



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**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 VP2 Cable Termination - TERMINAISON	
Solicitation No. - N° de l'invitation W7707-227143/A	Date 2021-11-23
Client Reference No. - N° de référence du client W7707-22-7143	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-220-11398	
File No. - N° de dossier HAL-1-87134 (220)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Atlantic Standard Time AST on - le 2021-12-21 Heure Normale de l'Atlantique HNA	
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: Dunphy, Nancy	Buyer Id - Id de l'acheteur hal220
Telephone No. - N° de téléphone (902) 456-4287 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE DRDC ATLANTIC RESERACH CENTRE 9 GROVE ST DARTMOUTH Nova Scotia B3A 3C5 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

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scot
B3J 1T3

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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	3
1.1 SECURITY REQUIREMENTS	3
1.2 STATEMENT OF REQUIREMENT	3
1.3 DEBRIEFINGS	3
1.4 EPOST CONNECT SERVICE	3
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	3
2.2 SUBMISSION OF BIDS.....	4
2.3 ENQUIRIES - BID SOLICITATION.....	4
2.4 APPLICABLE LAWS.....	4
2.5 BID CHALLENGE AND RECOURSE MECHANISMS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS.....	5
3.1 BID PREPARATION INSTRUCTIONS	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	6
4.1 EVALUATION PROCEDURES.....	6
4.2 BASIS OF SELECTION.....	7
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	7
5.1 CERTIFICATIONS REQUIRED WITH THE BID	7
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	7
PART 6 - RESULTING CONTRACT CLAUSES	8
6.1 SECURITY REQUIREMENTS	8
6.2 STATEMENT OF REQUIREMENT	8
6.3 STANDARD CLAUSES AND CONDITIONS.....	8
6.4 TERM OF CONTRACT	8
6.5 AUTHORITIES	9
6.6 PAYMENT	10
6.7 INVOICING INSTRUCTIONS	10
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	11
6.9 APPLICABLE LAWS.....	11
6.10 PRIORITY OF DOCUMENTS	11
6.11 CONDITION OF MATERIAL – CONTRACT.....	11
6.12 SACC MANUAL CLAUSES.....	11
6.13 DISPUTE RESOLUTION.....	11
ANNEX "A".....	13
STATEMENT OF REQUIREMENT AND MANDATORY EVALUATION CRITERIA	13
ANNEX "B".....	18
BASIS OF PAYMENT	18
ANNEX "C" TO PART 3 OF THE BID SOLICITATION	19
ELECTRONIC PAYMENT INSTRUMENTS.....	19

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

ANNEX "D"	20
INTEGRITY REQUIREMENTS.....	20
ANNEX E – DRAWING	21
ANNEX E-1 – SPECIFICATIONS	21

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable to the Contract.

1.2 Statement of Requirement

Public Services and Procurement Canada on behalf of the Department of National Defence, Defence Research and Development Canada (DRDC) Nova Scotia, has a requirement for Quantity two (2) Vertical Projector 2 (VP-2) Cable Termination. See Annex A/Annex E for further details.

The complete delivery of the two (2) Vertical Projector 2 (VP-2) Cable Terminations must be delivered to Dartmouth, B3A 3C5, Nova Scotia by March 31, 2022.

1.3 Debriefings

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

1.4 epost Connect service

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The [2003](#) (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: 90 days

2.1.1 **SACC Manual Clauses**

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

2.2 **Submission of Bids**

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

Bid Receiving Public Works and Government Services Canada / R ception des soumissions
Travaux publics et services gouvernementaux
1713 Bedford Row
Halifax, NS B3J 1T3

Email for epost Connect:

TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.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](#).

Facsimile number: (902) 496-5016

2.3 **Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 **Applicable Laws**

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

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

2.5 **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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. 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

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

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

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

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

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

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

Canada requests that bidders follow the format instructions described below in the preparation of hard copy of their bid:

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

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

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the mandatory technical requirements in Annex "A".

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

Bidders must clearly demonstrate compliance with each mandatory technical criteria (refer to Annex A). Failure to demonstrate compliance will result in the bid being deemed non-responsive, and be given no further consideration.

The Crown is under NO obligation to seek clarification of any information contained within the bid(s) or the supporting technical documentation provided.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

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

4.2 Basis of Selection

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1 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

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

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 Security Requirements

There is no security requirement associated with this procurement.

6.2 Statement of Requirement

The requirement is detailed under Annex "A" – Statement of Requirement and Mandatory Criteria.

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 Contract to _____ inclusive.

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

6.4.2 Delivery Date

All the deliverables must be received on or before March 31, 2022.

6.4.3 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:

Name: Nancy Dunphy
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row, Halifax, NS B3J 3C9

Telephone: 902-456-4287
Facsimile: 902-496-5016
Email: nancy.dunphy@pwgsc-tpsgc.gc.ca

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

6.5.2 Project Authority (will be named at contract award)

The Project Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail: _____

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

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

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 (BIDDER TO FILL IN)

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

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 a *firm unit price(s), 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 Limitation of Price

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

6.6.3 Method of Payment

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

6.6.4 Electronic Payment of Invoices – Contract

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

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

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:

E-Mail: to be included

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 Nova Scotia.

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), Goods (Medium Complexity)
- (c) Annex A, Statement of Requirement and Mandatory Evaluation Criteria;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____.

6.11 Condition of Material – Contract

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

6.12 SACC Manual Clauses

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

6.13 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.

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

- (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"

STATEMENT OF REQUIREMENT and MANDATORY EVALUATION CRITERIA

1. TITLE

VP2 CABLE TERMINATION

2. BACKGROUND

The Vertical Projector 2 (VP-2) system has been used for several decades at Defence Research and Development Canada (DRDC) Atlantic. The cable used to tow and send signals to the projector system is showing fatigue and wear from its many deployments. DRDC has acquired a pair of new cables and these cables require mechanical, electrical and optical terminations to make them operational ready.

3. ACRONYMS

DRDC	Defence Research and Development Canada
SOR	Statement of Requirement
TA	Technical Authority
Lbf	Pound-Force
VP-2	Vertical Projector 2
AWG	American Wire Gauge

4. APPLICABLE DOCUMENTS & REFERENCES

VP2 Tow Point Drawing: G38-1044 Tow Yoke.pdf (Annex E)
VP2 Tow Cable Drawing: VP2 Electro-Optical Cable.pdf (Annexe E-1)

5. REQUIREMENTS

5.1 Cable Terminations

Terminations to 2 X 500 meter Cables

The Contractor must adhere to the following specifications:

Specifications	Value
Tow Termination	Mechanical termination with ability to mate to existing tow point on the VP2 tow body. See Drawing G38-1044 Tow Yoke.pdf, "B" Max Working load: 10,000 Lbf Max length: 107 centimeters (shorter factor desired) including strain relief. Tow body can reach depths of 300 meters all potting must be able to handle

	<p>this depth in a saltwater environment. Materials must be suitable to a saltwater environment. Stainless steel components must be made of 316 grade material.</p>
Reel Termination	<p>Mechanical sleeve termination to secure the armour jacket. This is not a tow point, no anchor point required. A method to protect the electrical and optical conductors from the double armour jacket sharp edges is required.</p>
Electrical Termination	<p>The cable electrical component consists of 4 twisted pairs of 12 AWG with voltage rating of 2500V Each pair must be terminated with alternating male, female SubConn Power – 1 Contact (IL1F & IL1M) tails at each end.</p> <ul style="list-style-type: none"> • Tow Termination Tail Length: 3 meters • Reel Termination Tail Length: 1.5 meters
Optical Termination	<p>4 multi-mode fibers to be terminated with underwater connectors capable of at least 300 meter depth with tails.</p> <ul style="list-style-type: none"> • Tow Termination Tail Length: 1 meter • Reel Termination Tail Length: 1.5 meters

5.2 Return of Terminated Cables to DRDC Atlantic

The Contractor must return the Cables to DRDC Atlantic, 9 Grove Street, Building 26, Dartmouth, NS B3A 3C5 upon completion of Task 5.1.

6. Deliverables

Number	Requirement Reference	Deliverables
6.1	5.1	Termination of VP-2 tow cable per specifications in 5.1
6.2	5.2	Return of terminated cables to DRDC Atlantic upon completion of Task 5.1

7. DATE OF DELIVERY

Deliverable	Delivery Date
6.1	On or before 14-March-2022
6.2	On or before 31-March-2022

8. Language of Work

English

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

9. LOCATION OF WORK

All work must be performed on Contractor site.

10. Travel

The Contractor is not required to travel.

11. MEETINGS

Not required

12. GOVERNMENT SUPPLIED MATERIAL (GSM)

None

13. GOVERNMENT FURNISHED EQUIPMENT (GFE)

VP-2 Tow Cable
Quantity 2

14. SPECIAL CONSIDERATIONS

None

MANDATORY EVALUATION CRITERIA

TITLE: VP2 CABLE TERMINATION

Instructions: Bidders should include a copy /ecopy of descriptive literature; if available, for the item(s) offered in sufficient detail to clearly indicate compliance with each of the individual requirements from the Statement of Requirement (SOR) detailed herein.

Bidders should cross reference the page number and highlight the specification in your technical data sheets or brochure to demonstrate and support your compliance for each of the Mandatory Technical Criteria within the SOR. You may add any comments to support your bid.

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

NOTE: The Crown is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided. Failure to meet any of the following will render your proposal non-compliant and will be given no further consideration.

Bidders **must** comment or provide page number for each and every line item of the following table, or their bid will be deemed non-compliant.

NO.	SPECIFICATIONS	PAGE NUMBER OR CROSS REFERENCE	COMMENT(S)
1	<p>Tow Termination:</p> <p>Mechanical termination with ability to mate to existing tow point on the VP2 tow body. See Drawing G38-1044 Tow Yoke.pdf, "B"</p> <p>Max Working load: 10,000 Lbf</p> <p>Max length: 107 centimeters (shorter factor desired) including strain relief.</p> <p>Tow body can reach depths of 300 meters all potting must be able to handle this depth in a saltwater environment.</p> <p>Materials must be suitable to a saltwater environment.</p> <p>Stainless steel components must be made of 316 grade material.</p>		

NO.	SPECIFICATIONS	PAGE NUMBER OR CROSS REFERENCE	COMMENT(S)
2	<p>Reel Termination:</p> <p>Mechanical sleeve termination to secure the armour jacket. This is not a tow point, no anchor point required. A method to protect the electrical and optical conductors from the double armour jacket sharp edges is required.</p>		
3	<p>Electrical Termination:</p> <p>The cable electrical component consists of 4 twisted pairs of 12 AWG with voltage rating of 2500V. Each pair must be terminated with alternating male, female SubConn Power – 1 Contact (IL1F & IL1M) tails at each end.</p> <ul style="list-style-type: none">• Tow Termination Tail Length: 3 meters <p>Reel Termination Tail Length: 1.5 meters</p>		
4	<p>Optical Termination:</p> <p>4 multi-mode fibers to be terminated with underwater connectors capable of at least 300 meter depth with tails.</p> <ul style="list-style-type: none">• Tow Termination Tail Length: 1 meter <p>Reel Termination Tail Length: 1.5 meters</p>		

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

CCC No./N° CCC - FMS No./N° VME

ANNEX "B"

Basis of Payment

Pricing offered must be in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

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

No further charges will be allowed.

Firm Requirement: Delivery is on or before March 31, 2022.

ITEM	U/I	QTY	UNIT PRICE	EXTENDED
VP2 CABLE TERMINATION	EA	2		
Taxes extra – Warranty/Shipping & Handling included			TOTAL	

Bidder's best delivery date: _____

Solicitation No. - N° de l'invitation
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ANNEX "C" 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)

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
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Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

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ANNEX “D”

Integrity Requirements

Bidder must submit with their bid, by the bid solicitation closing date:

(a) A complete list of names of all individuals who are currently directors of the Bidder;

Complete Legal Name of Supplier:

Supplier Address: _____

Supplier PBN: _____

List of Directors: Please provide a list of names of all individuals currently on the Board of Directors of the above company.

Board of Directors (Full Name and Position)

Solicitation No. - N° de l'invitation
W7707-227143/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
ha1220

Client Ref. No. - N° de réf. du client
W7707-22-7143

File No. - N° du dossier
HAL-1-87134

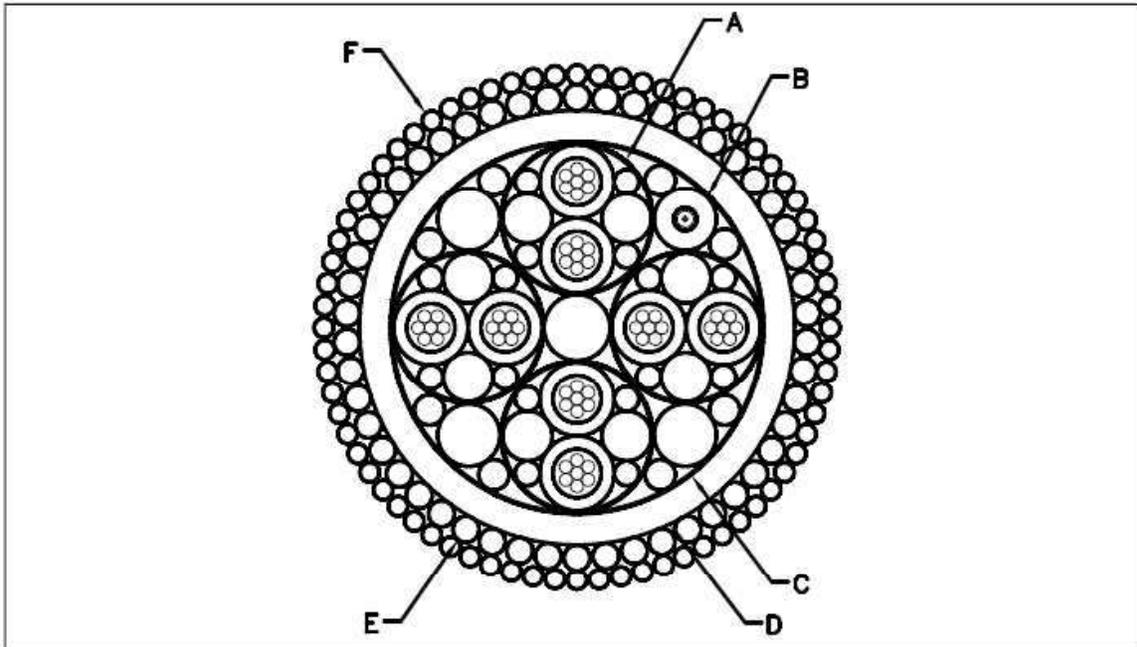
CCC No./N° CCC - FMS No./N° VME

Annex E – DRAWING

See attached

Annex E-1 – Specifications

See attached.



CABLE DESIGN CHARACTERISTICS										
CALCULATED NOMINAL (All values - 1000' except as indicated).										
	Cable Weight		Strength Member:		Armor		#4 Min. Bend Radius			
	Lbs/kft	g/m	Safety Factor:	6	Rated Strength:			Inches	Millimeters	
In Air:	1,505	2,240			Lbs	kN	Dynamic:	15.0	381	
In Freshwater:	1,012	1,507	#7	Break with Ends Fixed:	60,831	270.6	Static:	11.3	286	
In Saltwater:	1,000	1,488		Break with One End Free:	60,831	270.6				
Saltwater SG:	1.025	g/cc	#6	Safe Working Load:	10,139	45.1				
	DC Resistance		Voltage Rating			C	L	Z	Attenuation (dB/km)	
Component	ohms/kft	ohms/Km	VAC	VDC	V/Mil	pt/mtr	nH/mtr	ohms	@850 nm	@1300 nm
A - 12 AWG	1.66	5.46	2,508	3,547	120.0					
B - 4 MMFO									2.46	0.64
APPROVALS			DESCRIPTION							
	NAME	DATE	4x12AWG TP Armored Cable							
DRN BY	ZG	7/20/2020								
CHK BY										
ENG										
MFG										
			PART NUMBER						REV	
QC			2020-0609						3	
SALES										

