

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 a Standing Offer Demande d'offre à commandes

National Individual Standing Offer (NISO)

Offre à commandes individuelle nationale (OCIN)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Fuel & Construction Products Division
L'Esplanade Laurier,
140 O'Connor Street,
East Tower, 4th floor,
Ottawa
Ontario
K1A 0S5

Title - Sujet EXPEDITIONARY BARRIER SYSTEM ITEMS		
Solicitation No. - N° de l'invitation W8486-195833/A		Date 2019-06-14
Client Reference No. - N° de référence du client W8486-195833		GETS Ref. No. - N° de réf. de SEAG PW-\$\$HL-668-77298
File No. - N° de dossier hl668.W8486-195833	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-07-24		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
Delivery Required - Livraison exigée See Herein		
Address Enquiries to: - Adresser toutes questions à: Boyer, Michel		Buyer Id - Id de l'acheteur hl668
Telephone No. - N° de téléphone (613)295-9383 ()		FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes		
Security - Sécurité This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.		

Instructions: See Herein

Instructions: Voir aux présentes

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



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	25 Canadian Forces Supply Depot 6363 NOTRE DAME EST MONTREAL QC H1N 3V9 CANADA	W8486	DEPARTMENT OF NATIONAL DEFENCE 101 COLONEL BY DR. NDHQ DGLEPM OTTAWA Ontario K1A0K2 Canada



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire		Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
						Destination	FOB/FAM			
1	As per Annex A FY 2019-20	D - 1	W8486	1	Each	\$	\$		See Herein	
2	As per Annex A FY 2020-21	D - 1	W8486	1	Each	\$	\$		See Herein	
3	As per Annex A FY 2021-22	D - 1	W8486	1	Each	\$	\$		See Herein	
4	As per Annex A FY 2022-23	D - 1	W8486	1	Each	\$	\$		See Herein	
5	As per Annex A FY 2023-24	D - 1	W8486	1	Each	\$	\$		See Herein	

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- | | |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement; |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO; |
| Part 3 | Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified; |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection; |
| Part 5 | Certifications and Additional Information: includes the certifications and additional information to be provided; |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:

7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer. |

The Annexes include the Statement of Work, the Technical Proposal Requirements and Bid Evaluation, the Pricing Schedule, and the Standing Offer Reporting Requirement

1.2 Summary

- 1.2.1** The Department of National Defence (DND) has a requirement to procure Expeditionary Barrier Systems (EBS) on an "as and when required" basis as described in Annex "A" – Statement of Work. The EBS is a collapsible cellular system that is filled with dirt and rock and stacked to create a wall. The intended use of the EBS is to protect personnel from small arms projectiles, near misses from artillery/mortar rounds, and generic blasts in a variety of climates.

The period of the Standing Offer (SO) is for an initial period of two (2) years.

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional three (3) periods of one (1) year each, under the same terms and conditions and as per the Basis of Payment. The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority sixty (60) days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

1.2.1.1 Note to RFSO (Drawings)

Drawings for all items referred to in this RFSO will be forwarded to interested Offerors by the Director, Supply Chain Operations, DSCO, National Defence Headquarters, as a Technical Data Package (TDP) under a separate cover.

Technical Data Packages are required. It is the Offerors' responsibility to request these packages, in writing, from the Standing Offer Authority in a timely fashion.

1.2.2 The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP), and the Canadian Free Trade Agreement (CFTA).

1.2.3 This RFSO allows offerors to use the epost Connect service provided by Canada Post Corporation to transmit their offers electronically. Offerors must refer to Part 2 of the RFSO entitled Offeror Instructions and Part 3 of the RFSO entitled Offer Preparation Instructions, for further information on using this method.

1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within fifteen (15) working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

1.4 Anticipated migration to an e-Procurement Solution (EPS)

Canada is currently developing an online EPS for faster and more convenient ordering of goods and services. In support of the anticipated transition to this system and how it may impact any resulting Standing Offer that is issued under this solicitation, refer to 7.13 Transition to an e-Procurement Solution (EPS).

The Government of Canada's [press release](#) provides additional information.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006 \(2018-05-22\)](#) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of [2006](#), Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.1.1 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
M1004T	Condition of Material - Offer	2016-01-28

2.2 Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSO.

Note: For offerors choosing to submit using epost Connect for offers closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Offers 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 [2006](#), or to send offers through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than ten (10) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors 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 offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

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2.4 **Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 offerors.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1 Offer Preparation Instructions

If the Offeror chooses to submit its offer electronically, Canada requests that the Offeror submits its offer in accordance with section 08 of the 2006 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation. The offer must be gathered per section and separated as follows:

Section I: Technical Offer
Section II: Financial Offer
Section III: Certifications

If the Offeror chooses to submit its offer in hard copies, Canada requests that the Offeror provides its offer in separately bound sections as follows:

Section I: Technical Offer (four (4) hard copies)
Section II: Financial Offer (one (1) hard copy)
Section III: Certifications (one (1) hard copy)

If the Offeror is simultaneously providing copies of its offer 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.

Prices must appear in Annex "C" – Pricing Schedule only. No prices must be indicated in any other section of the offer.

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

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

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, Offerors 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 Offer

The Offeror must submit one (1) copy of the tender document in its entirety, duly completed and signed.

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

Section II: Financial Offer

Offerors must submit their financial offer in accordance with Annex "C"- Pricing Schedule, and the Basis of Payment.

3.1.1 Electronic Payment of Invoices - Offer

Canada requests that Offerors complete option 1 or 2 below:

1. ☐ Electronic Payment Instruments will be accepted for payment of invoices. The following Electronic Payment instrument(s) are accepted:
☐ Direct Deposit (Domestic and International);
☐ Electronic Data Interchange (EDI).
2. ☐ Electronic Payment Instruments will not be accepted for payment of invoices.

The Offeror is not obligated to accept payment by Electronic Payment Instruments

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

3.1.2 Exchange Rate Fluctuation Risk Mitigation

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

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Section III: Certifications Offerors must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

4.1.1 Technical Evaluation

All offers must be completed in full and provide all of the information requested in the RFSO to enable full and complete evaluation.

The Offeror must provide documentation showing how they meet the technical requirement as detailed in Annex "B" - Technical Proposal Requirements and Bid Evaluation.

The technical evaluation will be done in two (2) phases, as follows:

- 1) Phase 1 - Evaluation of Key Mandatory Requirements; and
- 2) Phase 2 - Evaluation Trial (testing and trials).

To proceed to Phase 2, the Offeror must be compliant in all Key Mandatory Requirements of Phase 1.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) The Offeror must offer firm prices as per Annex "C" – Pricing Schedule in Canadian Funds, Applicable Taxes excluded, DDP Delivered Duty Paid to destination(s) Incoterms 2000, Custom duties included for each system;
- b) The Offeror's financial bid must be in accordance with the Basis of Payment and Annex "C" – Pricing Schedule; and
- c) Offerors are to provide a volume discount as per Annex "C" – Pricing Schedule

NOTE: The volume discount will not be considered to determine the lowest aggregate price.

4.2 Basis of Selection

1. To be declared responsive, an offer must:
 - a. comply with all the requirements of the Request for Standing Offer;
 - b. meet all Key Mandatory Requirements of Phase 1 of the Technical Evaluation; and
 - c. be compliant with the testing and trials of Phase 2.
2. The offers that do not comply with the requirements at a., b. or c. will be declared non-responsive.
3. The responsive bid with the lowest total aggregate price, will be recommended for issuance of a Standing Offer.

The aggregate price will be calculated as follows:

Each firm unit price proposed by the Offeror indicated in Annex "C" – Pricing Schedule will be multiplied by the estimated yearly quantity required for each item, for each destination and for each period. The total price for Period 1 and Period 2 of each item and each destination will then

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be added. The total obtained (Period 1 and Period 2) for all items will be added together to obtain the total aggregate price. The estimated yearly quantities and the destinations are specified in Annex "C" – Pricing Schedule. Please see calculation example below.

Example of calculation of total aggregate price

A	B	C	D	F	G
Item #	Destination	Annual Estimated Quantity	Price Period 1	Price Period 2	Total
1A	Montreal	10	= D * C	= F * C	= D + F
1A	Edmonton	10	= D * C	= F * C	= D + F
2A	Montreal	350	= D * C	= F * C	= D + F
2A	Edmonton	350	= D * C	= F * C	= D + F
Prix total global					=SUM G

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all offerors must provide with their offer, **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 the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer 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 Offeror 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 - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror 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-Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

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

The Offeror must provide the Standing Offer Authority with a completed annex titled Federal Contractors Program for Employment Equity - Certification, before the issuance of a Standing Offer. If the Offeror is a Joint Venture, the Offeror must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

5.2.3 Additional Certifications Precedent to Issuance of a Standing Offer

5.2.3.1 Canadian Content Certification

The Offeror must select and complete one of the following two certification statements.

- A) The Offeror certifies that the Offeror is registered or meets ISO 14001.

Offerors' Authorized Representative Signature

Date

Or

- B) The Offeror certifies that the Offeror meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Offeror must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Offerors' organization	Insert a checkmark for each criterion 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 purchases 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.	

Offerors' Authorized Representative Signature

Date

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PART 6 - SECURITY, FINANCIAL AND INSURANCE REQUIREMENTS

6.1 Security Requirements

There is no security requirement applicable to this RFSO.

6.2 Financial Capability

Not applicable

6.3 Insurance Requirements

See Part 7 – Standing Offer and Resulting Contract Clauses, Section B. Resulting Contract Clauses, Article 7.6, Insurance.

PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

7.1 Offer

The Offeror offers to supply Expeditionary Barrier Systems in accordance with the Statement of Work at Annex "A".

7.2 Security Requirements

There is no security requirement applicable to the Standing Offer.

7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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.

7.3.1 General Conditions

[2005](#) (2017-06-21) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

7.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

The Offeror must provide this data in accordance with the reporting requirements detailed in Annex "D". If some data is unavailable, the reason must be indicated in the report. If no goods or services are provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted on a quarterly basis to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

first quarter: April 1 to June 30
second quarter: July 1 to September 30
third quarter: October 1 to December 31
fourth quarter: January 1 to March 31

The data must be submitted to the Standing Offer Authority no later than fifteen (15) calendar days after the end of the reporting period.

7.4 Term of Standing Offer

7.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is for two (2) years starting at time of issuance of the Standing Offer to _____. *(date to be determined at time of issuance of Standing Offer)*

7.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional three (3) one (1) year periods, under the same conditions and at the rates

or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority sixty (60) days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

7.4.2.1 Economic Price Adjustment (EPA)

Firm prices, for subsequent option periods of the Standing Offer will be adjusted to reflect changes in the following factors:

Increase or decrease in the price of the components will be adjusted to reflect the change in the Statistics Canada, Industrial product price index, by product, Monthly (URL <https://www150.statcan.gc.ca/t1/tbl1/en/cv.action?pid=1810003001>) using section 47111 Prefabricated Metal Buildings and Components. The increase or decrease will be calculated using average price index of the previous twelve (12) months and multiplying each unit price divided by 100.

7.4.2.2 Discontinuation of Escalation Indices

If the index set out in this Standing Offer is discontinued, the parties agree to immediately establish a replacement index or formulate adjustments consistent with those set-forth in the Standing Offer.

7.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "C" – Pricing Schedule of the Standing Offer.

7.5 Authorities

7.5.1 Standing Offer Authority

The Standing Offer Authority is:
Michel Boyer, Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch, Commercial and Alternative Acquisitions Management Sector
Logistics, Electrical, Fuel & Transportation Directorate
Fuel and Construction Products Division
L'Esplanade Laurier
140 O'Connor Street, 4th Floor, East Tower, 4191
Ottawa, ON K1A 0S5
Telephone: 613-295-9383
Facsimile: 613-943-7620
michel.boyer@tpsgc-pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

7.5.2 Procurement Authority

The Procurement Authority for the Standing Offer is:

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

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

The Procurement Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up under the Standing Offer and is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

7.5.3 Technical Authority

The Technical Authority for the Standing Offer is:

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

The Technical Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up under the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

7.5.4 Offeror's Representative

Name and telephone number of the person responsible for:

	General Enquiries	Delivery Follow-up
Name:	_____	_____
Telephone No.:	_____	_____
Facsimile No.:	_____	_____
E-mail address:	_____	_____

7.6 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is:

Department of National Defence
DLP 6-3-3-1
MGen George R. Pearkes Bldg.
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

7.7 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 2 and 3 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the

Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.

2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:

- PWGSC-TPSGC 942 Call-up Against a Standing Offer

or

3. An equivalent form or electronic call-up document which contains at a minimum the following information:
- standing offer number;
 - statement that incorporates the terms and conditions of the Standing Offer;
 - description and unit price for each line item;
 - total value of the call-up;
 - point of delivery;
 - confirmation that funds are available under section 32 of the Financial Administration Act;
 - confirmation that the user is an Identified User under the Standing Offer with authority to enter into a contract.

7.8 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed **\$100,000.00** (Applicable Taxes included).

7.9 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of **\$2,727,600.00** (*Applicable Taxes excluded*) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or two (2) months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

7.10 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions [2005](#) (2017-06-21), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010A (2018-06-21);
- e) Annex "A", Statement of Work;
- f) Annex "C", Pricing Schedule;
- g) the Offeror's offer dated _____: "as clarified on _____" "as amended on _____".

7.11 Certifications and Additional Information

7.11.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

7.12 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____
(*insert the name of the province or territory as specified by the Offeror in its offer, if applicable*).

7.13 Transition to an e-Procurement Solution (EPS)

During the period of the Standing Offer, Canada may transition to an EPS for more efficient processing and management of individual call-ups for any or all of the SO's applicable goods and services. Canada reserves the right, at its sole discretion, to make the use of the new e-procurement solution mandatory.

Canada agrees to provide the Offeror with at least a three-month notice to allow for any measures necessary for the integration of the Offer into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Offeror chooses not to offer their goods or services through the e-procurement solution, the Standing Offer may be set aside by Canada.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

7.1 Statement of Work

The Contractor must provide the items detailed in the call-up against the Standing Offer.

7.2 Standard Clauses and Conditions

7.2.1 General Conditions

2010A (2018-06-21), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

7.3 Term of Contract

7.3.1 Delivery Date

Delivery must be completed in accordance with the call-up against the Standing Offer.

7.4 Payment

7.4.1 Basis of Payment – Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as per Annex "C" – Pricing Schedule, DDP to destinations, CF25 Supply Depot, Montreal, Quebec, and CF7 Supply Depot, Edmonton, Alberta. Custom duties are included and Applicable Taxes are extra.

The Contractor will apply to his invoice the applicable volume discount, as per Annex "C" – Pricing Schedule.

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 Standing Offer Authority before their incorporation in the Work.

7.4.3 Method of Payment

SACC Manual clause H1001C (2008-05-12) Multiple Payments.

7.4.4 Electronic Payment of Invoices – Call-up

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

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);

7.4.5 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.

3. The total price paid by Canada on each invoice will be adjusted at the time of payment. The exchange rate adjustment amount will be calculated in accordance with the following formula:
Exchange rate adjustment = $FCC \times Qty \times (i_1 - i_0) / i_0$
where formula variables correspond to:

FCC

Foreign currency component (per unit)

Qty



Quantity of units

i_0

Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]). The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date. The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

i_1

Exchange rate for adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]). The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

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

7.5 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be delivered as follows:
 - a. The original and one (1) copy to the consignee.
 - b. One (1) copy to:
DND, Richelieu Building
975 St-Joseph Boulevard
Gatineau, QC K1A 0K2

- Attention DLP 6-3-3-1 to be inserted afterwards
- c. One (1) copy to the Standing Offer Authority as identified at 7.5 Authorities.

7.6 Insurance

SACC Manual clause [G1005C](#) (2016-01-28) Insurance

7.7 Defence Contract

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

7.8 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
A1009C	Work Site Access	2008-05-12
B4042C	Identification Markings	2008-05-12
B7010C	Marking and Labelling	2008-05-12
B7500C	Excess Goods	2006-06-16
C2611C	Custom Duties – Contractor Importer	2007-11-30
D2025C	Wood packaging materials	2017-08-17
D5545C	ISO 9001:2015 – Quality Management Systems – Requirements (Quality Assurance Code C)	2019-05-30
D6010C	Palletization	2007-11-30

7.9 Packaging Requirement using Specification D-LM-008-36/SF-000

The Contractor must prepare all items 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.

7.10 Shipping Instructions – Delivery and destination schedules unknown

1. The Contractor must ship the goods prepaid DDP – Delivered Duty Paid 25 CF Supply Depot Montreal, Montreal, Quebec and 7 CF Supply Depot Lancaster Park, Edmonton, Alberta. Unless otherwise directed, delivery must be made by the most economical means. Shipping charges must be shown as a separate item on the Contractor's invoice. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of custom duties and Applicable Taxes.
2. The Contractor must deliver the goods to the 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 location shown below. The consignee may refuse shipments when prior arrangements have not been made.

- a. 25 CF Supply Depot Montreal
Montreal, Quebec
Email: 25DAFCTrafficRDV@forces.gc.ca
- b. 7 CF Supply Depot Lancaster Park
Edmonton, Alberta
Email: Edm-7CFSD-Cust-Svcs@intern.mil.ca

ANNEX "A"

STATEMENT OF WORK

1.0 SCOPE

1.1 Purpose

- 1.1.1 The purpose of this Statement of Work (SOW) is to define the work requirements for the Expeditionary Barrier System (EBS), which will be used by the Canadian Armed Forces (CAF) in their assembly of a protection structure.

1.2 Background

- 1.2.1 EBS cells have become a widespread element in expeditionary force protective designs in response to the demands of current conflict regions as well as meeting more traditional revetment requirements.

1.3 Intended Use

- 1.3.1 The intended use of the EBS is to stop small arms, near misses from artillery/mortar rounds, and generic blast in a variety of climates.
- 1.3.2 The product will be able to accommodate the wide range of fill material available to expeditionary forces which include fine sand through coarse rock. The most likely technique for filling the cells would be through the use of heavy equipment.

1.4 Acronyms and Abbreviations

AETCP	Allied Environmental Conditions Testing Publications
ASTM	American Society for Testing and Materials
BG	Battle Group
CA	Contracting Authority
CAF	Canadian Armed Forces
CDRL	Contract Data Requirements List
CFSD	Canadian Forces Supply Depot
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
DCSEM	Director Combat Support Equipment Management
DGLEPM	Director General Land Equipment Program Management
DID	Data Item Description
DMC	Demilitarization Code
DML	Demilitarization List
DND	Department of National Defence
DLP	Director of Land Procurement
DLR	Director of Land Requirements
DPA	Defence Product Act
DSCO	Director Supply Chain Operation
EBS	Expeditionary Barrier System
ECL	Export Control List
ECCN	Export Control Classification Number
EHS	Environmental Health and Safety
FAT	First Article Test
GALFAN	Galvanization Fantastic
IAW	In Accordance With
ILS	Integrated Logistic Support

ILSM	Integrated Logistics Support Manager
IP	Initial Provisioning
IPC	Initial Provisioning Conference
IPGC	Initial Provisioning Guidance Conference
IPM	Illustrated Parts Manual
ISL	Interim Spares List
ISO	International Standards Organisation
kN	KiloNewton
MSDS	Material Safety Data Sheet
NATO	North Atlantic Treaty Organization
NCAGE	NATO Commercial and Government Entity
NDHQ	National Defence Headquarters
NDID	National Defence Index of Documentation
NDQAR	National Defence Quality Assurance Representative
NISO	National Information Standards Organization
NSCM	NATO Supply Code for Manufacturers
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
PA	Procurement Authority
PD	Provisioning Documentation
PDF	Portable Document Format
PMP	Project Management Plan
PHST	Packaging, Handling, Storage and Transportation
PRM	Progress Review Meeting
PSPC	Public Works and Government Services Canada
QMS	Quality Management System
QRC	Quick Reference Card
RFP	Request for Proposal
RH	Relative humidity
SOW	Statement of Work
SOA	Standing Offer Agreement
SPTD	Supplementary Provisioning Technical Documentation
TA	Technical Authority
TAC	Technical Acceptance Certificate
TBD	To Be Determined
UV	Ultra violet light
WBS	Work Breakdown Structure
WHMIS	Workplace Hazardous Materials Information System
Yd	Yard

2.0 APPLICABLE DOCUMENTS

2.1 References

- 2.1.1 Whereas mentioned, the following Standards must be used for the preparation of deliverables to the extent specified in this SOW:

GOVERNMENT FURNISHED INFORMATION

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

D-01-400-001/SG-000	2018-01-31	STANDARD - ENGINEERING DRAWING PRACTICES
D-01-400-002/SF-000	2018-02-23	SPECIFICATION LEVELS OF ENGINEERING DRAWINGS
D-LM-008-001/SF-001	1983-02-03	METHODS OF PACKAGING
D-LM-008-002/SF-001	1991-08-01	SPECIFICATION FOR MARKING FOR STORAGE AND SHIPMENT
D-LM-008-011/SF-001	1988-11-10	PREPARATION AND USE OF PACKAGING REQUIREMENTS CODES
D-LM-008-036/SF-000	2013-12-01	DND MINIMUM REQUIREMENT FOR MANUFACTURER'S STANDARD PACK

COMMERCIALLY AVAILABLE

<u>REFERENCE NUMBER</u>	<u>PROMULGATION DATE</u>	<u>REFERENCE TITLE</u>
ASTM D5035	N/A	STANDARD TEST METHOD FOR BREAKING FORCE AND ELONGATION OF TEXTILE FABRICS (STRIP METHOD)
ASTM A185	2013	STANDARD SPECIFICATION FOR STEEL WELDED WIRE REINFORCEMENT PLAIN, AND CONCRETE
ASTM D4751-12	N/A	STANDARD TEST METHOD FOR DETERMINING APPARENT OPENING SIZE OF A GEOTEXTILE
ASTM E8	N/A	TENSILE TESTING OF METALS
ASTM D4355	N/A	STANDARD TEST METHODS OF DETERIORATION OF GEOTEXTILES BY EXPOSURE TO LIGHT, MOISTURE AND HEAT IN A XENON ARC TYPE APPARATUS
ASTM D4491	N/A	STANDARD TEST METHODS FOR WATER PERMEABILITY OF GEOTEXTILES BY PERMITIVITY
CAN/ULC-S109-03	2003	FLAME TEST OF FLAME RESISTANT FABRIC AND FILMS
FED-STD-595B	N/A	FEDERAL STANDARD: COLORS USED IN GOVERNMENT PROCUREMENT
MIL-DTL-32488	2014-01-15	DETAIL SPECIFICATION – EXPEDITIONARY BARRIER SYSTEM.
R.S.C., 1985, C. H-3	1985	HAZARDOUS PRODUCTS ACT
SOR/99-7	1998	OZONE-DEPLETING SUBSTANCES REGULATIONS, 1998

2.2 Order of Precedence

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

3.0 PROJECT MANAGEMENT

3.1 Project Management Program

- 3.1.1 The Contractor must designate a Project Manager with the responsibilities to coordinate, execute, and manage the Contractor's project management activities for the Contract. The Contractor's Project Manager must have the total responsibility for all works required under the Contract.
- 3.1.2 The Contractor's Project Manager must be the primary point of contact between the Contractor and the DND Technical Authority and the PSPC Contracting Authority for all issues related to the Contract.

3.2 Project Meetings

3.2.1 Meeting Organization and Coordination

- 3.2.1.1 The Contractor's Project Manager must be present at the Kick-off Meeting, and at other meetings when requested by Canada. If the Project Manager does not have final approval authority for decision making and changes, then the person that has that final approval authority must also be present.

3.2.2 Kick-off Meeting

- 3.2.2.1 The Contractor must hold and chair a Kick-off Meeting (at the Contractor's facility) no later than twenty-one (21) calendar days after contract award to review and secure a common understanding of the requirements expressed in the following:
 - 3.2.2.1.1 The requirements of the Contract;
 - 3.2.2.1.2 The requirements of the SOW;
 - 3.2.2.1.3 General overview of the project, risks, schedule and communication channels to follow, and
 - 3.2.2.1.4 Other contractual and programmatic issues associated with the project as agreed between the TA, CA and the Contractor.
- 3.2.2.2 During the Kick-off Meeting, the Contractor must provide a **Top Level Assembly Drawing(s)** (TLAD) IAW CDRL EBS-ILS-201 at Appendix A2.5 (page 46) and its associated DID EBS-ILS-201 at Appendix A3.5 (page 55) to this ANNEX A.
- 3.2.2.3 Refer to Meeting Documentation requirements found at ANNEX A para. 3.2.4.

3.2.3 Other meetings

- 3.2.3.1 The Contractor and the TA may schedule informal reviews, such as teleconferences, video conferences, briefings and technical interchange meetings, to help achieve the requirements of the Contract.

3.2.4 Meeting Documentation

- 3.2.4.1 The Contractor must prepare and deliver a meeting agenda for all formal meetings and conferences, and prepare and deliver the meeting minutes afterwards.
 - 3.2.4.1.1 The Contractor must provide the **Meeting Agenda(s)** IAW CDRL EBS-PM-001 at Appendix A2.3 (page 44) to ANNEX A and its associated DID EBS-PM-001 at Appendix A3.3 (page 53) to ANNEX A.
 - 3.2.4.1.2 The Contractor must record, prepare, and provide the **Meeting Minutes** of each meeting IAW CDRL EBS-PM-002 at Appendix A2.4 (page 45) to

ANNEX A and its associated DID EBS-PM-002 at Appendix A3.4 (page 54) to ANNEX A.

- 3.2.4.2 No change in the interpretation of the SOW, Performance Specification, cost, and schedule, as defined in the contract, may be authorized by the minutes of a meeting. Such action will require formal contract amendment by the CA.

4.0 INTEGRATED LOGISTICS SUPPORT (ILS)

4.1 Instruments, Decals, Data Plates and Warnings

- 4.1.1 The Contractor must deliver all instruments, decals and data plates marked in metric units.
- 4.1.2 Where international symbols are not possible, the Contractor must provide bilingual markings in English and Canadian French, as per paragraph 4.2.3.
- 4.1.3 The Contractor must provide warning and precautionary data plates in both official languages of Canada (English and Canadian French) where necessary to protect personnel and equipment, as per paragraph 4.2.3.

4.2 Technical Publication Package

- 4.2.1 The Contractor must prepare and deliver the following Technical Publications:
- 4.2.1.1 Operator Quick Reference Card
- 4.2.1.1.1 The Contractor must provide an **Operator Quick Reference Card** IAW CDRL EBS-ILS-202 at Appendix A2.6 (page 47) and its associated DID EBS-ILS-202 at Appendix A3.6 (page 56) to ANNEX A, for the Expeditionary Barrier System (EBS);
- 4.2.2 Supplementary Information
- 4.2.2.1 The Contractor must provide supplementary information, in the portions of text that require it, with one or more of the following notices, in the order listed:
- 4.2.2.1.1 **Danger.** The danger advisory will be used to draw attention to an extreme, violent and continuous hazard to life;
- 4.2.2.1.2 **Warning.** The warning advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, which if not strictly observed, could result in injury to or death of personnel;
- 4.2.2.1.3 **Caution.** The caution advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, which if not strictly observed, could result in maintenance, damage to or destruction of equipment, loss of mission effectiveness or long-term health hazards to personnel;
- 4.2.2.1.4 **Note.** The note will be used to point out a procedure, event or practice that it is desirable to highlight; and,
- 4.2.2.1.5 **Example.** The example will be used when required to clarify the preceding text.
- 4.2.3 Official Language Requirements
- 4.2.3.1 The Contractor must deliver all Technical Publications in English and Canadian French.

- 4.2.3.2 The Contractor must have all Technical Publications translated by certified translators, such as members of an authorized provincial association of translators, to ensure the quality of translated text.
- 4.2.3.3 The Contractor must ensure all translations are consistent with approved DND terminology. Approved terminology sources, in order of priority, are as follows:
 - 4.2.3.3.1 Canadian Oxford Dictionary Second Edition (for English);
 - 4.2.3.3.2 Le Petit Robert Edition 2017 (for French); and
 - 4.2.3.3.3 Termium, PSPC Translation Bureau Linguistic Data Bank (<http://www.termiumplus.gc.ca/>);
- 4.2.3.4 The Contractor must review and accept responsibility for the validity of all (both their own and all sub-Contractors) information found in the Technical Publications.

4.3 Provisioning Documentation

- 4.3.1 The Provisioning Documentation (PD) lists and describes in detail the parts that make up the EBS as well as all specialized and specific items required to support the use and maintenance of the EBS. The PD allows the EBS's Integrated Logistics Support Manager (ILSM) to plan and implement a sparing and support strategy.
- 4.3.2 Included in the PD are all the procurable parts — either from the Contractor or a third-party — of the EBS to the Lowest Replaceable Unit (LRU). Also considered procurable parts are the consumables required to operate and maintain the EBS (chemicals, specific lubricants, etc.) and specialized equipment (special tools, training aids, transport containers, etc.) specific to the EBS.
- 4.3.3 The Contractor must prepare and deliver the following Provisioning Documentation:
 - 4.3.3.1 Provisioning Parts Breakdown
 - 4.3.3.1.1 The Contractor must provide a **Provisioning Parts Breakdown** IAW CDRL EBS-ILS-203 at Appendix A2.7 (page 48) and its associated DID EBS-ILS-203 at Appendix A3.7 (page 58) to this ANNEX A.
 - 4.3.3.2 Supplementary Provisioning Technical Documentation
 - 4.3.3.2.1 The Contractor must provide **Supplementary Provisioning Technical Documentation** IAW CDRL EBS-ILS-204 at Appendix 3 (page 51) to this ANNEX A.

4.4 Identification Labels for Storage & Shipment and Packaging Codes

- 4.4.1 The Contractor must supply all parts and equipment, packaged and packed as per D-LM-008-001/SF-001 following:
 - 4.4.1.1 Level C Minimum Military Package;
 - 4.4.1.2 Level C Minimum Military Pack;
- 4.4.2 The Contractor must label all packaging, produced under 4.4.1 above, as per D-LM-008-002/SF-001, using D-LM-008-011/SF-001 to prepare the required codes for packaging and preservation.
- 4.4.3 The Contractor must provide **Packaging, Labels and Codes** IAW CDRL EBS-ILS-205 at Appendix A2.9 (page 50) to Annex A, and its associated DID EBS-ILS-205 at Appendix A3.9 (page 63) to this ANNEX A.

4.5 Data Deliverable Format

4.5.1 Unless otherwise specified as a specific requirement, the Contractor must deliver all of the soft copies of data deliverables, in formats compatible with the office software currently in use by the DND as listed:

- 4.5.1.1 Microsoft (MS) Windows 7 Enterprise Operating System (OS), Service Pack 1;
- 4.5.1.2 MS Internet Explorer (IE) 9.0 with 256 Bit Encryption;
- 4.5.1.3 MS Office Professional Plus 2013 (Word, Excel, Access, PowerPoint and Outlook);
- 4.5.1.4 Adobe Acrobat X; and
- 4.5.1.5 WinZip 8.1 SR-1;

5.0 ENVIRONMENTAL HEALTH AND SAFETY

5.1 General

- 5.1.1 Environmental Health and Safety (EHS) consideration must be incorporated and documented into the decision making process for the Work performed under this Contract. EHS documentation must be maintained within the project file throughout the life of this Contract. The Contractor must provide for and allow DND inspection and monitoring of EHS documentation throughout the life of the contract.
- 5.1.2 Polychlorinated Biphenyls (PCBs), halocarbons (as identified within the SOR/99-7 - Ozone-Depleting Substances Regulations, 1998), and asbestos must not be incorporated into the design, operation and maintenance of the equipment, and products used in equipment support activities.
- 5.1.3 The Contractor must identify and report all sources of mercury contained and used within the design, operation and maintenance of the equipment, and products used in equipment support activities.
- 5.1.4 The Department is committed to the Federal programs to reduce and eliminate emissions from toxic substances. Contractors must identify and submit justifications for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET, <http://www.ec.gc.ca/nopp/aret/en/list.cfm>), National Pollutant Release Inventory (NPRI, http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm) and List of Challenge Substances (http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html), and also for products containing heavy metals (heavy metals are those identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA)) to the technical authority for approval.
- 5.1.5 Canada Labour Code, Part II dictates that the least hazardous materials should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
- 5.1.6 The Contractor must incorporate EHS warnings and instructions in direct relation of the EHS risks presented in the contents into documentation.

5.2 Environmental Management System

- 5.2.1 The Contractor must have a management system in place to control environmental, health and safety impacts resulting from their activities, products and services.

- 5.2.2 The Contractor must have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention.
- 5.2.3 The Contractor must also make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.

5.3 EHS Packaging Labels and SDS

- 5.3.1 The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, C. H-3 and regulation(s) there under, in accordance with the said Act and regulation(s).
- 5.3.1.1 The Contractor must ship goods accompanied by the required Safety Data Sheet(s) (SDS), completed in either English or Canadian French.
- 5.3.1.2 The Contractor must clearly identify the contents of the hazardous material with labels, and the SDS must explain what those hazards are.

6.0 TECHNICAL REQUIREMENTS

6.1 Overview

- 6.1.1 The Contractor must comply with all specified requirements for the EBS, stated in:
- 6.1.1.1 A1.0 APPENDIX: EBS TECHNICAL SPECIFICATION

6.2 Deliverable Table

Item	Item Description	Estimated Qty Montreal Depot per year	Estimated Qty Edmonton Depot per year
1A	EBS-1 [Green] (para. A1.1.1.2.1.1) <u>Consisting of:</u> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	10	10
1B	EBS-1 [Tan] (para. A1.1.1.2.1.1) <u>Consisting of:</u> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	200	200
2A	EBS-2 [Green] (para. A1.1.1.2.1.2) <u>Consisting of:</u>	350	350

Item	Item Description	Estimated Qty Montreal Depot per year	Estimated Qty Edmonton Depot per year
	<ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 		
2B	<p>EBS-2 [Tan] (para. A1.1.1.2.1.2) <u>Consisting of:</u></p> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	350	350
3A	<p>EBS-3 [Green] (para. A1.1.1.2.1.3) <u>Consisting of:</u></p> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	10	10
3B	<p>EBS-3 [Tan] (para. A1.1.1.2.1.3) <u>Consisting of:</u></p> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	150	150
4A	<p>EBS-4 [Green] (para. A1.1.1.2.1.4) <u>Consisting of:</u></p> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6) 	10	10
4B	<p>EBS-4 [Tan] (para. A1.1.1.2.1.4) <u>Consisting of:</u></p> <ul style="list-style-type: none"> a. Welded Wire Mesh Panels forming EBS cells (para. 	25	25

Item	Item Description	Estimated Qty Montreal Depot per year	Estimated Qty Edmonton Depot per year
	A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)		
5A	EBS-5 [Green] (para. A1.1.1.2.1.5) <u>Consisting of:</u> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)	10	10
5B	EBS-5 [Tan] (para. A1.1.1.2.1.5) <u>Consisting of:</u> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)	25	25
6	EBS-6 [Tan] (para. A1.1.1.2.1.6) <u>Consisting of:</u> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)	50	50
7	EBS-7 [Tan] (para. A1.1.1.2.1.7) <u>Consisting of:</u> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1) b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)	50	50
8	EBS-8 [Tan] (para. A1.1.1.2.1.8) <u>Consisting of:</u> a. Welded Wire Mesh Panels forming EBS cells (para. A1.2.1)	50	50

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Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

Item	Item Description	Estimated Qty Montreal Depot per year	Estimated Qty Edmonton Depot per year
	b. Spiral Wire Hinges (para. A1.2.2) c. Connecting Pins (para. A1.2.3) d. Hog Rings (para. A1.2.4) e. Geotextile Fabric and staples (para. A1.2.5) f. Tools (para. A1.2.6)		
9A	Kick-off Meeting (para. 3.2.2)	1	
9B	Meeting Agenda (para. 3.2.4.1.1)	LOT	
9C	Meeting Minutes (para. 3.2.4.1.2)	LOT	
10	Top Level Assembly Drawing(s) (para. 3.2.2.2)	LOT	
11	Operator Quick Reference Card (para. 4.2.1.1.1)	LOT	LOT
12A	Provisioning Parts Breakdown (para. 4.3.3.1.1)	LOT	
12B	Option to acquire Spare Parts after approval from DND		TBD
13	Supplementary Provisioning Technical Documentation (para. 4.3.3.2.1)	LOT	
14	Packaging, Labels and Codes (para. 4.4.3)	LOT	

Note: 'LOT' equates to the quantity needed to fulfill the requirements of the CDRL and revisions, until accepted by DND.

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A1.0 APPENDIX: TECHNICAL SPECIFICATION

A1.1 System Requirements

A1.1.1 General

A1.1.1.1 The must be a collapsible cellular system that is made from connected Welded Wire Mesh Panels and a Geotextile Fabric liner.

A1.1.1.2 The must consist of the following components, and is further described in detail under the **System Component Requirements** section:

A1.1.1.2.1 Types (combinations of Welded Wire Mesh Panels forming cells)

A1.1.1.2.1.1 **EBS – 1:** 1 x set of 5 Welded Wire Mesh Panel cells and 1 x set of 4 Welded Wire Mesh Panel cells.(See MIL-DTL-32488 Fig.6)

A1.1.1.2.1.2 **EBS – 2:** 1 x set of 2 Welded Wire Mesh Panel cells (See MIL-DTL-32488 Fig.7)

A1.1.1.2.1.3 **EBS – 3:** 2 x sets of 5 Welded Wire Mesh Panel cells (See MIL-DTL-32488 Fig.8)

A1.1.1.2.1.4 **EBS – 4:** 1 x set of 5 Welded Wire Mesh Panel cells and 2 x sets of 4 Welded Wire Mesh Panel cells (See MIL-DTL-32488 Fig.12)

A1.1.1.2.1.5 **EBS – 5:** 4 x sets of 5 Welded Wire Mesh Panel cells (See MIL-DTL-32488 Fig.15)

A1.1.1.2.1.6 **EBS – 6:** 1 x set of 3 Welded Wire Mesh Panel cells

A1.1.1.2.1.7 **EBS – 7:** 1 x set of 6 Welded Wire Mesh Panel cells

A1.1.1.2.1.8 **EBS – 8:** 1 x set of 9 Welded Wire Mesh Panel cells

A1.1.1.2.2 Spiral Wire Hinges

A1.1.1.2.3 Connecting Pins

A1.1.1.2.4 Hog Rings

A1.1.1.2.5 Geotextile Fabric and Staples

A1.1.1.2.6 Tools

A1.1.2 Protective Finish of Steel Components

A1.1.2.1 As per MIL-DTL-32488 Para 3.3, all steel components (Welded Wire Mesh Panels, Spiral Wire Hinges, Connecting Pins, and Hog Rings) of the must have a zinc-5% aluminum alloy coating satisfying the requirements of ASTM B750 and the deposition requirements of ASTM A856.

A1.1.2.1.1 An alternative coating composition may be used, however it must provide corrosion protection that is equivalent to or greater than an ASTM B750 GALFAN coating applied at the minimum specified coating weight given in this specification.

A1.1.2.2 The protective finish must be on the wire and welds of the finished components.

A1.1.3 Transportability

- A1.1.3.1 For ease of shipping, each type must be palletized and transportable in a standard 20 foot International Organization Standard (ISO) container.
- A1.1.3.2 The EBS must be collapsible and stored flat as to minimize shipping volume to be easily transportable by air, land or sea.

A1.2 System Component Requirements

A1.2.1 Welded Wire Mesh Panels

- A1.2.1.1 See MIL-DTL-32488 Fig 1 for additional imagery.
- A1.2.1.2 Welded Wire Mesh Panels must be made from AISI 1010 carbon steel wire and meet the requirements of MIL-DTL-32488 Table I Wire Properties.
- A1.2.1.3 The wire mesh spacing for all Welded Wire Mesh Panels must be 3 in \pm 0.125 in (76 mm \pm 3mm).
- A1.2.1.4 To maintain 'squareness', the two measured diagonals of the Welded Wire Mesh Panels must not differ by more than 0.125 in (3mm) per foot (0.305m).
- A1.2.1.5 Welded Wire Mesh Panel must not deviate from plane by more than 1 in (25 mm) for every 3 ft (0.914m) of length.
- A1.2.1.6 Welded Wire Mesh Panels smaller than 3 ft (0.914m) must not deviate more than 0.5 in (13mm) from plane.

A1.2.2 Spiral Wire Hinges

- A1.2.2.1 See MIL-DTL-32488 Fig 1 and 2 for additional imagery.
- A1.2.2.2 The Welded Wire Mesh Panels must be connected with Spiral Wire Hinges at the corners and mid-face of each cell for each type.
- A1.2.2.3 Spiral Wire Hinges must be made from AISI 1010 carbon steel wire and meet the requirements of MIL-DTL-32488 Table I Wire Properties for nominal 0.157 in (4 mm) diameter wire.
- A1.2.2.4 Spiral Wire Hinges must be formed with an inside diameter of 0.875 in \pm 0.039 in (22 mm \pm 1 mm) and pitch of 1 in \pm 0.039 in (25 mm \pm 1 mm).
 - A1.2.2.4.1 The Spiral Wire Hinges must have the exact pitch within the allowable range, with the exact wire mesh spacing, for easy assembly of the cells and easy collapse.
- A1.2.2.5 The ends of the Spiral Wire Hinges must be crimped in a way so that once assembled they cannot back off of the Welded Wire Mesh Panels.
 - A1.2.2.5.1 See MIL-DTL-32488 Fig 2 for an example of an end crimp.
- A1.2.2.6 Spiral wire hinges must be long enough to extend the full height of the Welded Wire Mesh Panels for each type.

A1.2.3 Connecting Pins

- A1.2.3.1 Connecting Pins must be used at each corner of the cells to join adjacent cells together.
- A1.2.3.2 Connecting Pins must be made from AISI 1010 carbon steel wire and meet the requirements of MIL-DTL-32488 Table I Wire Properties for nominal 0.157 in (4 mm) diameter wire.
- A1.2.3.3 Connecting Pins must be hooked on one end for grabbing and removal, and the hook must be 1.5 in (38 mm) long and have a radius of 0.687 in (17 mm).

- A1.2.3.4 Where an EBS type has two (2) or more separate sets, specifically EBS – 1, EBS – 3, EBS – 4, and EBS – 5, Connecting Pins must be provided to join those sets together.
- A1.2.3.5 An additional two (2) Connecting Pins must be provided with each EBS type for joining adjacent EBS types together.
- A1.2.3.6 Connecting Pins must be long enough to extend the full height of the Welded Wire Mesh Panels for each EBS type.

A1.2.4 **Hog Rings**

- A1.2.4.1 See MIL-DTL-32488 Fig 3 for additional imagery.
- A1.2.4.2 Hog Rings must be made from AISI 1010 carbon steel wire and meet the requirements of MIL-DTL-32488 Table I Wire Properties for nominal 0.157 in (4 mm) diameter wire
- A1.2.4.3 Hog Rings must conform to the design, dimensions, and tolerances shown in MIL-DTL-32488 Fig 3.
- A1.2.4.4 For each EBS type, a quantity of Hog Rings must be provided to attach Hog Rings at a spacing of not more than 9 in (230 mm) along stacked EBS cells.

A1.2.5 **Geotextile Fabric and Staples**

- A1.2.5.1 See MIL-DTL-32488 Fig 4 and 5 for additional imagery.
- A1.2.5.2 The inside of the cells must be lined on all sides with a non-woven polypropylene Geotextile Fabric that meets MIL-DTL-32488 Table II.
- A1.2.5.3 The Geotextile Fabric must be overlapped over the top of each cell by 3.5 in \pm 0.25 in (90 mm \pm 6 mm) and must extend beyond the bottom of each cell by 3.5 in \pm .25 in (90 mm \pm 6 mm).
 - A1.2.5.3.1 The top overlaps provide a lap for stapling the fabric inside the cell and the bottom extension provides a skirt that can be placed inside lower cells when the EBS cells are stacked.
- A1.2.5.4 The two (2) free ends of the Geotextile Fabric inside of each cell must be overlapped by no less than 3.5 in (90 mm) so that the inside of the cell is completely lined.
 - A1.2.5.4.1 The overlap must be placed at the middle of a cell wall that adjoins to an adjacent cell;
 - A1.2.5.4.2 Overlaps must not occur on an exterior face of the EBS cells.
- A1.2.5.5 The Geotextile Fabric Flammability performance must meet the burn propagation test as per MIL-DTL-32488 Para 4.5.5.
- A1.2.5.6 The Geotextile Fabric must be secured inside each cell by stapling at the top and bottom using the staple pattern shown in MIL-DTL-32488 Fig 4.
 - A1.2.5.6.1 Staples must be galvanized finished flat steel wire that is minimum 0.098 in (2.5 mm) wide by 0.02 in (0.5 mm) thick.
 - A1.2.5.6.2 The minimum width of the staple must be 0.5 in (13 mm).
 - A1.2.5.6.3 Length of the staple must be sufficient to secure the fabric when stapled in the required pattern as shown in MIL-DTL-32488 Fig 5.

A1.2.6 **Tools**

A1.2.6.1 Tools must be supplied with EBS if required to build or interlock the EBS units.

A1.3 Physical Requirements

A1.3.1 EBS Sizes

A1.3.1.1 The following Table lists the dimensions requirement of each EBS type.

TABLE I – EBS Dimension Chart

EBS dimensions										
Type	Height*		Width		Length**		Wire Diameter***		#Cell	#Sets
1	1.37 m	4ft 6 in	1.06 m	3ft 6in	10 m	32ft 9in	0.157 in	4mm	9	2
2	0.61 m	2ft	0.61 m	2ft	1.22 m	4ft	0.157 in	4mm	2	1
3	1 m	3ft 3 in	1.00 m	3ft 3in	10 m	32ft 9in	0.157 in	4mm	10	2
4	2.21 m	7ft 3in	2.13 m	7ft	27.74 m	91ft	0.197in	5mm	13	3
5	2.21 m	7ft 3in	1.52 m	5ft	30.5 m	100ft	0.197in	5mm	20	4
6	1.37 m	4ft 6in	1.06 m	3ft 6in	3.33 m	10ft 11in	0.157 in	4mm	3	1
7	0.61 m	2ft	0.61 m	2ft	3.66 m	12ft	0.157 in	4mm	6	1
8	0.69 m	2ft 3in	1.06 m	3ft 6in	10 m	32ft 9in	0.157 in	4mm	9	1

*Tolerance \pm 0.25in (6.35mm)

** Tolerance \pm 0.5in (12.7mm)

***Wire Diameter are nominal. See Table II in MIL-DTL-32488 for specific diameter requirement

A1.3.2 Weight

- A1.3.2.1 The EBS - 1 complete (including Welded Wire Mesh Panels, Spiral Wire Hinges, Connecting Pins, Hog Rings, and Geotextile Fabric) must not exceed 156 kg (343 lbs) in a flat pack configuration.
- A1.3.2.2 The EBS - 2 complete must not exceed 10.5 kg (23 lbs) in a flat pack configuration.
- A1.3.2.3 The EBS - 3 complete must not exceed 112 kg (246 lbs) in a flat pack configuration.
- A1.3.2.4 The EBS - 4 complete must not exceed 967 kg (2129 lbs) in a flat pack configuration.
- A1.3.2.5 The EBS - 5 complete must not exceed 1034 kg (2275 lbs) in a flat pack configuration.
- A1.3.2.6 The EBS - 6 complete must not exceed 52.3 kg (117 lbs) in a flat pack configuration.

A1.3.2.7 The EBS - 7 complete must not exceed 29.4 kg (65 lbs) in a flat pack configuration.

A1.3.2.8 The EBS - 8 complete must not exceed 78.5 kg (176 lbs) in a flat pack configuration.

A1.3.3 Colour

A1.3.3.1 The EBS must have the predominant exterior colour (so that it contributes to and does not compromise a soldier's camouflage) of:

A1.3.3.1.1 EBS- 1 to 5; dark green in color, IAW FED-STD-595B, FS14062 (RGB Hex code 3D6E3F); and

A1.3.3.1.2 EBS- 1 to 8; Tan in color, IAW FED-STD-595B, FS20400 (RGB Hex code B9845C).

A1.4 Performance Requirements

A1.4.1 General

A1.4.1.1 An EBS set of cells must be able to be filled with the full range of fill materials using heavy equipment commonly available to the combat engineers in a battle group. This would include a wheeled loader with a bucket of 2.25 cubic yards.

A1.4.1.2 The EBS must be free standing and self-supporting when empty.

A1.4.2 Small Scale structural Load

A1.4.2.1 The EBS must be able to withstand a minimum peak load capacity of 53,000 lb (235kN) as per MIL-DTL-32488 Para 3.4.

A1.4.3 Geotextile Fabric Properties

A1.4.3.1 The Apparent Opening Size (AOS) of the Geotextile Fabric must be between 0.011 mm to 0.13 mm IAW MIL-DTL-32488.

A1.4.3.2 The Geotextile Fabric Grab tensile strength (MD and TD) and elongation (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.

A1.4.3.3 The Geotextile Fabric wide width tensile strength (MD and TD) and wide width elongation (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.

A1.4.3.4 The Geotextile Fabric strength must be of 80% of the original sample strength in both directions after 1000 hours of UV exposure IAW ASTM D4355.

A1.4.3.5 The Geotextile Fabric permittivity must be of 1.1 to 1.6 s^{-1} IAW ASTM 4491 water permeability test.

A1.4.3.6 The Geotextile Fabric trapezoidal tear strength (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.

A1.4.3.7 The Geotextile Fabric Flammability performance must meet the burn propagation test as per MIL-DTL-32488 Para 4.5.5

A1.4.3.8 The Geotextile Fabric CBR puncture strength properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.

A1.4.3.9 The Geotextile Fabric cone drop test properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.

- A1.4.3.10 The Geotextile Fabric must meet the requirement for Min strength retention for chemical exposure, diesel fuel, deicing fluid, sulfuric acid, calcium hydroxide, high temperature exposure, low temperature exposure, and blowing sand abrasion as per Table II. Fabric properties in MIL-DTL-32488.

A1.4.4 Wire Properties

- A1.4.4.1 The EBS Wire Mesh must meet or exceed tensile yield strength of 650 MPa with the 4 mm (nominal) diameter and 590 MPa with the 5 mm (nominal) diameter IAW ASTM E8.
- A1.4.4.2 The EBS weld shear strength must meet or exceed 480 MPa with the 4 mm (nominal) diameter and 455 MPa with the 5 mm (nominal) diameter IAW ASTM A185.
- A1.4.4.3 The EBS ultimate strength must meet or exceed 685 MPa with the 4 mm (nominal) diameter and 650 MPa with the 5 mm (nominal) diameter IAW ASTM E8-13a
- A1.4.4.4 The EBS Elongation at rupture must meet or exceed 5% with the 4 mm (nominal) diameter and 5% with the 5 mm (nominal) diameter IAW ASTM A185.

A1.5 Environmental/Climatic Requirements

A1.5.1 Climatic Conditions

- A1.5.1.1 The must be capable of operating and be stored outdoors in temperatures from -40°C to +49°C.
- A1.5.1.2 The EBS must operate in relative humidity from 5% to 100%

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A2.0 APPENDIX: CONTRACT DATA REQUIREMENTS LIST

A2.1 CDRL Item List

CDRL #	Title	DID #
EBS-PM-001	Meeting Agenda	EBS-PM-001
EBS-PM-002	Meeting Minutes	EBS-PM-002
EBS-ILS-201	Top Level Assembly Drawing	EBS-ILS-201
EBS-ILS-202	Operator Quick Reference Card	EBS-ILS-202
EBS-ILS-203	Provisioning Parts Breakdown	EBS-ILS-203
EBS-ILS-204	Supplementary Provisioning Technical Documentation	EBS-ILS-204
EBS-ILS-205	Identification Labels for Storage & Shipment and Packaging Codes	EBS-ILS-205

A2.2 CDRL Table Definitions

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

BLOCK 1 – SYSTEM / ITEM

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

BLOCK 2 – ITEM NUMBER

The Item Number is a sequential three-digit number to uniquely identify the individual data item (CDRL number). Note that the 001-099 series is reserved to Project Management (PM) CDRLs, the 101-199 series is reserved to Systems Engineering (SE) CDRLs and the 201-299 series is reserved to Integrated Logistics Support (ILS) CDRLs.

BLOCK 3 - TITLE OR DESCRIPTION OF DATA

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

BLOCK 4 - AUTHORITY (DATA ITEM NUMBER)

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

BLOCK 5 - CONTRACT REFERENCE

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

BLOCK 6 - FREQUENCY

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

ANPLY	Annually
ASGEN	As generated
ASREQ	As required
BI-MO	Every 2 months
BI-WK	Every 2 weeks
DAILY	Daily
MNTHY	Monthly
ONE/R	One time with revisions
OTIME	One time
QRTLY	Quarterly
R/ASR	Revisions as required
SEMIA	Semi-annually
WKLY	Weekly

BLOCK 7 – REQUIRING OFFICE

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

BLOCK 8 – SUBMISSION SCHEDULE

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

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

Solicitation No. - N° de l'invitation
W8486-195833/A
Client Ref. No. - N° de réf. du client
W8486-195833

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

BLOCK 9 - DISTRIBUTION AND ADDRESSEES

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

A2.3 CDRL – Meeting Agenda

CONTRACT DATA REQUIREMENTS LIST								
1. SYSTEM / ITEM Expeditionary Barrier System								
2. ITEM NUMBER CDRL EBS-PM-001	3. TITLE OR DESCRIPTION OF DATA Meeting Agenda		4. AUTHORITY (Data Item Number) DID EBS-PM-001					
5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.1 (pg. 26) DID: App. A3.3 (pg. 53)	6. FREQUENCY ASREQ		7. REQUIRING OFFICE DND PMO					
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Meeting Agenda for review no later than seven (7) calendar days prior to each meeting. Response Time: Comments on the draft Meeting Agenda, and additions and deletions of discussion items, will be provided by Canada no later than five (5) calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission: The Contractor must provide a revised Meeting Agenda, addressing Canada's comments, at the meeting.			9. DISTRIBUTION and ADDRESSEES					
			A. ADDRESSEE		B. COPIES			
					DRAFT		FINAL	
					Hard Copy	Soft Copy	Hard Copy	Soft Copy
			PSPC CA		0	1	0	1
			DND TA		0	1	0	1
			DND PA		0	1	0	1

A2.4 CDRL – Meeting Minutes

CONTRACT DATA REQUIREMENTS LIST												
1. SYSTEM / ITEM Expeditionary Barrier System												
2. ITEM NUMBER CDRL EBS-PM-002		3. TITLE OR DESCRIPTION OF DATA Meeting Minutes		4. AUTHORITY (Data Item Number) DID EBS-PM-002								
5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.2 (pg. 26) DID: App. A3.4 (pg.54)		6. FREQUENCY ASREQ		7. REQUIRING OFFICE DND PMO								
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide draft Meeting Minutes for review no later than seven (7) calendar days following each meeting. Response Time: Comments on the draft Meeting Minutes will be provided by Canada no later than seven (7) calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission(s): The Contractor must provide revised Meeting Minutes, addressing Canada's comments, for review and possible acceptance no later than seven (7) calendar days after receipt of Canada's comments. Response Time: Comments or acceptance of the revised Meeting Minutes will be provided by Canada no later than seven (7) calendar days after receipt of the <u>soft copy submission</u> .				9. DISTRIBUTION and ADDRESSEES								
				A. ADDRESSEE	B. COPIES							
					DRAFT		FINAL					
					Hard Copy	Soft Copy	Hard Copy	Soft Copy				
								PSPC CA	0	1	0	1
								DND TA	0	1	0	1
								DND PA	0	1	0	1

A2.5 CDRL – Top Level Assembly Drawing

CONTRACT DATA REQUIREMENTS LIST						
1. SYSTEM / ITEM Expeditionary Barrier System						
2. ITEM NUMBER CDRL EBS-ILS-201	3. TITLE OR DESCRIPTION OF DATA Top Level Assembly Drawing	4. AUTHORITY (Data Item Number) DID EBS-ILS-201				
5. CONTRACT REFERENCE SOW: Para. 3.2.2.2 (pg.26) DID: App. A3.5 (pg.55)	6. FREQUENCY ONE/R	7. REQUIRING OFFICE DND ILS Manager				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Top Level Assembly Drawing (TLAD) for review by Canada during the Kick-Off Meeting. Response Time: Comments on the draft TLAD will be provided by Canada no later than seven (7) calendar days after receipt of the <u>hard and soft copy submission</u> . Subsequent Submission(s): The Contractor must provide a revised TLAD, addressing Canada's comments, for review and possible acceptance no later than seven (7) calendar days after the receipt of Canada's comments. Response Time: Comments or acceptance of the revised TLAD will be provided by Canada no later than seven (7) calendar days after receipt of the <u>hard and soft copy submission</u> .		9. DISTRIBUTION and ADDRESSEES				
		A. ADDRESSEE	B. COPIES			
			DRAFT		FINAL	
			Hard Copy	Soft Copy	Hard Copy	Soft Copy
		DND ILSM	1	1	1	1

A2.7 CDRL – Provisioning Parts Breakdown

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Expeditionary Barrier System							
2. ITEM NUMBER CDRL EBS-ILS-203	3. TITLE OR DESCRIPTION OF DATA Provisioning Parts Breakdown		4. AUTHORITY (Data Item Number) DID EBS-ILS-203				
5. CONTRACT REFERENCE SOW: Para. 4.3.3.1.1 (pg.28) DID: App. A3.7 (pg.58)	6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND ILS Manager				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Provisioning Parts Breakdown for review by Canada no later than 28 calendar days after the Kick off Meeting date. Response Time: Comments on the draft Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission(s): The Contractor must provide a revised Provisioning Parts Breakdown, addressing Canada's comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada's comments. Response Time: Comments or acceptance of the revised Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> .			9. DISTRIBUTION and ADDRESSEES				
			A. ADDRESSEE	B. COPIES			
				DRAFT		FINAL	
				Hard Copy	Soft Copy	Hard Copy	Soft Copy
			DND ILSM	1	1	1	1

A2.8 CDRL – Supplementary Provisioning Technical Documentation

CONTRACT DATA REQUIREMENTS LIST								
1. SYSTEM / ITEM Expeditionary Barrier System								
2. ITEM NUMBER CDRL EBS-ILS-204		3. TITLE OR DESCRIPTION OF DATA Supplementary Provisioning Technical Documentation		4. AUTHORITY (Data Item Number) DID EBS-ILS-204				
5. CONTRACT REFERENCE SOW: Para. 4.3.3.2.1 (pg.28) DID: App. A3.8 (pg. 61)		6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND ILS Manager				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Supplementary Provisioning Technical Documentation for review by Canada at the same time as the draft Provisioning Parts Breakdown submission. Response Time: Comments on the draft Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission(s) The Contractor must provide a revised Supplementary Provisioning Technical Documentation, addressing Canada's comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada's comments. Response Time: Comments or acceptance of the revised Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> .				9. DISTRIBUTION and ADDRESSEES				
				A. ADDRESSEE	B. COPIES			
					DRAFT		FINAL	
					Hard Copy	Soft Copy	Hard Copy	Soft Copy
				DND ILSM	0	1	1	1

A2.9 CDRL – Identification Labels for Storage & Shipment and Packaging Codes

CONTRACT DATA REQUIREMENTS LIST									
1. SYSTEM / ITEM Expeditionary Barrier System									
2. ITEM NUMBER CDRL EBS-ILS-205		3. TITLE OR DESCRIPTION OF DATA Identification Labels for Storage & Shipment and Packaging Codes		4. AUTHORITY (Data Item Number) DID EBS-ILS-205					
5. CONTRACT REFERENCE SOW: Para. 4.4.3 (pg. 28) DID: App. A3.9 (pg.63)		6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND ILS Manager					
8. SUBMISSION SCHEDULE First Submission (Labels): The Contractor must provide draft Identification Labels for Storage & Shipment designs for review by Canada no later than 42 calendar days after the Kick-off Meeting. Response Time: Comments on the draft Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission(s): The Contractor must provide revised Identification Labels for Storage & Shipment designs, addressing Canada's comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada's comments. Response Time: Comments or acceptance of the revised Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . First Submission (Codes): The Contractor must provide draft Packaging Codes forms for review by Canada no later than 35 calendar days after Canada provides the item's NATO Stock Number. Response Time: Comments on the draft Packaging Codes forms will be provided by Canada no later than 21 calendar days after receipt of the <u>soft copy submission</u> . Subsequent Submission(s): The Contractor must provide revised Packaging Codes forms, addressing Canada's comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada's comments. Response Time: Comments or acceptance of the revised Packaging Codes forms will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> .				9. DISTRIBUTION and ADDRESSEES					
				A. ADDRESSEE		B. COPIES			
						DRAFT		FINAL	
						Hard Copy	Soft Copy	Hard Copy	Soft Copy
				DND ILSM		0	1	1	1

Solicitation No. - N° de l'invitation
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Client Ref. No. - N° de réf. du client
W8486-195833

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

A3.0 APPENDIX: DATA ITEM DESCRIPTION

A3.1 DID Item List

DID #	Title	CDRL #
EBS-PM-001	Meeting Agenda	EBS-PM-001
EBS-PM-002	Meeting Minutes	EBS-PM-002
EBS-ILS-201	Top Level Assembly Drawing	EBS-ILS-201
EBS-ILS-202	Operator Quick Reference Card	EBS-ILS-202
EBS-ILS-203	Provisioning Parts Breakdown	EBS-ILS-203
EBS-ILS-204	Supplementary Provisioning Technical Documentation	EBS-ILS-204
EBS-ILS-205	Identification Labels for Storage & Shipment and Packaging Codes	EBS-ILS-205

A3.2 DID Table Definitions

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

BLOCK 1 – TITLE

The title of the data item for the DID.

BLOCK 2 - IDENTIFICATION NUMBER

The Data Item Description (DID) number, consisting of a sequential three-digit number and prefixed with an abbreviation code, to uniquely identify the DID. Note that the 001-099 series is reserved to Project Management (PM) DIDs, the 101-199 series is reserved to Systems Engineering (SE) DIDs and the 201-299 series is reserved to Integrated Logistics Support (ILS) DIDs. The abbreviation codes used for the prefix are:

“PM” for Project Management
“SE” for Systems Engineering
“ILS” for Integrated Logistics Support

BLOCK 3 - DESCRIPTION

Provides a general description of the data content requirements.

BLOCK 4 – RELATED DOCUMENT(S)

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

BLOCK 5 - CONTRACT REFERENCE

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

BLOCK 6 - PREPARATION INSTRUCTIONS

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

A3.3 DID – Meeting Agenda

DATA ITEM DESCRIPTION	
1. TITLE Meeting Agenda	2. IDENTIFICATION NUMBER DID EBS-PM-001
3. DESCRIPTION The Meeting Agenda contains the venue information and identifies the discussion items to be covered at meetings.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.1 (pg.26) CDRL: App. A2.3 (pg. 44)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT 6.1.1. The Meeting Agenda must set forth the venue, identify all requirements and list the discussion items to be covered at the meeting. 6.1.2. Venue. The Meeting Agenda must address the venue as follows: 6.1.2.1. Meeting Identification Number; 6.1.2.2. Purpose; 6.1.2.3. Date, time and location; and 6.1.2.4. Attendees. 6.1.3. Discussion items. The Meeting Agenda must address the discussion items through the following sections: 6.1.3.1. Opening Remarks; 6.1.3.2. Agenda Review; 6.1.3.3. Review of Previous Minutes; 6.1.3.4. Opened Discussion Items; 6.1.3.5. New Discussion Items; 6.1.3.6. Review of Action Items; 6.1.3.7. Next Venue; and 6.1.3.8. Closing Remarks. 6.2. SOFT COPY FORMAT 6.2.1. The Meeting Agenda must be submitted as a PDF file type. 6.2.2. The Meeting Agenda PDF must be submitted via email (submission size not to exceed 7MB) as follows: 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.2.2.2. Subject Field: EBS-PM-001 – Meeting Agenda – [Rev #] – [Date of Issue]	

A3.4 DID – Meeting Minutes

DATA ITEM DESCRIPTION	
1. TITLE Meeting Minutes	2. IDENTIFICATION NUMBER DID EBS-PM-002
3. DESCRIPTION The Meeting Minutes contains the detailed records of proceedings, discussions, decisions and action items from meetings.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.2 (pg.26) CDRL: App. A2.4 (pg. 45)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT 6.1.1. The Meeting Minutes must contain the detailed records of proceedings, discussions, decisions and action items from the meeting and be presented through the following sections: 6.1.1.1. General – consisting of meeting identification number, purpose, date, time and location; 6.1.1.2. Attendees, consisting of the organization each person represents, and the identification of the Chairperson(s); 6.1.1.3. Opening Remarks; 6.1.1.4. Action Item Report - used to monitor issues, assign responsibility, direct action and track status, history, and progress, and must consisting of: 6.1.1.4.1. Item #; date initiated; required action; assigned actionee; target completion date; cross-reference to all related action items. 6.1.1.4.2. Action Item Report must be updated with each meeting and must consisting of: 6.1.1.4.2.1. Action Item current status and the actual date completed; 6.1.1.5. Next Venue; 6.1.1.6. Closing Remarks; 6.2. SOFT COPY FORMAT 6.2.1. The Meeting Minutes must be submitted as a PDF file type. 6.2.2. The Meeting Minutes PDF must be submitted via email (submission size not to exceed 7MB) as follows: 6.2.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.2.2.2. Subject Field: EBS-PM-002 – Meeting Minutes – [Rev #] – [Date of Issue]	

A3.5 DID – Top Level Assembly Drawing

DATA ITEM DESCRIPTION	
1. TITLE Top Level Assembly Drawing	2. IDENTIFICATION NUMBER DID EBS-ILS-201
3. DESCRIPTION The Top Level Assembly Drawing describes the assembled relationship of all the parts of the system.	
4. RELATED DOCUMENTS D-01-400-001/SG-000 <i>Standard - Engineering Drawing Practices</i> D-01-400-002/SF-000 <i>Specification for Levels of Engineering Drawings and Associated Lists</i>	5. CONTRACT REFERENCE SOW: Para. 3.2.2.2 (pg.26) CDRL: App. A2.5 (pg. 46)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT 6.1.1. The Top Level Assembly Drawing (TLAD) must contain all information necessary to identify all the components of the HRS-TOOL and define the relationship between all the components of the EBS in order for DND to initiate cataloging of all the parts of the system. 6.2. GENERAL FORMAT 6.2.1. The Top Level Assembly Drawing must be prepared IAW D-01-400-001/SG-000, Engineering Drawing Practices, para 7.4, and D-01-400-002/SF-000: Levels of Engineering Drawings and Associated Lists, para 3.3.2 (Level 2). 6.3. HARD COPY FORMAT 6.3.1. The Top Level Assembly Drawing must be printed on paper with these characteristics: 6.3.1.1. Standard US Ledger size (432 mm x 279 mm) 6.3.1.2. Weight of no less than 90 gsm; 6.3.1.3. Brightness of no less than 96 ISO brightness; 6.4. SOFT COPY FORMAT 6.4.1. The Top Level Assembly Drawing must be submitted as a PDF file type, and match the printed format and layout. 6.4.1.1. Viewing the PDF version: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape. 6.4.2. Soft Copy format submission size below 7MB – The Top Level Assembly Drawing PDF may be submitted via email as follows: 6.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.4.2.2. Subject Field: EBS-ILS-201 – Top Level Assembly Drawing – [Rev #] – [Date of Issue] 6.4.3. Soft Copy format submission size at or above 7MB - The Top Level Assembly Drawing PDF must be submitted on CD or DVD media and be labelled as follows: 6.4.3.1. Expeditionary Barrier System 6.4.3.2. Top Level Assembly Drawing; 6.4.3.3. EBS-ILS-201; 6.4.3.4. The Revision number, and 6.4.3.5. The date of issue.	

A3.6 DID – Operator Quick Reference Card

DATA ITEM DESCRIPTION	
1. TITLE Operator Quick Reference Card	2. IDENTIFICATION NUMBER DID EBS-ILS-202
3. DESCRIPTION Operator Quick Reference Card (OQRC) will allow the trained user to quickly unpack, assemble, and safely use the equipment.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE SOW: Para. 4.2.1.1.1 (pg.27) CDRL: App. A2.6 (pg. 47)
6. PREPARATION INSTRUCTIONS	
<p>6.1. CONTENT</p> <p>6.1.1. The OQRC must contain the necessary instructions to allow a trained user to quickly, safely and effectively operate the equipment.</p> <p>6.1.2. The OQRC must assume that the equipment's initial state is as off-loaded from the transport vehicle (see Technical Specification(s)).</p> <p>6.1.3. The OQRC instructions must be based on pictograms illustrating the sequence of steps required while using only minimal text to assist in the understanding of the document. Desired look and feel would be similar to commercial airline safety pamphlets describing the use of oxygen masks, and emergency exits.</p> <p>6.1.4. The OQRC must not introduce new information and procedures not also described in the Operator Manual, as the Operator Manual is the master document on how to use the equipment.</p> <p>6.1.5. The OQRC cautionary advisory's heading must be determined based on the criteria set out in ANNEX A SOW para. 4.2.2.1.</p> <p>6.1.6. The OQRC cautionary advisory must read as follows: "This Operator Quick Reference Card is intended solely for experienced users who have been trained on this equipment, and have read and understood its Operator Manual (CFTO# to be supplied by DND). When in doubt, read the Operator Manual before operating this equipment."</p> <p>6.1.7. The OQRC cautionary advisory must also have, immediately following this text, a brief description of the consequences of misuse of the equipment, linked to the same criteria listed in 6.1.5.1 above.</p> <p>6.2. HARD COPY FORMAT</p> <p>6.2.1. The accepted OQRC hard copies must:</p> <p>6.2.1.1. Be printed on paper with pages of 320-370 gsm polyester film (such as Pico Film), matt surface and white colour, and bound white spiral coil (PLASTIKOIL®);</p> <p>6.2.1.2. Contain no more than four (4) sheets;</p> <p>6.2.1.3. Be produced and printed exclusively in black and white.</p> <p>6.3. SOFT COPY FORMAT</p> <p>6.3.1. The OQRC must be provided as a PDF file with searchable text that matches the printed publication's format and layout. Links, bookmarks and thumbnails are to be included in the PDF file. All references made to a specific paragraph, figure, appendix must be appropriately linked.</p> <p>6.3.2. Viewing the OQRC PDF: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.</p> <p>6.3.3. Soft Copy format submission size below 7MB – The OQRC PDF and its native file may be submitted via email as follows:</p> <p>6.3.3.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.</p> <p>6.3.3.2. Subject Field: EBS-ILS-202 – OQRC – [Rev #] – [Date of Issue]</p> <p>6.3.4. Soft Copy format submission size at or above 7MB - The OQRC PDF and its native file must be submitted on CD or DVD media and be labelled as follows:</p>	

Solicitation No. - N° de l'invitation
W8486-195833/A
Client Ref. No. - N° de réf. du client
W8486-195833

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

- 6.3.4.1. Expeditionary Barrier System
- 6.3.4.2. OQRC;
- 6.3.4.3. EBS-ILS-202;
- 6.3.4.4. The Revision number, and
- 6.3.4.5. The date of issue.

A3.7 DID – Provisioning Parts Breakdown

DATA ITEM DESCRIPTION													
1. TITLE Provisioning Parts Breakdown	2. IDENTIFICATION NUMBER DID EBS-ILS-203												
3. DESCRIPTION The Provisioning Parts Breakdown (PPB) is a top-down breakdown of the equipment in the configuration in which it is being procured. This breakdown is accomplished by listing all parts included in the end item in a lateral and descending family tree/generation breakdown. In this breakdown, all assemblies, subassemblies and parts are listed in relation to the next higher assembly. This relationship is shown by means of an indentation code as illustrated in the top-down breakdown sequence. For example, an assembly with indentation code B must be followed by a detailed breakdown of all the subsequent indentation codes pertaining to that assembly before the next indentation code B assembly (if any) is, in turn, broken down.													
4. RELATED DOCUMENTS D-01-100-214/SF-000 <i>Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment</i>	5. CONTRACT REFERENCE SOW: Para. 4.3.3.1.1 (pg.28) CDRL: App. A2.7 (pg. 48)												
6 PREPARATION INSTRUCTIONS 6.1 CONTENT 6.1.1 The PPB must contain data as per Table 1 below that supersedes Figures 1 and 5 in D-01-100-214/SF-000. 6.1.2 The PPB attaching parts and fasteners, given a “Y” indentation code, must immediately follow the part which they fasten. 6.1.3 The PPB Data Field definitions can be found at section 3.9.4 of the D-01-100-214/SF-000 specification. The following override applies: <i>Expanded Description (SPTD)</i> must contain the line item's applicable SPTD filename. 6.1.4 For clarity: 6.1.4.1 <i>Contractor's Part Number</i> refers only to the Contractor which DND has contracted to supply the equipment; data from sub-contractors for items that they did not manufacture or do not control are not permitted. This field may be left blank if no data is available, or if it is the same as the MRN. 6.1.4.2 <i>Quantity per Assembly (QPA)</i> refers to the number of times the item is used in the next higher assembly. For example, a C-level item's QPA will show the number of times it is used in its related B-level assembly, without being multiplied by the number of B-level assemblies. 6.1.4.3 <i>Quantity per Equipment (QPE)</i> refers to the total number of times the item is used in the whole prime equipment (A-level). If that quantity exceeds 99999, the figure will show 99999 in the field, with the true quantity (if known) shown in the <i>Expanded Description</i> field. 6.1.4.4 <i>NATO Commercial and Government Entity (NCAGE)</i> Codes can be searched and requested through the NATO portal: https://eportal.nspa.nato.int/AC135Public/scage/CageList.aspx .													
TABLE 1 <table><tr><th>DATA FIELDS REQUIRED</th><th>Field Length</th></tr><tr><td>Item Number</td><td>6</td></tr><tr><td>Indentation Code</td><td>1</td></tr><tr><td>Item Name</td><td>32</td></tr><tr><td>MRN</td><td>30</td></tr><tr><td>NCAGE</td><td>5</td></tr></table>		DATA FIELDS REQUIRED	Field Length	Item Number	6	Indentation Code	1	Item Name	32	MRN	30	NCAGE	5
DATA FIELDS REQUIRED	Field Length												
Item Number	6												
Indentation Code	1												
Item Name	32												
MRN	30												
NCAGE	5												

Contractor's Part Number	30
NATO Stock Number	16
Quantity Per Assembly (QPA)	4
Quantity Per Equipment (QPE)	5
Standard Unit Price	9
Unit Of Issue	2
Reparability Indicator (REP)	1
Government Supplied Material (GSM)	1
Procurement Lead Time (PLT)	3
Shelf Life	2
Usage Rate	5
Recommended Buy Quantity	8
SMR Code	5
Expanded Description	34
Expanded Description (SPTD)	74

- 6.1.5 The Source Maintenance and Recoverability (SMR) Codes are used to communicate maintenance and supply instructions to the various logistic support levels and user organizations for the logistic support of systems, equipment, and end items. The PPB SMR Codes must be chosen from the following list:

SMR Field Position	Code	Application/Explanation
First and Second Position Source Codes	PA	Item procured and stocked for anticipated or known usage. Items are normally considered for replenishment
	PC	Item procured and stocked, but is deteriorative in nature.
	PF	Support equipment which will not be stocked, but which will be centrally procured on demand.
	XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly
	XC	Installation drawing, diagram, instruction sheet, or field Service drawing, that is identified by the manufacturers' part number.
Third Position Maintenance Codes	C	Support item is removed, replaced, used by the operator/crew.
	O	Support item is removed, replaced, or used at the Technician Maintenance level.
	K	Repairable item. Item is removed, replaced, or used at contractor facility.
Fourth Position Repair Codes	C	The lowest maintenance activity capable of complete repair of the support item is the operator/crew.
	O	The lowest maintenance activity capable of complete repair of the support item is the Technician Maintenance level.
	K	Repairable support item. Complete repair capability exists at a designated contractor facility.
	Z	Non-repairable.
Fifth Position Recoverability Codes	C	Repairable item. When uneconomically repairable, condemn and disposed by the operator/crew.
	Z	Non-repairable item. When item becomes unserviceable, condemn and disposed of by authorized activity.
	O	Repairable item. When uneconomically repairable, condemn and dispose at organizational activity.
	K	Repairable item. Condemnation and disposal to be performed at contractor facility.

6.2 GENERAL FORMAT

- 6.2.1 The PPB must be prepared as an MS Excel spreadsheet, formatted IAW D-01-100-214/SF-000.

6.3 HARD COPY FORMAT

6.3.1 The PPB must be printed on paper with these characteristics:

6.3.1.1 Standard US Ledger size (432 mm x 279 mm)

6.3.1.2 Weight of no less than 90 gsm;

6.3.1.3 Brightness of no less than 96 ISO brightness;

6.4 SOFT COPY FORMAT

6.4.1 The PPB must be provided as an MS Excel Spreadsheet file.

6.4.2 **Soft Copy format submission size below 7MB** – The PPB may be submitted via email as follows:

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

6.4.2.2 Subject Field: EBS-ILS-203 – PPB – [Rev #] – [Date of Issue]

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

6.4.3.1 Expeditionary Barrier System

6.4.3.2 Provisioning Parts Breakdown;

6.4.3.3 EBS-ILS-203;

6.4.3.4 The Revision number, and

6.4.3.5 The date of issue.

A3.8 DID – Supplementary Provisioning Technical Documentation

DATA ITEM DESCRIPTION	
1. TITLE Supplementary Provisioning Technical Documentation	2. IDENTIFICATION NUMBER DID EBS-ILS-204
3. DESCRIPTION The Supplementary Provisioning Technical Documentation (SPTD) fully identifies and describes part(s) that may be catalogued.	
4. RELATED DOCUMENTS D-01-100-214/SF-000 <i>Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment</i> D-01-400-001/SG-000 <i>Standard - Engineering Drawing Practices for Class 1 Drawings and Technical Data List</i>	5. CONTRACT REFERENCE SOW: Para. 4.3.3.2.1 (pg.28) CDRL: App. A2.8 (pg. 49)
<p>6. PREPARATION INSTRUCTIONS</p> <p>6.1. CONTENT</p> <p>6.1.1. The Supplementary Provisioning Technical Documentation (SPTD) must be provided for each item appearing on the Provisioning Documentation, as follows:</p> <p>6.1.1.1. The SPTD must include the technical data required for DND to classify and fully describe the item within the NATO codification system, allowing for item identification and cataloguing purposes.</p> <p>6.1.1.2. Key elements of good SPTD:</p> <p>6.1.1.2.1. Displays the true manufacturer company logo & address (or NCAGE), and MRN (see D-01-100-214/SF-000 for definitions.).</p> <p>6.1.1.2.2. Lists characteristic data about the item.</p> <p>6.1.1.2.3. Clearly shows the item in question.</p> <p>6.1.1.2.4. Shows where the item fits in the next higher assembly (where practical).</p> <p>6.2. GENERAL FORMAT</p> <p>6.2.1. The SPTD must be prepared as black and white line drawing(s) or with good quality photograph(s) within a Technical Datasheet.</p> <p>6.2.1.1. If prepared as a drawing, the SPTD must follow the drawing format of D-01-400-001/SG-000 section 7.4, with attached parts lists (for assemblies), so that DND can ensure that the Provisioning Documentation reflects the current and complete configuration of the equipment being produced.</p> <p>6.3. HARD COPY FORMAT</p> <p>6.3.1. The SPTD must be printed on Ledger (11x17) paper with these characteristics:</p> <p>6.3.1.1. Weight of no less than 90 gsm;</p> <p>6.3.1.2. Brightness of no less than 96 ISO brightness;</p> <p>6.4. SOFT COPY FORMAT</p> <p>6.4.1. The SPTD must be submitted in PDF file type, with filenames in the following format: (MRN) _ (NCAGE) _(item name).pdf.</p> <p>6.4.2. Soft Copy format submission size below 7MB – The SPTD PDFs may be submitted via email as follows:</p> <p>6.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.</p> <p>6.4.2.2. Subject Field: EBS-ILS-204 – SPTD – [Rev #] – [Date of Issue]</p> <p>6.4.3. Soft Copy format submission size at or above 7MB – The SPTD PDFs must be submitted on CD or DVD media and be labelled as follows:</p> <p>6.4.3.1. Expeditionary Barrier System</p>	

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Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

6.4.3.2. SPTD;
6.4.3.3. EBS-ILS-204;
6.4.3.4. The Revision number, and
6.4.3.5. The date of issue.

A3.9 DID – Identification Labels for Storage & Shipment and Packaging Codes

DATA ITEM DESCRIPTION	
1. TITLE Packaging, Labels and Codes	2. IDENTIFICATION NUMBER DID EBS-ILS-205
3. DESCRIPTION The Packaging, Labels and Codes ensures that the labelling used to identify packages for items procured by DND and shipped to and stored at a Canadian facility comply with CAF Specifications. As well, this will allow DND to obtain a complete record of packaging codes for catalogued items of the equipment.	
4. RELATED DOCUMENTS D-LM-008-011/SF-001 <i>Preparation and Use of Packaging Requirements Codes, 1988-11-10;</i> D-LM-008-002/SF-001 <i>Specification for Marking for Storage and Shipment, 1991-08-01;</i> D-01-400-002/SF-000 <i>Levels of Engineering Drawings and Associated Lists, 2011-03-01.</i>	5. CONTRACT REFERENCE SOW: Para. 4.4.3 (pg. 28) CDRL: App. A2.9 (pg. 50)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT AND GENERAL FORMAT 6.1.1. The Identification Labels for Storage & Shipment design, populated with the appropriate data, must be provided as Level 1 drawings (see D-01-400-002/SF-000) and include dimensions to show the measurements as defined by D-LM-008-002/SF-001 (example: text size, bar code dimensions). 6.1.2. A separate Packaging Code (CF271 Form) must be provided electronically for each item that: 6.1.2.1. Requires special packaging, packing, or preservation considerations to meet the required protection level (see Error! Reference source not found. of the SOW), as per D-LM-008-011/SF-001 (see Table 1 below); and, 6.1.2.2. Has a NATO Stock Number (NSN). 6.1.3. The CF271 forms' file name must correspond to the item listed within, either by its part number or NSN (example: CF271 9422-01-552-8836.xls). 6.2. HARD COPY FORMAT 6.2.1. The Identification Labels for Storage & Shipment designs must be printed on paper with these characteristics: 6.2.1.1. Standard US Ledger size (432 mm x 279 mm) 6.2.1.2. Weight of no less than 90 g/m ² ; 6.2.1.3. Brightness of no less than 96 ISO brightness; 6.3. SOFT COPY FORMAT 6.3.1. The Identification Labels for Storage & Shipment designs must be provided as PDF files. 6.3.2. The Identification Labels for Storage & Shipment designs PDFs containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape. 6.3.3. The Packaging Codes (CF271 forms) must be provided as MS Excel Spreadsheet files. 6.3.4. Soft Copy format submission size below 7MB – The Identification Labels for Storage & Shipment and Packaging Codes may be submitted via email as follows: 6.3.4.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.3.4.2. Subject Field: EBS-ILS-205 – Identification Labels for Storage & Shipment and Packaging Codes – [Rev #] – [Date of Issue] 6.3.5. Soft Copy format submission size at or above 7MB – The Identification Labels for Storage & Shipment and Packaging Codes files must be submitted on CD or DVD media and be labelled as follows: 6.3.5.1. Expeditionary Barrier System	

ANNEX "B"

TECHNICAL PROPOSAL REQUIREMENTS AND BID EVALUATION

1.0 GENERAL

1.1 Introduction

- 1.1.1 This document is split in two parts and defines the criteria that will be used to determine the winning offer for the procurement of the Expeditionary Barrier System (EBS).
 - 1.1.1.1 The first part, Technical Proposal Requirements, defines the information and samples required from the Offerors for their proposal to be evaluated.
 - 1.1.1.2 The second part, Bid Evaluation, defines the evaluation process Canada will undertake, and describes the Evaluation Trial tests and items that will be evaluated.

2.0 TECHNICAL PROPOSAL REQUIREMENTS

2.1 Responding to Evaluation Criteria

- 2.1.1 Offerors must provide the information required for each listed requirement in accordance with the method identified in the "Compliance Documentation Required" column in the Evaluation of Key Mandatory Requirements table(s).
 - 2.1.1.1 The following compliance methods define the information required:
 - 2.1.1.1.1 **Compliance Statement (CS)** - Where "CS" is identified, the Offeror must describe in detail how the equipment offered fully complies with the requirement. Supporting documentation is requested but not essential.
 - 2.1.1.1.2 **Test Report (TR)** - Where "TR" is identified, the Offeror must provide a completed and detailed Test Report, including test procedures, data and results, for tests conducted on the equipment offered to confirm it fully complies with the requirement.
- 2.1.2 For each listed requirement, the Offeror must provide a response in the "Offeror's Response/References" column in the Evaluation of Key Mandatory Requirements table(s) to clearly explain how the requirement is met, either by including the specific reference to indicate where in their proposal the information is found or including the complete response directly in that column.

2.2 Evaluation Trial Offeror Samples and FSRs

- 2.2.1 Successful Offerors from Phase 1 advancing to Phase 2 Evaluation Trial must deliver complete samples of each of the following items, all at no cost to Canada:
 - 2.2.1.1 One (1) x roll of Geotextile Fabric, as per Annex A SOW para. A1.2.5, measuring 2000 mm x 5000 mm x 1.37 mm used in the EBS,
 - 2.2.1.2 One (1) x Welded Wire Mesh Panels for the EBS-2 (for the 4mm properties testing),
 - 2.2.1.3 One (1) x raw (preformed) AISI 1010 carbon steel rod stock of 4mm diameter 500mm length (used in the construction of the Welded Wire Mesh Panels),
 - 2.2.1.4 One (1) x Welded Wire Mesh Panels for the EBS-4 (for the 5mm properties testing), and

- 2.2.1.5 One (1) x raw (preformed) AISI 1010 carbon steel rod stock of 5mm diameter and 500mm length (used in the construction of the Welded Wire Mesh Panels),
- 2.2.2 The Offerors must deliver the samples no later than **45 calendar days** after being informed of the successful results of Phase 1 – Evaluation of Key Mandatory Requirements, to the following address:
- Commanding Officer
Canadian Forces Support Unit Ottawa
CMTT Building 346
360 Paul Benoit Driveway
Ottawa, On
K1V 2E6
ATTN: Chris Salisbury 819-939-0676 or Dan Lacasse 819-939-0682
- 2.2.2.1 The Offerors must supply samples that are pristine, although not necessarily new, and must not be pre-conditioned making it not representative of the items that would be provided as part of the contract.
- 2.2.2.2 Offerors that do not provide the complete samples of the items of EBS, in the time allowed, will be deemed non-compliant and the samples returned.
- 2.2.2.3 DND will be not be returning complete samples stated in Para 2.2.1.1 to 2.2.1.5 once used in the trial, and testing is complete. Testing planned will be destructive, therefore samples will not be returned.

3.0 BID EVALUATION

3.1 Technical Evaluation of Compliance

- 3.1.1 Phase 1: Evaluation of Key Mandatory Requirements
- 3.1.1.1 The evaluation team will use the Offeror's submitted proposal to determine compliance against key mandatory requirements. See the Evaluation of Key Mandatory Requirements table(s) for more details.
- 3.1.2 Phase 2: Evaluation Trial
- 3.1.2.1 Testing and trials will be conducted using the complete samples supplied by Offerors having successfully moved onto Phase 2 Evaluation Trial.
- 3.1.3 Phase 3: UV Verification Test Trial
- 3.1.3.1 Phase 3 UV Verification Test Trial will be conducted on the winning Offeror's samples having successfully passed the Phase 2 Evaluation Trial and having the lowest price package.

3.2 Evaluation Trial

- 3.2.1 The aim of the Evaluation Trial is to assess the performance of submitted samples against the requirements identified in the Evaluation Trial table(s).
- 3.2.2 Canada will conduct the Evaluation Trial within the National Capital Region area, or at some other appropriate venue in Canada, under the supervision of DND.
- 3.2.3 Trial Personnel will include:
- 3.2.3.1 DND EBS Project Trials Officer(s).
- 3.2.3.2 Additional assistance to set up and monitor the trials will be provided by the DND EBS TA as required.
- 3.2.4 Evaluation Trial Testing

3.2.4.1 See the Evaluation Trial table for more details.

3.2.5 Assessment

3.2.5.1 Canada will assess each Offeror's system, and results of all tests will be compiled by Technical Staff which will consist of DND EBS Project Trials Officer(s) and Subject Matter Experts.

3.2.5.2 Results of compliance and non-compliance will be provided through PSPC CA.

3.2.5.3 The EBS contract will be awarded to the Offeror whose EBS sample results meets or exceeds the performance requirement in the Evaluation Trial table and has the lowest price package.

3.3 UV Evaluation Trial

3.3.1 The aim of the UV Evaluation Trial is to verify the UV performance of the winning Offeror's sample against the requirement identified in the Evaluation Trial table.

3.3.2 Canada will conduct the UV Evaluation Trial within the National Capital Region area, or at some other appropriate venue in Canada, under the supervision of DND.

3.3.3 Trial Personnel will include:

3.3.3.1 DND EBS Project Trials Officer(s).

3.3.3.2 Additional assistance to set up and monitor the trials will be provided by the DND EBS TA as required.

3.3.4 UV Evaluation Trial Testing

3.3.4.1 See the UV Evaluation Trial table for more details.

3.3.5 Assessment

3.3.5.1 Canada will assess the winning Offeror's system, and results of the UV test will be compiled by DND EBS Project Trials Officer(s).

3.3.5.2 Results of compliance and non-compliance will be provided through PSPC CA.

3.3.5.3 If the winning Offeror's EBS results meet or exceed the UV performance requirement in the Evaluation Trial table then the winning Offeror will be awarded the EBS contract.

3.3.5.4 If the winning Offeror's EBS UV testing results is non-compliance, then the winning Offeror will be required to fix this performance requirement by providing a new fabric for re-testing that will perform IAW Mil-DTL-32488 for re-testing.

3.4 PHASE 1 - Evaluation of Key Mandatory Requirements – Expeditionary Barrier System (EBS)

Serial	Requirement Reference(s)	Requirement Description	Compliance Documentation Required CS - Compliance Statement TR - Test Report	Offeror's Response/References	Compliance (This column is for the Evaluation Team only)	
					"C"	"NC"
M1	Annex A – Para A1.1.3.1	The EBS must be palletized and transportable in a standard twenty (20) foot International Organization Standard (ISO) container.	CS			
M2	Annex A – Para A1.1.3.2	The EBS must be collapsible and stored flat to minimize shipping volume to be easily transportable by air, land or sea.	CS			
M3	Annex A – Para A1.5.1.1	The EBS must operate and be stored outdoors without deterioration, at temperatures from –40°C and 49°C	CS			
M4	Annex A – Para A1.4.1.1	An EBS set of cells must be filled with the full range of fill materials using heavy equipment commonly available to the combat engineers in a battle group. This would include a wheeled loader with a bucket of 2.25 cubic yards.	CS			
M5	Annex A – Para A1.4.3.10	The Geotextile Fabric must meet the requirement for Min strength retention for chemical exposure, diesel fuel, de-icing fluid, sulfuric acid, calcium hydroxide, high temperature exposure, low temperature exposure, and blowing sand abrasion as per Table II. Fabric properties in MIL-DTL-32488	TR			
M6	ANNEX A – Para A1.4.3.1	The EBS Apparent Opening Size (AOS) of the Geotextile Fabric must be between 0.11 mm to 0.13 mm IAW ASTM D4751.	TR			
M7	ANNEX A – Para A1.4.3.5	The EBS Geotextile Fabric permittivity must be of 1.1 to 1.6 μ S-1 IAW ASTM 4491 water permeability test.	TR			
M8	ANNEX A – Para A1.4.3.9	The EBS Geotextile Fabric cone drop test properties must meet the requirement as per Table II. Fabric properties in	TR			

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hl668
File No. - N° du dossier
hl668, W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

Serial	Requirement Reference(s)	Requirement Description	Compliance Documentation Required CS - Compliance Statement TR - Test Report	Offeror's Response/References	Compliance (This column is for the Evaluation Team only)	
					"C"	"NC"
M9	ANNEX A – Para A1.4.3.4	MIL-DTL-32488. The Geotextile Fabric retention breaking strength after 1000 hours of UV exposure IAW ASTM D4355 must be above 80% of the original sample strength in both directions.	TR			

3.5 PHASE 2 - Evaluation Trial – Expeditionary Barrier System (EBS)

Serial	Requirement Reference(s)	Requirement Description	Evaluation Trial Method/Plan	Compliance (This column is for the Evaluation Team only)	
				"C"	"NC"
T1	ANNEX A – Para A1.4.4.1	Wire Properties (Tensile Yield Strength) The EBS Wire Mesh tensile yield strength must meet or exceed 650 MPa with the 4 mm (nominal) diameter and 590 MPa with the 5 mm (nominal) diameter IAW ASTM E8-13a.	Equipment Requirements: One (1) x raw (preformed) AISI 1010 carbon steel rod stock of 4mm diameter 500mm length, one (1) x raw (preformed) AISI 1010 carbon steel rod stock of 5mm diameter 500mm length, and tensile testing equipment. Concept of Test: IAW ASTM E8-13a Compliance achieved if the EBS 4mm and 5mm raw steel rod samples tested meet or exceed the tensile yield strength of 650 MPa with the 4 mm (nominal) diameter and 590 MPa with the 5 mm (nominal) diameter		
T2	ANNEX A – Para A1.4.4.2	Wire Properties (Weld Shear Strength) The EBS weld shear strength must meet or exceed 480 MPa with the 4 mm (nominal) diameter and 455 MPa with the 5 mm (nominal) diameter IAW ASTM A185.	Equipment Requirements: one (1) x Welded Wire Mesh Panel for the EBS-2 (for the 4mm properties testing), one (1) x Welded Wire Mesh Panels for the EBS-4 (for the 5mm properties testing), and tensile testing equipment. Concept of Test: IAW ASTM A185 Compliance achieved if the EBS – 2 and EBS – 4 Welded Wire Mesh Panels samples tested meet or exceed 480 MPa with the 4 mm (nominal) diameter and 455 MPa with the 5 mm (nominal) diameter.		
T3	ANNEX A – Para A1.4.4.3	Wire Properties (Ultimate Strength) The EBS ultimate strength must meet or exceed 685 MPa +/- 105 MPa with the 4 mm (nominal) diameter and 650 MPa +/- 105 MPa with the 5 mm (nominal) diameter IAW ASTM	Equipment Requirements: One (1) x raw (preformed) AISI 1010 carbon steel rod stock of 4mm diameter 500mm length, one (1) x raw (preformed) AISI 1010 carbon steel rod stock of 5mm diameter 500mm length, and tensile testing equipment. Concept of Test: IAW ASTM E8-13a		

Serial	Requirement Reference(s)	Requirement Description	Evaluation Trial Method/Plan	Compliance (This column is for the Evaluation Team only)	
				"C"	"NC"
		E8-13a	Compliance achieved if the EBS 4mm and 5mm raw steel rod samples tested meet or exceed 685 MPa +/- 105 MPa with the 4 mm (nominal) diameter and 6500 MPa +/- 105 MPa with the 5 mm (nominal) diameter.		
T4	ANNEX A – Para A1.4.4.4	Wire Properties (Elongation) The EBS Elongation at rupture must be 7% +/- 2% with the 4 mm (nominal) diameter and 7% +/- 2% with the 5 mm (nominal) diameter IAW ASTM E8-13a.	Equipment Requirements: One (1) x raw (preformed) AISI 1010 carbon steel rod stock of 4mm diameter 500mm length, one (1) x raw (preformed) AISI 1010 carbon steel rod stock of 5mm diameter 500mm length, and tensile testing equipment. Concept of Test: IAW ASTM E8-13a Compliance achieved if the EBS 4mm and 5mm raw steel rod samples tested meet 7% +/- 2% with the 4 mm (nominal) diameter and 7% +/- 2% with the 5 mm (nominal) diameter. Equipment Requirements: One (1) Geotextile Fabric roll, and tensile testing equipment. Concept of Test: As per test method ASTM D4632 Compliance achieved if the Geotextile Fabric test results meet the requirement in Table II. Fabric properties in MIL-DTL-32488.		
T5	ANNEX A – Para A1.4.3.2	Grab tensile and Elongation Test The Geotextile Fabric Grab tensile strength (MD and TD) and elongation (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.	Equipment Requirements: One (1) Geotextile Fabric roll, and a tensile testing equipment. Concept of Test: As per test method ASTM D4632 Compliance achieved if the Geotextile Fabric test results meet the requirement in Table II. Fabric properties in MIL-DTL-32488.		
T6	ANNEX A – Para A1.4.3.3	Wide Width and Elongation Tensile Test The Geotextile Fabric wide width tensile strength (MD and TD) and wide width elongation (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.	Equipment Requirements: One (1) Geotextile Fabric roll, and a tensile testing equipment. Concept of Test: As per test method ASTM D4595 Compliance achieved if the Geotextile Fabric test results meet the requirement in Table II. Fabric properties in MIL-DTL-32488.		

Serial	Requirement Reference(s)	Requirement Description	Evaluation Trial Method/Plan	Compliance (This column is for the Evaluation Team only)	
				"C"	"NC"
T7	ANNEX A – Para A1.4.3.6	Trapezoidal Tear Strength Test The Geotextile Fabric trapezoidal tear strength (MD and TD) properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.	Equipment Requirements: One (1) Geotextile Fabric roll, and a tensile testing equipment. Concept of Test: As per test method ASTM D4533 Compliance achieved if the Geotextile Fabric test results meet the requirement in Table II. Fabric properties in MIL-DTL-32488.		
T8	ANNEX A – Para A1.4.3.7	Burn Propagation Test The Geotextile Fabric Flammability performance must meet the burn propagation test as per MIL-DTL-32488 Para 4.5.5.	Equipment Requirements: A set of Three small scale EBS cells prepared from the Geotextile fabric roll, Vertical Flame testing equipment. Concept of Test: The burn propagation test shall be conducted by exposing a small scale sand-filled EBS cell to an open flame and assessing the burn potential of the fabric. The small scale EBS cell of dimension 9mm x 9mm x 21mm is prepared. The assembled EBS is filled with a clean concrete sand with moisture content of 5 to 7.5 percent. A The Tirrill burner is adjusted to provide a propane gas flame of 40 mm. The burner is positioned perpendicularly to the surface of one of the EBS cell walls such that the axis of the burner is 20 mm above the bottom of the wall. The tip of the Tirrill burner is placed 25mm from the EBS cell wall for a flaming contact time of 20s, after which the flame is removed. Compliance achieved if after removal of the flame, any fabric that had begun to burn must be self-extinguishing within 20 seconds.		
T9	ANNEX A – Para A1.4.3.8	CBR Puncture Strength Test	Equipment Requirements: One (1) Geotextile Fabric roll, and a CRE type tensile testing equipment with attached		

Serial	Requirement Reference(s)	Requirement Description	Evaluation Trial Method/Plan	Compliance (This column is for the Evaluation Team only)	
				"C"	"NC"
		The Geotextile Fabric CBR puncture strength properties must meet the requirement as per Table II. Fabric properties in MIL-DTL-32488.	plunger and clamp. Concept of Test: As per test method ASTM D6241 Compliance achieved if the Geotextile Fabric test results meet the requirement in Table II. Fabric properties in MIL - DTL-32488.		

3.6 PHASE 3 – UV Evaluation Trial – Expeditionary Barrier System (EBS)

Serial	Requirement Reference(s)	Requirement Description	Evaluation Trial Method/Plan	Compliance (This column is for the Evaluation Team only)	
				"C"	"NC"
T13	ANNEX A – Para A1.4.3.4	<p>Min Strength Retention Test (UV Evaluation Trial)</p> <p>The Geotextile Fabric retention breaking strength after 1000 hours of UV exposure IAW ASTM D4355 must be above 80% of the original sample strength in both directions.</p>	<p>Equipment Requirements: One (1) Geotextile Fabric roll, a tensile testing equipment and a Xenon-arc apparatus with daylight filters.</p> <p>The spectral power distribution of the xenon arc with the daylight filters, should comply with the requirements specified by ASTM G155 Table 1 to simulate a terrestrial sunlight.</p> <p>The tensile testing equipment can be either a Constant Rate of Extension (CRE) type or a Constant Rate of Traverse (CRT) type.</p> <p>Concept of the test:</p> <p>The geotextile sample is exposed in a xenon arc apparatus under specified irradiance level (0.35 w/(m2.nm) at 340 nm) and specified spectral power distribution (ASTM G155 Table 1) for 1000 hours as per ASTM D4355. The sample breaking strength is evaluated as per ADTM D5035 before and after the exposure. The sample's percentage strength retained is determined.</p> <p>Compliance achieved if: the retained strength after 1000 hours UV exposure is above the 80% of the original geotextile sample strength in both directions.</p>		

ANNEX "C"

PRICING SCHEDULE

A. Pricing

Prices: For each item offered, the Offeror must provide a firm unit price for both destinations and both Periods (Period 1 and Period 2) of the Standing Offer in Canadian funds, DDP Delivered Duty Paid to destinations Incoterms 2000, Applicable Taxes extra and Custom Duties included.									
Department of National Defence Canadian Forces Supply Depot (Montreal) 6363 Notre-Dame Est Montreal, QC H1N 3V9 Canada				Department of National Defence Canadian Forces Supply Depot (Edmonton) 195 Ave & 82nd Street – Bldg. 236 Edmonton, AB T0A 2H0 Canada					
Item #	Description	Destination	Unit of Issue	Estimated yearly quantity	Period 1 (MM/DD/YYYY) To (MM/DD/YYYY)	Period 2 (MM/DD/YYYY) To (MM/DD/YYYY)	Option Period 1 (Prices to accordance with Standing Offer)	Option Period 2 (Prices to accordance with Standing Offer)	Option Period 3 (Prices to accordance with Standing Offer)
1A	EBS 1 - Green	Montreal Edmonton	EA	10	\$	\$	\$	\$	\$
1B	EBS 1 - Tan	Montreal Edmonton	EA	200	\$	\$	\$	\$	\$
2A	EBS 2 - Green	Montreal Edmonton	EA	350	\$	\$	\$	\$	\$
2B	EBS 2 - Tan	Montreal Edmonton	EA	350	\$	\$	\$	\$	\$
3A	EBS 3 - Green	Montreal Edmonton	EA	10	\$	\$	\$	\$	\$
3B	EBS 3 - Tan	Montreal Edmonton	EA	150	\$	\$	\$	\$	\$
4A	EBS 4 - Green	Montreal Edmonton	EA	10	\$	\$	\$	\$	\$

4B	EBS 4 - Tan	Montreal Edmonton	EA	25	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
5A	EBS 5 - Green	Montreal	EA	25	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Edmonton	EA	10	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
5B	EBS 5 - Tan	Montreal	EA	25	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Edmonton	EA	25	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
6	EBS 6 - Tan	Montreal	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Edmonton	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
7	EBS 7 - Tan	Montreal	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Edmonton	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
8	EBS 8- Tan	Montreal	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
		Edmonton	EA	50	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

B. Volume Discounts

The volume discount is based on the total number of units bought at the same time. The discount is to be applied to the price indicated in A.
Pricing.

Item #	Quantity	Discount
1A	6 to 10 units	%
	10 to 50 units	%
1B	51 to 100 units	%
	101 to 150 units	%
	151 to 200 units	%
	10 to 50 units	%
2A	51 to 100 units	%
	101 to 150 units	%
	151 to 200 units	%
	201 plus units	%

2B	10 to 50 units		%
	51 to 100 units		%
	101 to 150 units		%
	151 to 200 units		%
	201 plus units		%
3A	6 to 10 units		%
3B	10 to 50 units		%
	51 to 100 units		%
	101 to 150 units		%
4A	6 to 10 units		%
4B	6 to 10 units		%
	11 to 20 units		%
	21 to 25 units		%
5A	6 to 10 units		%
5B	6 to 10 units		%
	11 to 20 units		%
	21 to 25 units		%
6	10 to 30 units		%
	31 to 40 units		%
	41 to 50 units		%
7	10 to 30 units		%
	31 to 40 units		%
	41 to 50 units		%

Solicitation No. - N° de l'invitation
W8486-195833/A
Client Ref. No. - N° de réf. du client
W8486-195833

Amd. No. - N° de la modif.

File No. - N° du dossier
hl668.W8486-195833

Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

8	10 to 30 units		%
	31 to 40 units		%
	41 to 50 units		%

