

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

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

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet CABLE ASSEMBLY,FIBER OPTIC,BRANCHED	
Solicitation No. - N° de l'invitation W8486-162697/B	Date 2015-07-21
Client Reference No. - N° de référence du client W8486-162697	
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-313-67689	
File No. - N° de dossier hn313.W8486-162697	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-08-19	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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: Kelly, Ruth	Buyer Id - Id de l'acheteur hn313
Telephone No. - N° de téléphone (819) 420-0343 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE CFSD MONTREAL 6363 RUE NOTRE DAME ST E. MONTREAL Quebec H1N3V9 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

Electrical & Electronics Products Division
11 Laurier St./11, rue Laurier
7B3, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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

Solicitation No. - N° de l'invitation

W8486-162697/B

Amd. No. - N° de la modif.

File No. - N° du dossier

hn313W8486-162697

Buyer ID - Id de l'acheteur

hn313

CCC No./N° CCC - FMS No/ N° VME

W8486-162697

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TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 SECURITY REQUIREMENTS	2
1.2 REQUIREMENT	2
1.3 DEBRIEFINGS	2
1.4 TRADE AGREEMENTS	2
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	3
2.2 SUBMISSION OF BIDS	3
2.3 ENQUIRIES - BID SOLICITATION	3
2.4 APPLICABLE LAWS	4
PART 3 - BID PREPARATION INSTRUCTIONS.....	5
3.1 BID PREPARATION INSTRUCTIONS.....	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	7
4.1 EVALUATION PROCEDURES	7
4.2 BASIS OF SELECTION	7
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	8
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	8
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION.....	8
PART 6 - RESULTING CONTRACT CLAUSES.....	11
6.1 SECURITY REQUIREMENTS	11
6.2 REQUIREMENT	11
6.3 STANDARD CLAUSES AND CONDITIONS	11
6.4 TERM OF CONTRACT	11
6.5 AUTHORITIES	12
6.6 PAYMENT	12
6.7 INVOICING INSTRUCTIONS.....	13
6.8 CERTIFICATIONS	13
6.9 APPLICABLE LAWS	13
6.10 PRIORITY OF DOCUMENTS	14
6.11 DEFENCE CONTRACT	14
6.12 SACC <i>MANUAL</i> CLAUSES.....	14
6.13 SACC <i>MANUAL</i> CLAUSES (DELIVERY)	14
ANNEX “A” - REQUIREMENT	16

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with the requirement.

1.2 Requirement

The contractor must provide the goods in accordance with the technical requirements stated at Annex "A".

1.2.1 Delivery Requirement

Delivery is requested to be completed by Septemeber 30, 2015.

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 Trade Agreements

"The requirement is subject to the provisions the Agreement on Internal Trade (AIT)."

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](#) (2015-07-03) 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

SACC Reference	Section	Date
A9033T	Financial Capability	2012-07-16
B1000T	Condition of Material	2014-06-26

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

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

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
File No. - N° du dossier
hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

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

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

- Section I: Technical Bid (2 hard copies)
- Section II: Financial Bid (1 hard copies)
- Section III: Certifications (1 hard copies)
- Section IV: Additional Information (1 hard copies)

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

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

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

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

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

Section I: Technical Bid

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

Section II: Financial Bid

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

3.1.1 Pricing - Multi-Item Bid Solicitation

Bidders do not have to quote a price for every item in the bid solicitation in order to be evaluated. Bidders may withdraw one or more items after bid closing but prior to contract award by advising in writing the Contracting Authority.

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
File No. - N° du dossier
hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

3.1.2 Exchange Rate Fluctuation

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

3.1.3 Delivery Offered

While delivery is requested as indicated above, the best delivery that could be offered is_____.

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

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

4.1.1.1 Mandatory Technical Criteria

The following Mandatory requirements must be submitted with the bid for evaluation

- Technical compliance herein;
- **The supplier or company that submits technical drawing must provide the following information:**
- **Phase 1:** supply readable drawings with detailed information so the TA can do the first evaluation from the drawing. (i.e the drawing shall be as detailed as possible with the following information: part number for connector; complete cable specification and pin out, layout etc. (cable specification can be attached to the Drawing). If the drawings are not readable, the TA will disregard the submission from the company
- **Phase 2:** If the drawings and the cable specification pass the first evaluation the company(s) shall supply to the TA a sample of approx. 1 meter of fibre optic cable, multi or single mode with the connector (plug) or (receptacle). If the sample(s) are not compliant to the pre-submitted drawing, the bid will be considered non-compliant.

4.1.2 Financial Evaluation

4.1.2.1 Pricing Basis

The bidder must quote firm unit prices in Canadian dollars, DDP Delivered Duty Paid (destination), Applicable Taxes extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included as applicable.

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 on an item by item basis 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. 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 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](#), 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 – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

5.2.2 General Environmental Criteria Certification

By submitting the bid, the bidder certifies that the information submitted in the General Environmental Criteria table found at Table 1 is accurate and complete.

By submitting the bid the Bidder certifies that it meets, and will continue to meet throughout the duration of any resulting contract, a minimum of four out of seven requirements identified in the General Environmental Criteria Table found at Table 1;

Additional Information

The Bidder must complete Table 1 by inserting a checkmark next to every criteria that are met. Bidders are requested to submit Table 1 with their bid. As this is a new procedure, Canada reserves the right to request Table 1 after bid closing. The Contracting Authority will inform the Bidder of a time frame within which to provide it. Failure to provide Table 1 within the required time frame will render the bid non-responsive.

The Contractor must meet and continue to meet four out of seven criterions during the entire duration of the contract.

Green practices within supplier's organization:	Insert a checkmark for each criteria that is met
Promotes a paperless environment through directives, procedures and/or programs.	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client.	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification.	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	
Registered to ISO 14001 or has an equivalent environmental management system in place	

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
File No. - N° du dossier
hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

5.2.3 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) website.

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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" 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 The following security requirements (SRCL and related clauses provided by ISP) apply and form part of the Contract.

6.2 Requirement

The contractor must provide the goods in accordance with the technical requirements stated at Annex "A".

6.2.1 SACC Manual Clauses

SACC Reference	Section	Date
<u>B7500C</u>	Excess Goods	2006-06-16

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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2015-07-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.1.1 SACC Manual Clauses

SACC Reference	Section	Date
<u>C2800C</u>	Priority Rating	2013-01-28
<u>C2801C</u>	Priority Rating - Canadian Contractors	2014-11-27

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before _____ (Delivery as offered and as accepted will be inserted at contract award).

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Ruth Kelly - Supply Specialist
Public Works and Government Services Canada - Acquisitions Branch
Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5
Telephone: (819) 420-0343 Facsimile: (819) 953-4944
E-mail address: ruth.kelly@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.

6.5.1 Contractor's Representative

Name and telephone number of the person responsible for: (will be inserted at contract)

General enquiries

Name: _____
Telephone: _____ Facsimile: _____
E-mail: _____

Delivery follow-up

Name: _____
Telephone: _____ Facsimile: _____
E-mail: _____

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 unit price(s) as specified in the contract. Customs duties are included and Applicable Taxes are extra.

6.6.2 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

6.6.3 SACC Manual Clauses

SACC Reference	Section	Date
<u>C2611C</u>	Customs Duties - Contractor Importer	2007-11-30
<u>G1005C</u>	Insurance	2008-05-12

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:

National Defence Headquarters - MGen George R. Pearkes Building
101 Colonel By Drive, Ottawa, ON, K1A 0K2
Attention: André Dubreuil – DLP 3-3-1C1.
 - (c) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

Department of Public Works and Government Services - "HN" Division
7B3 Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5
Attention: Ruth Kelly

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

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 (2015-07-03) Goods (Medium Complexity);
- (c) Annex A - Requirement;
- (d) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: "as clarified on _____" or "as amended on _____" and insert date(s) of clarification(s) or amendment(s)*)

6.11 Defence Contract

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

6.12 SACC Manual Clauses

SACC Reference	Section	Date
D5545C	ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)	2010-08-16

6.12.1 NATO Commercial and Government Entity Code (NCAGE) Traceability

Material supplied for the items specified in this contract is subject to investigation by Canada. Material which can neither be demonstrated by the contractor as having originated directly from the NCAGE specified for the item in this contract, nor as supplied with the specific written permission of this specified NCAGE, are subject to the following action by Canada.

Canada may either:

- a) terminate the contract for default with respect to that item, return the item to the Contractor at the Contractor's risk and expense, and demand and receive from the Contractor (who shall forthwith so pay) all reprourement and other costs incurred by Canada, including any increased costs required for the purpose of expediting production; or
- b) retain the item, and demand and receive from the Contractor (who shall forthwith so pay) the difference between the Contractor's costs relating to the item, as determined by Canada, and the costs which, in Canada's opinion, the Contractor would have incurred had it obtained and supplied an item which did not differ in any way from that specifically required under the contract.

6.13 SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
D2000C	Marking	2007-11-30
D2001C	Labelling	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30

6.13.1 Shipping Instructions - Delivery at Destination

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

- (a) Delivered Duty Paid (DDP) (Montreal, Quebec) Incoterms 2000 for shipments from a commercial contractor.

6.13.2 Preparation for Delivery (DND)

The Contractor must prepare item numbers 001 – 005 for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package item numbers 001 – 005 in quantities of 1 per package.

6.13.3 Shipping – Scheduling (DND)

The Contractor must deliver the goods to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

- (a) 25 CF Supply Depot Montreal
Montreal, Qc
Telephone: 1-866-935-8673 (toll free), or
514-252-2777, ext. 2363 / 4673 / 4282

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
File No. - N° du dossier
hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

ANNEX "A"
REQUIREMENT

ITEM DESCRIPTION	QTY	UNIT OF ISSUE	UNIT PRICE DEST.
<p>001 - CABLE ASSEMBLY,FIBER OPTIC, 12-CHANNEL PLUG TO PLUG P/N FS4H 8000 MILITARY TACTICAL FIBER OPTIC; BREAKOUT CABLE, 300 METERS LONG,ON RFO-1000 SHANE REEL , <u>MINIMUM CABLE SPECIFICATION</u> FIBER TYPE 62.5UMCORE DIA. RADIATION HARDENED; 125UM CLADDING DIA.; 500UM COATING DIA.; 900UM BUFFER DIA.HARD ELASTOMERIC BUFFER, 2.0 MM ELASTOMERIC SUBCABLE JACKET 0.275 NUMERICAL APERTURE; 100KPSI PROOF TEST LEVEL; 850NM WAVELENGTH 3.0DB/KM ATTENUATION AND 160 MHZ-KM BANDWIDTH; 2200N MAX. TENSILE LOAD,MINIMUM OPERATING TEMPARATURE -45 CELCIUS; STORAGE TEMPERATURE MINIMUM-60 CELCIUS; CABLE OUTER JACKET MADE OF CORE-LOCKED FLAME RETARDANT POLYURETHANE TACTICAL JACKET COLOR FLAT BLACK;HARD ELASTOMER EXTRUDED OVER POLYESTER YARN STRENGH MEMBER, MIN. 11.0MM CABLE DIAMETER 12 CM BEND RADIUS; MARKING ON CABLE EVERY TWO (2) FEET ALONG LENGTH, PERFORMANCE SPECIFICATION MIL-PRF-85045; 300M CABLE ASSEMBLY WITH CONNECTORS TFOCA II AND TFOCA II; PART NUMBER SUFFIX (XX) STANDS F OR: X = TFOCA II CONNECTOR AND X = TFOCA II CONNECTOR.</p> <p>P/N Offered:_____</p> <p>NSCM/CAGE Code offered:_____</p>	30	EA	

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
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hn313W8486-162697

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ITEM DESCRIPTION	QTY	UNIT OF ISSUE	UNIT PRICE DEST.
<p>002 - CABLE ASSEMBLY,FIBER OPTIC, 12-CHANNEL SM PLUG TO PLUG P/N FS4H-8000 AND MILITARY TACTICAL FIBER OPTIC BREAKOUT CABLE, 100 METERS LONG, ON RFO-500 SHANE REEL, MINIMUM CABLE SPECIFICATION FIBER TYPE 8.3UM CORE RADIATION HARDENED DIAMETER; 125UM CLADDING DIAMETER; 500UM COATING DIAMETER; 900UM DIAMETER HARD ELASTOMERIC BUFFER, 2.0 MM ELASTOMERIC SUBCABLE JACKET ;0.13 NUMERICAL APERTURE; 100KPSI PROOF TEST LEVEL; WAVELENGTH IS 1300NM WITH 0.5DB/KM ATTENUATION AT 0.092/NM SQUARED-KM; 42 KG/KM CABLE WEIGHT; 11.0MM CABLE DIAMETER; 2200N MAX. TENSILE LOAD 12 CM BEND RADIUS, 550N MAX OPERATING TENSILE LOAD. MINIMUM OPERATING TEMPARATURE -45 CELCIUS; MINIMUM STORAGE TEMPERATURE -60 CELCIUS; CABLE OUTER JACKET MADE OF CORE-LOCKED FLAME RETARDANT POLYURETHANE TACTICAL JACKET COLOR FLAT BLACK; STRENGH MEMBER HARD ELASTOMER EXTRUDED OVER POLYESTER YARN; MARKING ON CABLE EVERY TWO (2) FEET ALONG LENGTH; PERFORMANCE SPECIFICATION MIL-PRF-85045100 METERS CABLE ASSEMBLY WITH CONNECTORS TFOCA II AND TFOCA II; PART NUMBER SUFFIX (XX) STANDS F OR: X = TFOCA II CONNECTOR AND X = TFOCA II CONNECTOR</p> <p>P/N Offered: _____</p> <p>NSCM/CAGE Code offered: _____</p>	40	EA	

Solicitation No. - N° de l'invitation
W8486-162697/B
Client Ref. No. - N° de réf. du client
W8486-162697

Amd. No. - N° de la modif.
File No. - N° du dossier
hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

ITEM DESCRIPTION	QTY	UNIT OF ISSUE	UNIT PRICE DEST.
<p>003 – CABLE ASSEMBLY,FIBER OPTIC, 12-CHANNEL SM PLUG TO 12 ST CONNECTOR P/N FS4H-8000 AND MILITARY TACTICAL FIBER OPTIC BREAKOUT CABLE, 3 METERS LONG, , MINIMUM CABLE SPECIFICATION FIBER TYPE 8.3UM CORE RADIATION HARDENED DIAMETER; 125UM CLADDING DIAMETER; 500UM COATING DIAMETER; 900UM DIAMETER HARD ELASTOMERIC BUFFER, 2.0 MM ELASTOMERIC SUBCABLE JACKET ;0.13 NUMERICAL APERTURE; 100KPSI PROOF TEST LEVEL; WAVELENGTH IS 1300NM WITH 0.5DB/KM ATTENUATION AT 0.092/NM SQUARED-KM; 42 KG/KM CABLE WEIGHT; 11.0MM CABLE DIAMETER; 2200N MAX. TENSILE LOAD 12 CM BEND RADIUS, 550N MAX OPERATING TENSILE LOAD. MINIMUM OPERATING TEMPARATURE -45 CELCIUS; MINIMUM STORAGE TEMPERATURE -60 CELCIUS; CABLE OUTER JACKET MADE OF CORE-LOCKED FLAME RETARDANT POLYURETHANE TACTICAL JACKET COLOR FLAT BLACK; STRENGTH MEMBER HARD ELASTOMER EXTRUDED OVER POLYESTER YARN; MARKING ON CABLE EVERY TWO (2) FEET ALONG LENGTH; PERFORMANCE SPECIFICATION MIL-PRF-85045100 METERS CABLE ASSEMBLY WITH CONNECTORS TFOCA II AND TFOCA II; PART NUMBER SUFFIX (XX) STANDS F OR: X = TFOCA II CONNECTOR AND X = TFOCA II CONNECTOR</p> <p>P/N Offered: _____</p> <p>NSCM/CAGE Code offered: _____</p>	80	EA	

Solicitation No. - N° de l'invitation
W8486-162697/B
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W8486-162697

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hn313W8486-162697

Buyer ID - Id de l'acheteur
hn313
CCC No./N° CCC - FMS No./N° VME

ITEM DESCRIPTION	QTY	UNIT OF ISSUE	UNIT PRICE DEST.
<p>004 – CABLE ASSEMBLY,FIBER OPTIC, 4-CHANNEL JAM NUT RECEPTACLE <u>P/N FS4H8000</u> AND MILITARY TACTICAL FIBER OPTIC <u>BREAKOUT CABLE</u>, 1.5 METER LONG, TO LC; ASSEMBLIES, <u>MINIMUM CABLE SPECIFICATION</u> FIBER TYPE 62.5UM CORE DIA.; 125UM CLADDING DIA.; 500UM COATING DIA.; 900UM BUFFER DIA.; 0.275 NUMERICAL APERTURE; 100KPSI PROOF TEST LEVEL; 850NM WAVELENGTH 3.0 DB/KM ATTENUATION AND 160 MHZ-KM BANDWIDTH; 2200N MAX. TENSILE LOAD, MINIMUM OPERATING TEMPARATURE -45 CELCIUS; STORAGE TEMPERATURE MINIMUM -60 CELCIUS; CABLE OUTER JACKET MADE OF POLYURETHANE COLOR FLAT BLACK; ARAMID YARN STRENGH MEMBER, MIN. 7.0MM CABLE DIAMETER 14 OCM BEND RADIUS; MARKING ON CABLE EVERY TWO (2) FEET ALONG LENGTH . <u>STRAIN RELIEF MUST BE FROM TREAD OF THE RECEPTICAL CONNECTOR TO THE CABLE JACKET</u>, 1.5 METER CABLE ASSEMBLY WITH CONNECTORS TFOCA II AND MILL LC; PART NUMBER STANDS FOR: X = TFOCA II CONNECTOR AND Y = MIL LC CONNECTOR</p> <p>P/N Offered: _____</p> <p>NSCM/CAGE Code offered: _____</p>	100	EA	

Solicitation No. - N° de l'invitation
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hn313
CCC No./N° CCC - FMS No./N° VME

ITEM DESCRIPTION	QTY	UNIT OF ISSUE	UNIT PRICE DEST.
<p>005 – CABLE ASSEMBLY,FIBER OPTIC, 12-CHANNEL PLUG TO 3X 4CHANEL PLUG P/N FS8H 8000(12 CHANEL)AND 3 FS4H 1000 (4 CHANEL) CONNECTOR MILITARY TACTICAL FIBER OPTIC; BREAKOUT CABLE, 2 METERS LONG, <u>MINIMUM CABLE SPECIFICATION</u> FIBER TYPE 62.5UMCORE DIA. RADIATION HARDENED; 125UM CLADDING DIA.; 500UM COATING DIA.; 900UM BUFFER DIA.HARD ELASTOMERIC BUFFER, 2.0 MM ELASTOMERIC SUBCABLE JACKET 0.275 NUMERICAL APERTURE; 100KPSI PROOF TEST LEVEL; 850NM WAVELENGTH 3.0DB/KM ATTENUATION AND 160 MHZ-KM BANDWIDTH; 2200N MAX. TENSILE LOAD,MINIMUM OPERATING TEMPARATURE -45 CELCIUS; STORAGE TEMPERATURE MINIMUM-60 CELCIUS; CABLE OUTER JACKET MADE OF CORE-LOCKED FLAME RETARDANT POLYURETHANE TACTICAL JACKET COLOR FLAT BLACK;HARD ELASTOMER EXTRUDED OVER POLYESTER YARN STRENGH MEMBER, MIN. 7.0MM CABLE DIAMETER 12 CM BEND RADIUS; MARKING ON CABLE EVERY TWO (2) FEET ALONG LENGTH, PERFORMANCE SPECIFICATION MIL-PRF-85045; 2M CABLE ASSEMBLY WITH CONNECTORS TFOCA II AND TFOCA II; PART NUMBER SUFFIX (XX) STANDS F OR: X = TFOCA II CONNECTOR AND X = TFOCA II CONNECTOR</p> <p>P/N Offered: _____</p> <p>NSCM/CAGE Code offered: _____</p>	60	EA	