4060C](#) (2014--11-27), Controlled Goods Program - Contract

6.14 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP) Defence Research and Development Canada – Toronto Research Centre, 1133 Sheppard Ave W, Toronto, ON, M3K 2C9, Canada Incoterms 2000 for shipments from a commercial contractor.

6.15 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

Annex "A"

Requirement

1. TITLE

FUSED NIGHT VISION GOGGLES FOR DISMOUNTED SOLDIERS

2. BACKGROUND

DRDC is supporting a Directorate of Land Requirements (DLR) acquisition project on night vision modernization. As part of this project, DRDC will evaluate the capability offered by different night vision goggle (NVG) configurations (monocular, binocular, thermal-i² fused systems). In order to carry out these evaluations, fused binocular NVGs must be acquired. The systems should achieve fusion with an integral thermal and i² capability rather than with a clip-on or modular system.

3. ACRONYMS

DLR	Directorate of Land Requirements
DRDC	Defence Research and Development Canada
SOR	Statement of Requirement
TA	Technical Authority
NVG	Night Vision Goggles

4. REQUIREMENTS

4.1 Fused Binocular NVGs

Required quantity: 2

The Contractor must provide the requirement with the following specifications:

Item	Specifications	Value
4.1.1	Architecture	Binocular central bridge with two side arms each consisting of an i ² tube and two optical channels with a thermal channel that can be fused with one output of one of the i ² tubes into one of the optical channels
4.1.2	Weight (incl. 2x objective caps, battery, eyecups and lanyard)	Less than 1000 g (including goggle, battery pack and cabling)
4.1.3	Minimum height achievable	100 mm or less
4.1.4	Minimum width achievable	115 mm or less
4.1.5	Minimum length achievable	109 mm or less
4.1.6	Magnification	1x (optical)
4.1.7	i ² tube field of view	40° +/- 2°
4.1.8	Thermal field of view	34° on the diagonal or higher

4.1.9	LWIR microbolometer	uncooled
4.1.10	LWIR wavelength	8-12 μm or better
4.1.11	Thermal sensor array size and resolution	640 x 480 or higher, 12 μm pixel pitch or better
4.1.13	Objective lenses aperture	A minimum of F/1.2 or better
4.1.14	Objective lenses focus range	45.72 cm or lower to infinity (continuous)
4.1.15	Diopter adjustment	Supports adjustable diopter eyepieces
4.1.16	Eye relief	Some part of the eye relief range must include 30 mm
4.1.17	Battery	4x or fewer 1.5V lithium AA
4.1.18	Battery life at ambient room temperature (20-23°) with 1.5V lithium with fused operation	Minimum 8 hours
4.1.20	Image intensifying tube length	18 mm
4.1.21	I ² tube phosphor type	white
4.1.22	I ² tube figure of merit (FOM)	No less than 2376
4.1.23	I ² tube resolution	No less than 72 lp/mm
4.1.24	I ² tube signal to noise ratio at 108 μlux	No less than 33
4.1.25	I ² tube haloing effect	No more than 0.85 mm
4.1.26	I ² tube maximum Equivalent Background Input (EBI) at 23°C	No more than 0.25 μlux
4.1.27	I ² tube automated bright source protection	Yes
4.1.28	I ² tube minimum lifetime	A minimum of 10,000 hrs
4.1.29	Autogating	Yes
4.1.30	Adjustable i ² and thermal gain control	Yes
4.1.31	Adjustable thermal brightness	Yes
4.1.32	Automatic cut-off in stowed position	Yes. Resumes power when deployed.
4.1.33	Inter-pupillary adjustment	Yes. 65 mm or less to 70 mm or higher.
4.1.34	Display resolution	1280 x 1024 or better
4.1.35	Display color depth	8-bit color or better
4.1.36	Display refresh rate	50 Hz or better
4.1.37	Side arm rotation	Yes, independent. Left and right side arms must rotated out of the way independently (one up one down, both down, both up configurations)
4.1.38	Mount compatibility	The NVG mount must be compatible with a standard/universal helmet shroud such as that found on an advance combat helmet or modular integrated communications helmet

4.2 Accessories for Fused NVG

The Contractor is to provide the following accessories for requirement 4.1, if available:

Item	Description	Required quantity
4.2.1	Eyecups (2 per unit)	2

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4.2.2	Neck Lanyard (if available)	2
4.2.3	Head Harness (if available)	2
4.2.4	Navigation battery pack (if available)	2
4.2.5	Sacrificial lenses (2 per unit)	2
4.2.6	Soft pouch	2
4.2.7	User Manual	2

5. OPTIONAL ITEMS

An option to buy a third system as detailed in 4.1 and 4.2 may be exercised upon contract award or during the period of the contract.

6. Deliverables

6.1 Deliverables for requirement 4.1 & 4.2:

Number	Requirement Reference	Description of the Deliverables	Quantity and Format
6.1	4.1 & 4.2	Fused thermal/I ² binocular NVG & accessories	2 (3 with option)

7. DELIVERY LOCATION

Defence Research and Development Canada – Toronto Research Centre
1133 Sheppard Ave W
Toronto, ON, M3K 2C9
Canada

ANNEX "B"

BASIS OF PAYMENT

Item #	Description	Unit of Issue	Unit Price DDP	Extended Price DDP
1.	Night Vision goggles as outlined in Annex "A"	2	\$ _____	\$ _____
			Total	\$ _____

The following may be purchased if available

Item	Description	Required quantity	Unit Price DDP	Extended Price DDP
1.	Eyecups (2 per unit)	2	\$ _____	\$ _____
2	Neck Lanyard	2	\$ _____	\$ _____
3	Head Harness	2	\$ _____	\$ _____
4	Navigation battery pack	2	\$ _____	\$ _____
5	Sacrificial lenses (2 per unit)	2	\$ _____	\$ _____
6	Soft pouch	2	\$ _____	\$ _____
7	User Manual	2	\$ _____	\$ _____
8.	Low profile mount	2	\$ _____	\$ _____
9.	Additional Night Vision Google as outlined in Annex "A"	1	\$ _____	\$ _____

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ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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

Annex "D"

ADDITIONAL CERTIFICATIONS

ADDITIONAL CERTIFICATIONS

1. Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, 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 - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Offerors 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.