



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

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

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet BUNKER LINER SET ITEMS	
Solicitation No. - N° de l'invitation W8486-184394/A	Date 2019-01-29
Client Reference No. - N° de référence du client W8486-184394	
GETS Reference No. - N° de référence de SEAG PW-\$\$HL-668-76320	
File No. - N° de dossier hl668.W8486-184394	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-03-12	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: 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	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

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

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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	3
1.1 REQUIREMENT - BID	3
1.2 DEBRIEFINGS	3
1.3 TRADE AGREEMENTS	3
1.4 EPOST CONNECT.....	3
PART 2 - BIDDER INSTRUCTIONS	4
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	4
2.2 SACC MANUAL CLAUSES	4
2.3 SUBMISSION OF BIDS.....	4
2.4 ENQUIRIES - BID SOLICITATION.....	4
2.5 APPLICABLE LAWS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS.....	5
3.1 BID PREPARATION INSTRUCTIONS	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	7
4.1 EVALUATION PROCEDURES.....	7
4.2 BASIS OF SELECTION - MULTIPLE ITEMS	7
PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION	8
5.1 CERTIFICATION REQUIRED WITH THE BID	8
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	8
PART 6 - RESULTING CONTRACT CLAUSES	10
6.1 SECURITY REQUIREMENTS	10
6.2 REQUIREMENT - CONTRACT.....	10
6.3 STANDARD CLAUSES AND CONDITIONS.....	10
6.4 TERM OF CONTRACT	10
6.5 AUTHORITIES	11
6.6 PAYMENT	12
6.7 INVOICING INSTRUCTIONS	13
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	13
6.9 APPLICABLE LAWS.....	13
6.10 LICENSING.....	13
6.11 INSPECTIONS/TESTS.....	14
6.12 INTELLECTUAL PROPERTY RIGHTS	14
6.13 DRAWINGS, REPORTS, DATA.....	14
6.14 PRIORITY OF DOCUMENTS	14
6.15 DEFENCE CONTRACT	14
6.16 SACC MANUAL CLAUSES	14
6.17 RELEASE DOCUMENTS - DISTRIBUTION.....	15
6.18 PREPARATION FOR DELIVERY	15
ANNEX "A"	16
STATEMENT OF WORK	16

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

ANNEX "B"	54
PRICING SCHEDULE	54
ANNEX "C"	57
MANDATORY CRITERIA	57
ANNEX "D" TO PART 3 OF THE BID SOLICITATION	62
ELECTRONIC PAYMENT INSTRUMENTS.....	62

PART 1 - GENERAL INFORMATION

1.1 Requirement - Bid

The Department of National Defence (DND) has a requirement to procure Bunker Liner Set (BLS), material designed to sustain near missed by artillery, rocket and mortar fire, to be used by the Canadian Armed Forces (CAF) in their assembly of a protection structure as per the Statement of Work at Annex "A".

1.1.1 Note to Tender (Drawings)

A copy of the technical information referred to herein will be forwarded to you by the Director, Supply Chain Operations, DSCO, National Defence Headquarters.

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

1.2 Debriefings

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

1.3 Trade Agreements

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

1.4 Epost Connect

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The [2003](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: 60 days
Insert: 90 days

2.2 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
B1000T	Condition of Material - Bid	2014-06-26

2.3 Submission of Bids

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

2.4 Enquiries - Bid Solicitation

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

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

2.5 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

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

- Section I: Technical Bid
- Section II: Financial Bid
- Section III: Certifications

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

- Section I: Technical Bid (two (2) hard copies)
- Section II: Financial Bid (one (1) hard copy)
- Section III: Certifications one (1) hard copy

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

Prices must appear in the financial bid only, at Annex "B" – Pricing Schedule. No prices must be indicated in any other section of the bid.

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

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

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

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

Section I: Technical Bid

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

In their technical bid, Bidders must clearly explain how the requirement is met and how the equipment offered fully complies with the requirement.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex "B"- Pricing Schedule.

3.2 Electronic Payment of Invoices – Bid

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

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

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

3.3 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
C3011T	Exchange Rate Fluctuation	2013-11-06

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

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

4.1.1.1 Mandatory Technical Criteria

- a. Bidders must provide documentation with their bid clearly indicating how they meet the requirements as per Annex "A" – Statement of Work;
- b. Bidders must complete Annex "C" - Mandatory Criteria;
- c. Bidders must indicate the part number; and,
- d. Bidders must indicate the delivery period at Table E in the pricing schedule.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) The Bidder must bid a firm unit price(s) as per Annex "B"- Pricing Schedule in Canadian funds, Applicable Taxes excluded, DDP Delivered Duty Paid to destination(s) Incoterms 2000, Customs Duties included for each item offered;
- b) The Bidders' financial bid must be in accordance with the Basis of Payment and Annex "B"- Pricing Schedule;
- c) Bidders must bid on all items to be compliant.

4.2 Basis of Selection - Multiple Items

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

The aggregate price will be determined using the total of all items, excluding the optional quantities, (the sum of C1 and C2 of Table C in Annex "B" – Pricing Schedule).

Only one Contract will be issued as a result of this RFP.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certification Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

Canada will also have the right to terminate the Contract 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 Bidder must provide the Contracting Authority with a completed annex titled Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a

Joint Venture, the Bidder must provide the Contracting 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 Contract Award

5.2.3.1 General Environmental Criteria Certification

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

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

Bidders' Authorized Representative Signature

Date

or

- B) The Bidder certifies that the Bidder 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 Bidder must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Bidders' 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 purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

Bidders' Authorized Representative Signature

Date

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement - Contract

The Contractor must provide the items in accordance with the Statement of Work at Annex "A".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is for five (5) years from date of Contract to _____ *(to be added at Contract award)* inclusive

6.4.2 Complete Delivery

The Contractor must make the complete delivery of the firm yearly quantities within twelve (12) months.

6.4.3 Adherence to Delivery Schedule

The contractor will promptly give notice to the Contracting Authority of its inability to meet the contract delivery schedule and will request therein an extension of time stating its proposed revised delivery schedule and offering consideration for such revisions. Until such notice is received and the revised delivery schedule agreed to, the Minister may, pursuant to the General Conditions, on the business day following the due date of delivery of any outstanding materials, **terminate the whole or part of the contract for default.**

6.4.4 Optional Quantities

The Contractor grants to Canada the irrevocable option to acquire the goods, described at 6.2 Requirement – Contract, under the same conditions and at the prices stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option more than once at any time before the expiry of the Contract by sending a written notice.

The optional quantities, for the period of the Contract, are listed at Table C – Optional Quantities in Annex "B" – Pricing Schedule.

6.4.5 Delivery Points

Delivery of the requirement will be made to delivery to:
25 Canadian Forces Supply Depot
6363 Notre Dame Street East
Montreal, QC H1N 2V9
Canada

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

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

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

6.5.2 Procurement Authority *(to be added at Contract award)*

The Project Authority for the Contract 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 is being carried out under the Contract. The Procurement Authority 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.

6.5.3 Technical Authority *(to be added at Contract award)*

The Technical Authority for the Contract is:

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

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

6.5.4 Contractor's Representative

Name and telephone number of the person responsible for:

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

6.6 Payment

6.6.1 Basis of Payment - Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, DDP to destination, as specified in the contract. Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Terms of Payment

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

6.6.3 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
C2000C	Taxes - Foreign-based Contractor	2007-11-30
C2611C	Customs Duties - Contractor Importer	2007-11-30
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2017-08-17

6.6.4 Electronic Payment of Invoices – Contract

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

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

6.7 Invoicing Instructions

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

Each invoice must be supported by the following documents, if applicable: (a) a copy of time sheets to support the time claimed; (b) a copy of the release document and any other documents as specified in the Contract; (c) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses; (d) a copy of the monthly progress report.

2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the appropriate consignee(s) for certification and payment.
 - b. One (1) copy must be forwarded to:
National Defence Headquarters
Richelieu Building
975 St-Joseph Blvd., Gatineau, QC Canada, K1A 0K2
Attention:
 - c. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
3. Payment will only be made on receipt of satisfactory invoices duly supported by specified release documents and/or other documents called for under this contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

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

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>) list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

6.9 Applicable Laws

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

6.10 Licensing

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the Work to be performed under any applicable federal, provincial or municipal

legislation. The Contractor shall be responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor shall provide a copy of any such permit, license or certificate to Canada.

6.11 Inspections/Tests

The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the contract requirements.

The Contractor shall provide, at no additional cost to the price of the contract, all applicable test data, test pieces and samples as may be reasonably required by the DND to verify conformance to contract requirements. The Contractor shall forward at his expense such technical data, test data, test pieces and samples to such location as DND may direct.

6.12 Intellectual Property Rights

Any work conceived, developed, reduced to practice or produced as part of the work under the contract shall vest in and remain the property of the Crown.

6.13 Drawings, reports, Data

All drawings, reports, data, documents or materials produced by the Contractor in providing the specified services shall become the Property of Canada and shall be delivered to the National Defence Headquarters' Technical Authority (TA), and shall not be released to any person or agency without express permission of the TA.

6.14 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the General Conditions 2010A (2018-06-21) Goods (Medium Complexity);
- (c) Annex "A", Statement of Work;
- (d) the Contractor's bid dated _____ .

6.15 Defence Contract

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

6.16 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
D2025C	Wood Packaging Materials	2017-08-17
D5545C	ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)	2010-08-16
D6010C	Palletization	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance – No Specific Requirement	2016-01-28

6.17 Release Documents - Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: _____
- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:
DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
E-mail: ContractAdmin.DQA@forces.gc.ca

6.18 Preparation for Delivery

6.18.1 Preparation for Delivery using Specification D-LM-008-036/SF-000

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

The Contractor must package item number(s) 001 to 008 in quantities of one (1) per package.

6.18.2 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered DDP Delivered Duty Paid Montreal, QC, Incoterms 2000 for shipments from commercial contractor.
2. The Contractor is responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and applicable taxes.

ANNEX "A"
STATEMENT OF WORK

TABLE OF CONTENTS

1.0	SCOPE	18
1.1	PURPOSE	18
1.2	INTENDED USE.....	18
1.3	ACRONYMS AND ABBREVIATIONS.....	18
2.0	APPLICABLE DOCUMENTS	20
2.1	REFERENCES.....	20
2.2	ORDER OF PRECEDENCE	21
3.0	PROJECT MANAGEMENT	21
3.1	PROJECT MANAGEMENT PROGRAM.....	21
3.2	PROJECT MEETINGS.....	21
4.0	INTEGRATED LOGISTICS SUPPORT (ILS)	22
4.1	TECHNICAL PUBLICATION PACKAGE	22
4.2	PROVISIONING DOCUMENTATION.....	23
4.3	PACKAGING, LABELS AND CODES	24
4.4	DATA DELIVERABLE FORMAT	24
5.0	TECHNICAL REQUIREMENTS	24
5.1	OVERVIEW	24
5.2	DELIVERABLE TABLE	25
5.3	PARTS LIST BREAKDOWN TABLE	25
A1.0	APPENDIX: TECHNICAL SPECIFICATION	27
A1.1	SYSTEM REQUIREMENTS	27
A1.2	SYSTEM COMPONENT REQUIREMENTS	27
A1.3	PHYSICAL REQUIREMENTS.....	28
A1.4	PERFORMANCE REQUIREMENTS.....	29
A2.0	APPENDIX: TECHNICAL SPECIFICATION	30
A2.1	SYSTEM REQUIREMENTS	30
A2.2	SYSTEM COMPONENT REQUIREMENTS	30
A2.3	PHYSICAL REQUIREMENTS.....	31
A2.4	PERFORMANCE REQUIREMENTS.....	32
A3.0	32
A4.0	APPENDIX: CONTRACT DATA REQUIREMENTS LIST	32
A4.1	CDRL ITEM LIST.....	32
A4.2	CDRL TABLE DEFINITIONS	33
A4.3	CDRL – MEETING AGENDA	35

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

A4.4	CDRL – MEETING MINUTES	36
A4.5	CDRL – TOP LEVEL ASSEMBLY DRAWING.....	37
A4.6	CDRL - OPERATOR QUICK REFERENCE CARD.....	38
A4.7	CDRL – PROVISIONING PARTS BREAKDOWN	39
A4.8	CDRL – SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION	40
A4.9	CDRL – PACKAGING, LABELS AND CODES	41
A5.0	APPENDIX: DATA ITEM DESCRIPTION.....	42
A5.1	DID ITEM LIST.....	42
A5.2	DID TABLE DEFINITIONS	42
A5.3	DID – MEETING AGENDA	43
A5.4	DID – MEETING MINUTES	44
A5.5	DID – TOP LEVEL ASSEMBLY DRAWING.....	45
A5.6	DID – OPERATOR QUICK REFERENCE CARD.....	46
A5.7	DID – PROVISIONING PARTS BREAKDOWN	47
A5.8	DID – SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION	50
A5.9	DID – PACKAGING, LABELS AND CODES	52

1.0 SCOPE

1.1 Purpose

- 1.1.1 The Department of National Defence (DND) has a requirement to procure Bunker Liner Set (BLS), material designed to sustain near missed by artillery, rocket and mortar fire, to be used by the Canadian Forces (CAF) in their assembly of a protection structure.

1.2 Intended Use

- 1.2.1 The intended use of the BLS is for temporary protection for personnel in response to fallout from Rocket, artillery or mortar fire in conflicted regions.
- 1.2.2 Once the BLS is assembled, it will be reinforced on all sides with Expeditionary Barrier System, and other components. For extra protection against rockets, artillery, and mortars the entrances can be fitted with sets of Half Arch Structure (HAS).

1.3 Acronyms and Abbreviations

BLS	Bunker Liner Set
CA	Contracting Authority
CAGE	Commercial and Government Entity
CDRL	Contract Data Requirements List
CAF	Canadian Armed Forces
CFB	Canadian Forces Base
CFSD	Canadian Forces Supply Depot
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
COTS	Commercial off the Shelf
DCSEM	Director Combat Support Equipment Management
DGLEPM	Director General Land Equipment Program Management
DID	Data Item Description
DND	Department of National Defence
DRDC	Defense Research and Development Canada
DSCO	Director Supply Chain Operations
DTMS	Defence Terminology Management System
FAS	Full Arch Structure
GSM	Grams per Square Meter
HAS	Half Arch Structure
IAW	In Accordance With
ILS	Integrated Logistics Support
ILSM	Integrated Logistics Support Manager
NATO	North Atlantic Treaty Organization

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

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

NCAGE	NATO Commercial and Government Entity
NDHQ	National Defence Headquarters
NDID	National Defence Index of Documentation
NSCM	NATO Supply Code for Manufacturers
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
OS	Operating System
PA	Procurement Authority
PD	Provisioning Documentation
PDF	Portable Document Format
PPB	Provisioning Parts Breakdown
PSPC	Public Works and Government Services Canada
SOW	Statement of Work
SPTD	Supplementary Provisioning Technical Documentation
TA	Technical Authority
TBD	To Be Determined

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		STANDARD - ENGINEERING DRAWING PRACTICES FOR CLASS 1 DRAWINGS AND TECHNICAL DATA LIST
D-01-400-002/SF-000	1983-11-30	SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS
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

COMMERCIALY AVAILABLE

<u>REFERENCE NUMBER</u>	<u>PROMULGATION DATE</u>	<u>REFERENCE TITLE</u>
ASTM 307	2014	STANDARD SPECIFICATION FOR CARBON STEEL BOLTS, STUDS, AND THREADED ROD 60 000 PSI TENSILE STRENGTH
ASTM A563	2015	STANDARD SPECIFICATION FOR CARBON AND ALLOY NUTS
ASTM D4491	2015	STANDARD TEST METHODS FOR WATER PERMEABILITY OF GEOTEXTILES BY PERMITTIVITY
CAN/ULC-S109-14	2014	STANDARD METHOD FOR FLAME TESTS OF FLAMERESISTANT FABRICS AND FILMS
ASTM D4751-12	N/A	STANDARD TEST METHOD FOR DETERMINING APPARENT OPENING SIZE OF A GEOTEXTILE
NFPA 701	2015	STANDARD METHODS OF FIRE FOR FLAME
UNITED STATES ARMY REGULATION 700-82		JOINT REGULATION GOVERNING THE USE AND APPLICATION OF UNIFORM SOURCE MAINTENANCE AND RECOVERABILITY CODES

2.2 Order of Precedence

- 2.2.1 The Contractor must bring to the attention of the TA all perceived inconsistencies between the SOW and the documents attached in the Appendixes and referenced in this SOW.
- 2.2.2 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 representative with the responsibilities to coordinate, execute, and manage the Contractor's project management activities for the Contract. The Contractor's representative must have the total responsibility for all works required under the Contract.
- 3.1.2 The Contractor's representative 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 must ensure that data, personnel and facilities are available for each meeting.
- 3.2.1.2 The Contractor must attend meetings held at the Contractor and DND facilities.
- 3.2.1.3 The Contractor's representative must be present at all meetings. If the Contractor's representative does not have final approval authority for decision making and changes, then the person that has that final approval authority must also be present at all meetings.

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 Contract;
 - 3.2.2.1.2 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 the following:
 - 3.2.2.2.1 Top Level Assembly Drawing
 - 3.2.2.2.1.1 The Contractor must provide a **Top Level Assembly Drawing(s)** (TLAD) IAW CDRL BLS-ILS-201 at Appendix A4.5 (page 37) and its associated DID BLS-ILS-201 at Appendix A5.5 (page 45) to this ANNEX A.

- 3.2.2.3 Refer to Meeting Documentation requirements found at ANNEX A para. 3.2.4 (page 22).
- 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, as required 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 BLS-PM-001 at Appendix A4.3 (page 35) to ANNEX A and its associated DID BLS-PM-001 at Appendix A5.3 (page 43) to ANNEX A.
- 3.2.4.1.2 The Contractor must record, prepare, and provide the **Meeting Minutes** of each meeting IAW CDRL BLS-PM-002 at Appendix A4.4 (page 36) to ANNEX A and its associated DID BLS-PM-002 at Appendix A5.4 (page 44) 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 Technical Publication Package

- 4.1.1 The Contractor must prepare and deliver the following Technical Publications:
- 4.1.1.1 Operator Quick Reference Card
- 4.1.1.1.1 The Contractor must provide an **Operator Quick Reference Card** IAW CDRL BLS-ILS-202 at Appendix A4.6 (page 38) and its associated DID BLS-ILS-202 at Appendix A5.6 (page 46) to ANNEX A, for each of the following:
- 4.1.1.1.1.1 Full Arch Structure (FAS)
- 4.1.1.1.1.2 Half Arch Structure (HAS)
- 4.1.2 Front Matter
- 4.1.2.1 The Contractor must include the following in each Technical Publication:
- 4.1.2.1.1 A cover page (a template of which will be provided by the ILSM) showing the date the publication was issued and the model/system designation;
- 4.1.2.1.2 A List of Effective Pages;
- 4.1.2.1.3 A Revision Control Table;
- 4.1.2.1.4 A detailed Table of Contents and List of Figures & Tables; and
- 4.1.2.1.5 An Acronyms and Abbreviations table
- 4.1.3 Supplementary Information

4.1.3.1 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:

4.1.3.1.1 **Danger.** The danger advisory will be used to draw attention to an extreme, violent and continuous hazard to life;

4.1.3.1.2 **Warning.** The warning advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, etc, which if not strictly observed, could result in injury to or death of personnel;

4.1.3.1.3 **Caution.** The caution advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, etc., which if not strictly observed, could result in maintenance, etc., damage to or destruction of equipment, loss of mission effectiveness or long-term health hazards to personnel;

4.1.3.1.4 **Note.** The note will be used to point out a procedure, event or practice that it is desirable to highlight; and,

4.1.3.1.5 **Example.** The example will be used when required to clarify the preceding text.

4.1.4 Official Language Requirements

4.1.4.1 The Contractor must deliver the Technical Publication in English and Canadian French.

4.1.4.2 The Contractor must have the Technical Publication translated by certified translators, such as members of an authorized provincial association of translators, to ensure the quality of translated text.

4.1.4.3 The Contractor must ensure all translations are consistent with approved DND terminology. Approved terminology sources, in order of priority, are as follows:

4.1.4.3.1 Canadian Oxford Dictionary Second Edition (for English);

4.1.4.3.2 Le Petit Robert Edition 2017 (for French); and

4.1.4.3.3 Termium, PSPC Translation Bureau Linguistic Data Bank (<http://www.termiumplus.gc.ca/>);

4.1.4.4 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.

4.2 Provisioning Documentation

4.2.1 The Contractor must prepare and deliver the following Provisioning Documentation:

4.2.1.1 Provisioning Parts Breakdown

4.2.1.1.1 The Contractor must provide a **Provisioning Parts Breakdown** IAW CDRL BLS-ILS-203 at Appendix A4.7 (page 39) and its associated DID BLS-ILS-203 at Appendix A5.7 (page 47) to this ANNEX A.

4.2.1.2 Supplementary Provisioning Technical Documentation

4.2.1.2.1 The Contractor must provide **Supplementary Provisioning Technical Documentation** IAW CDRL BLS-ILS-204 at Appendix A4.8 (page 40) and its associated DID BLS-ILS-204 at Appendix A5.8 (page 50) to this ANNEX A.

4.3 Packaging, Labels and Codes

- 4.3.1 The Contractor must supply all parts and equipment packaged and packed as per D-LM-008-001/SF-001 following Level C (commercial packaging/pack):
 - 4.3.1.1 Level C Minimum Military Package;
 - 4.3.1.2 Level C Minimum Military Pack;
- 4.3.2 The Contractor must label all packaging, produced under 4.3.1 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.
- 4.3.3 The Contractor must provide **Packaging, Labels and Codes** IAW CDRL BLS-ILS-205 at Appendix A4.9 (page 41) to Annex A, and its associated DID BLS-ILS-205 at Appendix A5.9 (page 52) to this ANNEX A.

4.4 Data Deliverable Format

- 4.4.1 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:
 - 4.4.1.1 Microsoft (MS) Windows 7 Enterprise Operating System (OS), Service Pack 1;
 - 4.4.1.2 MS Internet Explorer (IE) 9.0 with 256 Bit Encryption;
 - 4.4.1.3 MS Office Professional Plus 2013 (Word, Excel, Access, PowerPoint and Outlook);
 - 4.4.1.4 Adobe Acrobat X; and
 - 4.4.1.5 WinZip 8.1 SR-1;

5.0 TECHNICAL REQUIREMENTS

5.1 Overview

- 5.1.1 The Contractor must comply with all specified requirements for each component of the BLS, stated in:
 - 5.1.1.1 A1.0 APPENDIX: TECHNICAL SPECIFICATION
 - 5.1.1.2 A2.0 APPENDIX: TECHNICAL SPECIFICATION

5.2 Deliverable Table

Item	Item Description	Qty	Option
1	(para. A1.0)		
2	FAS Extension (para. A1.0)	1	
3	(para. A2.0)		
4A	Kick-off Meeting (para. 3.2.2)	1	
4B	Meeting Agenda (para. 3.2.4.1.1)	LOT	
4C	Meeting Minutes (para. 3.2.4.1.2)	LOT	
5	Top Level Assembly Drawing(s) (para. 3.2.2.2.1)	LOT	
6	Operator Quick Reference Card (para. 4.1.1.1.1)	LOT	LOT
7A	Provisioning Parts Breakdown (para. 4.2.1.1.1)	LOT	
7B	Option to acquire Spare Parts after approval from DND		TBD
8	Supplementary Provisioning Technical Documentation (para. 4.2.1.2.1)	LOT	
9	Packaging, Labels and Codes (para. 4.3.3)	LOT	

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

5.3 Parts List Breakdown Table

Item	Item Description	QTY
	Main Component	
1	FAS (para. A1.1.1.1)	1
	Parts to Main Component	
1a	Full Arch Liners (para. A1.2.1)	10
1b	Full Arch Liner Hardware Sets (para. A1.2.2)	10
1c	Angle Irons 2.5m (para. A1.2.3)	4
1d	Geotextile Fabric – FAS (para. A1.2.5)	1
	Main Component	
2	FAS Extension (para. A1.1.1.2)	1
	Parts to Main Component	
2a	Full Arch Liners (para. A1.2.1)	2
2b	Full Arch Liner Hardware Sets (para. A1.2.2)	2
2c	Angle Irons 1.0m (para. A1.2.4)	2
2d	Geotextile Fabric – FAS Extension (para. A1.2.6)	1
	Main Component	

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

Item	Item Description	QTY
3	HAS (para. A2.1.1.1)	1
	Parts to Main Component	
3a	Half Arch Liners (para. A2.2.1)	10
3b	Half Arch Liner Hardware Sets (para. A2.2.2)	10
3c	Angle Irons 2.5m (para. A1.2.3)	2
3d	Geotextile Fabric – HAS (para. A2.2.4)	1

A1.0 APPENDIX: TECHNICAL SPECIFICATION

A1.1 System Requirements

A1.1.1 General

A1.1.1.1 The Full Arch Structure (FAS) must consist of the following components, and is further described in detail under the **System Component Requirements** section:

- A1.1.1.1.1 10 x Full Arch Liners;
- A1.1.1.1.2 10 x Full Arch Liner Hardware Sets;
- A1.1.1.1.3 Four (4) x Angle Irons 2.5m;
- A1.1.1.1.4 Geotextile Fabric – FAS;

A1.1.1.2 In addition to the FAS, the FAS Extension must consist of the following components (for extending the FAS surface area), and is further described in detail under the **System Component Requirements** section:

- A1.1.1.2.1 Two (2) x Full Arch Liners;
- A1.1.1.2.2 Two (2) x Full Arch Liner Hardware Sets;
- A1.1.1.2.3 Two (2) x Angle Irons 1.0m
- A1.1.1.2.4 Geotextile Fabric – Extension

A1.1.1.3 The FAS must be put together, without heavy equipment machinery or heavy-duty vehicle, requiring no more than eight (8) persons.

A1.1.1.4 The FAS must be free-standing, self-supporting, and stable when completed.

A1.2 System Component Requirements

A1.2.1 Full Arch Liner

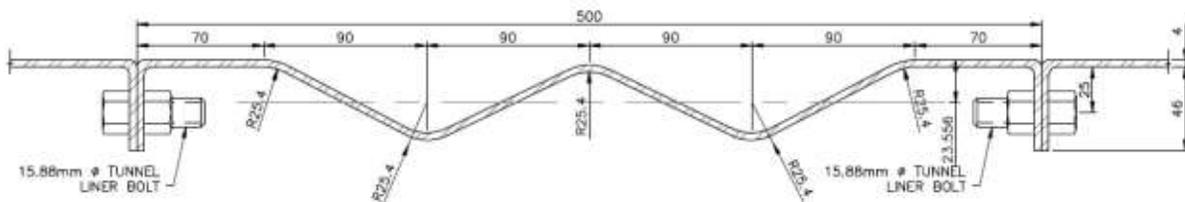
A1.2.1.1 The Full Arch Liner must be assembled from five (5) segments of **Armtec Limited** (or equivalent) curved corrugated two-flange steel tunnel liner plates.

A1.2.1.1.1 The Full Arch Liner Armtec plates must be 4mm in thickness and 500mm in width.

A1.2.1.1.2 The Full Arch Liner Armtec plates must have a moment of inertia for stiffness of unbalanced load of no less than 1634 mm⁴/mm.

A1.2.1.1.3 The Full Arch Liner Armtec plates must be galvanized, as a protective finish to provide corrosion protection, using 100% zinc coating with a thickness no less than 610 gm/m².

A1.2.1.2 The following image depicts the Armtec plates (dimensions are in mm):



A1.2.2 **Full Arch Liner Hardware Set**

- A1.2.2.1 The Full Arch Liner Hardware Set must use ASTM A307 carbon steel bolts of dimensions M16 x 32 mm.
- A1.2.2.2 The Full Arch Liner Hardware Set must use ASTM A563, Grade A, carbon steel nuts.
- A1.2.2.3 The Full Arch Liner Hardware Set must include enough bolts and nuts to assemble the complete Full Arch Liner and connect it to another Full Arch Liner, plus include 10% extra for spares.

A1.2.3 **Angle Irons 2.5m**

- A1.2.3.1 The Angle Irons 2.5m must be 2500mm long and 75mm x 75mm wide with a 9.5mm thickness.

A1.2.4 **Angle Irons 1.0m**

- A1.2.4.1 The Angle Irons 1.0m must be 1000mm long and 75mm x 75mm wide with a 9.5mm thickness.

A1.2.5 **Geotextile Fabric – FAS**

- A1.2.5.1 The Geotextile Fabric – FAS must cover, without gap, the entire outer surface of the FAS when 10 Full Arch Liners are connected together.
 - A1.2.5.1.1 The Geotextile Fabric – FAS must have an overlap of no less than 100mm at any seam.
- A1.2.5.2 The Geotextile Fabric – FAS must have an Apparent Opening Size (AOS) between 0.075 mm and 0.15 mm IAW ASTM D4751-12.

A1.2.6 **Geotextile Fabric – Extension**

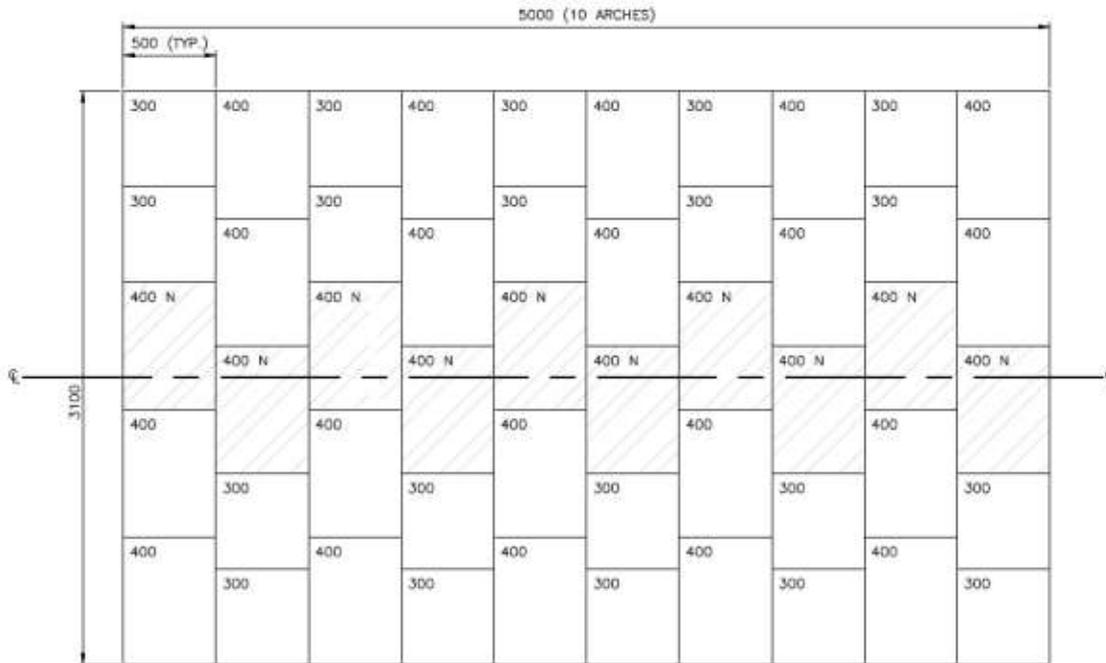
- A1.2.6.1 The Geotextile Fabric – Extension must cover, without gap, the entire outer surface of the two (2) Full Arch Liners when connected together.
 - A1.2.6.1.1 The Geotextile Fabric – Extension must have an overlap of no less than 100mm at any seam.
- A1.2.6.2 The Geotextile Fabric – Extension must have an Apparent Opening Size (AOS) of the between 0.075 mm to 0.15 mm IAW ASTM D4751-12.

A1.3 **Physical Requirements**

- A1.3.1 Size - when 10 Full Arch Liners are connected together:

- A1.3.1.1 The Full Arch Liner must be 5000mm in length.

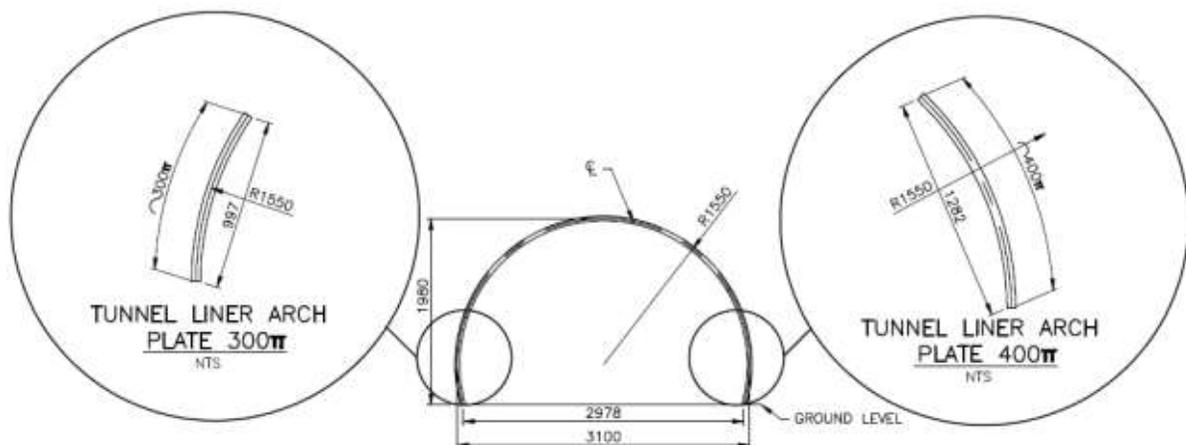
- A1.3.1.1.1 The following image depicts the 10 assembled Full Arch Liners (dimensions are in mm, plates are shown as either 300 pi mm (942mm) or 400 pi mm (1257mm) lengths, 400 N indicates 'no swage' ends, other plates are single-swage):



A1.3.1.2 The Full Arch Liner must be 2980mm +/- 10mm in width (at ground level).

A1.3.1.3 The Full Arch Liner must have 1980mm +/- 10mm interior head clearance height (in the center of the arch).

A1.3.1.3.1 The following image depicts the dimensions of the Full Arch Liner when assembled (dimensions are in mm):



A1.4 Performance Requirements

A1.4.1 Geotextile – FAS & Extension

A1.4.1.1 The Geotextile – FAS & Extension must keep its properties, permeability and prevent degradation for no less than a field service life of two (2) years when exposed to contamination from fluids (diesel, hydraulic fluids, and oils).

- A1.4.1.2 The Geotextile – FAS & Extension must be flame retardant IAW NFPA 701.
- A1.4.1.3 The Geotextile – FAS & Extension must have flammability performance of a maximum damage length of 250 mm IAW CAN/ULC-S109-03.
 - A1.4.1.3.1 The smoke residues resulting from burning of the Geotextile – FAS & Extension must be IAW the Canada Occupational Health and Safety Regulations.
- A1.4.1.4 The Geotextile Fabric – FAS & Extension permittivity must be of 1.1 to 1.7 s-7 IAW ASTM 4491 water permeability test.

A2.0 APPENDIX: TECHNICAL SPECIFICATION

A2.1 System Requirements

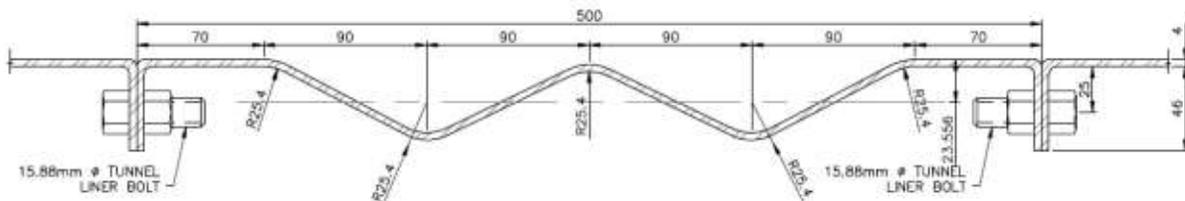
A2.1.1 General

- A2.1.1.1 The Half Arch Structure (HAS) must consist of the following components, and is further described in detail under the **System Component Requirements** section:
 - A2.1.1.1.1 10 x Half Arch Liners;
 - A2.1.1.1.2 10 x Half Arch Liner Hardware Sets;
 - A2.1.1.1.3 Two (2) x Angle Irons 2.5m;
 - A2.1.1.1.4 Geotextile Fabric - HAS;

A2.2 System Component Requirements

A2.2.1 Half Arch Liner

- A2.2.1.1 The Half Arch Liner must be assembled from three (3) segments of **Armtec Limited** (or equivalent) curved corrugated two-flange steel tunnel liner plates.
 - A2.2.1.1.1 The Half Arch Liner Armtec plates must be 4mm in thickness and 500mm in width.
 - A2.2.1.1.2 The Half Arch Liner Armtec plates must have a moment of inertia for stiffness of unbalanced load of no less than 1634 mm⁴/mm.
 - A2.2.1.1.3 The Half Arch Liner Armtec plates must be galvanized, as a protective finish to provide corrosion protection, using 100% zinc coating with a thickness no less than 610 gm/m².
- A2.2.1.2 The following image depicts the Armtec plates (dimensions are in mm):



A2.2.2 Half Arch Liner Hardware Set

- A2.2.2.1 The Full Arch Liner Hardware Set must use ASTM A307 carbon steel bolts of dimensions M16 x 32 mm.
- A2.2.2.2 The Full Arch Liner Hardware Set must use ASTM A563, Grade A, carbon steel nuts.
- A2.2.2.3 The Half Arch Liner Hardware Set must include enough bolts and nuts to assemble the complete Half Arch Liner and connect it to another Half Arch Liner, plus include 10% extra for spares.

A2.2.3 Angle Irons 2.5m

- A2.2.3.1 The Angle Irons 2.5m must be 2500mm long and 75mm x 75mm wide with a 9.5mm thickness.

A2.2.4 Geotextile Fabric – HAS

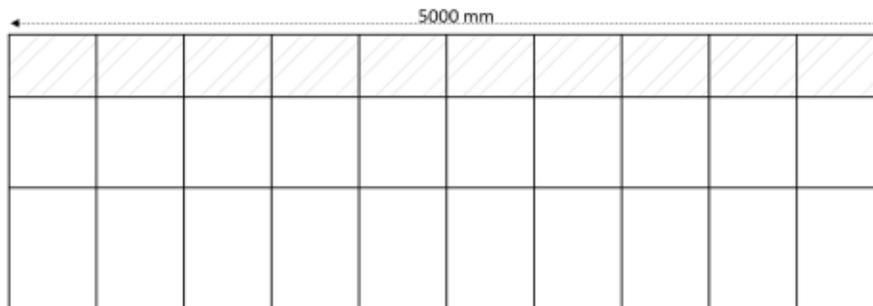
- A2.2.4.1 The Geotextile Fabric – HAS must cover, without gap, the entire outer surface of the when 10 Half Arch Liners are connected together.
 - A2.2.4.1.1 The Geotextile Fabric – HAS must have an overlap of no less than 100mm at any seam.
- A2.2.4.2 The Geotextile Fabric – HAS must have an Apparent Opening Size (AOS) of the between 0.075 mm to 0.15 mm IAW ASTM D4751-12.

A2.3 Physical Requirements

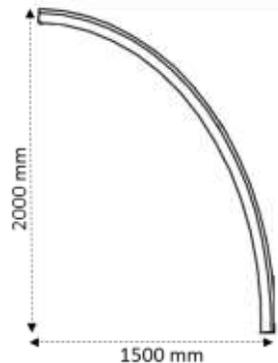
- A2.3.1 Size - when 10 Half Arch Liners are connected together:

- A2.3.1.1 The HAS must be 5000mm in length.

- A2.3.1.1.1 The following image depicts the 10 assembled Half Arch Liners:



- A2.3.1.2 The HAS must be 1500mm +/- 10mm in width (at ground level).
- A2.3.1.3 The HAS must have 2000mm +/- 10mm interior head clearance height.
 - A2.3.1.3.1 The following image depicts the dimensions of the HAS when assembled:



A2.4 Performance Requirements

A2.4.1 Geotextile – HAS

- A2.4.1.1 The Geotextile – HAS must keep its properties, permeability and prevent degradation for no less than a field service life of two (2) years when exposed to contamination from fluids (diesel, hydraulic fluids, and oils).
- A2.4.1.2 The Geotextile – HAS must be flame retardant IAW NFPA 701.
- A2.4.1.3 The Geotextile – HAS must have flammability performance of a maximum damage length of 250 mm IAW CAN/ULC-S109-03.
 - A2.4.1.3.1 The smoke residues resulting from burning of the Geotextile – HAS must be IAW the Canada Occupational Health and Safety Regulations.
- A2.4.1.4 The Geotextile Fabric – HAS permittivity must be of 1.1 to 1.7 s-7 IAW ASTM 4491 water permeability test.

A3.0

A4.0 APPENDIX: CONTRACT DATA REQUIREMENTS LIST

A4.1 CDRL Item List

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

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

A4.2 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
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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.

BLOCK 10 - TOTAL

Indicates the total number of copies (hard copies and soft copies separately) required for both the original submission and for the final submission.

Solicitation No. - N° de l'invitation
W8486-184394/A
 Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.

 File No. - N° du dossier
hl668.W8486-184394

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

A4.3 CDRL – Meeting Agenda

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-PM-001		3. TITLE OR DESCRIPTION OF DATA Meeting Agenda		4. AUTHORITY (Data Item Number) DID BLS-PM-001			
5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.1 (pg. 22) DID: App. A5.3 (pg. 43)		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
10. TOTAL	0	3	0	3			

Solicitation No. - N° de l'invitation
W8486-184394/A
 Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.

 File No. - N° du dossier
hl668.W8486-184394

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

A4.4 CDRL – Meeting Minutes

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-PM-002		3. TITLE OR DESCRIPTION OF DATA Meeting Minutes		4. AUTHORITY (Data Item Number) DID BLS-PM-002			
5. CONTRACT REFERENCE SOW: Para. 3.2.4.1.2 (pg. 22) DID: App. A5.4 (pg. 44)		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
10. TOTAL		0	3	0	3		

Solicitation No. - N° de l'invitation
W8486-184394/A
 Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.

 File No. - N° du dossier
hl668.W8486-184394

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

A4.5 CDRL – Top Level Assembly Drawing

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-ILS-201	3. TITLE OR DESCRIPTION OF DATA Top Level Assembly Drawing		4. AUTHORITY (Data Item Number) DID BLS-ILS-201				
5. CONTRACT REFERENCE SOW: Para. 3.2.2.2.1 (pg. 21) DID: App. A5.5 (pg. 45)	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
10. TOTAL	1	1	1	1			

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

A4.6 CDRL - Operator Quick Reference Card

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-ILS-202	3. TITLE OR DESCRIPTION OF DATA Operator Quick Reference Card		4. AUTHORITY (Data Item Number) DID BLS-ILS-202				
5. CONTRACT REFERENCE SOW Para. 4.1.1.1.1 (pg. 22) DID: App. A5.6 (pg. 46)	6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND ILS Manager				
8. SUBMISSION SCHEDULE First Submission (English): The Contractor must provide a draft English Operator Quick Reference Card for review by Canada no later than 42 calendar days after the Kick off Meeting date. Response Time: Comments on the draft English Operator Quick Reference Card will be provided by Canada no later than 7 calendar days after receipt of the <u>hard copy submission</u> . Subsequent Submission(s) English: The Contractor must provide a revised English Operator Quick Reference Card, 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 English Operator Quick Reference Card will be provided by Canada no later than 7 calendar days after receipt of the <u>hard copy submission</u> . First Submission (Bilingual): The Contractor must provide a draft Bilingual Operator Quick Reference Card for review by Canada no later than 42 calendar days after the acceptance of the English Operator Quick Reference Card. Response Time: Comments on the draft Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard copy submission</u> . Subsequent Submission(s) (Bilingual): The Contractor must provide a revised Bilingual Operator Quick Reference Card, 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 Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard 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
			Issued with each FAS	0	0	1	0
			Issued with each HAS	0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
	0	0	0	0			
10. TOTAL	1	1	2	1			

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.

File No. - N° du dossier
hl668.W8486-184394

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

A4.7 CDRL – Provisioning Parts Breakdown

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-ILS-203		3. TITLE OR DESCRIPTION OF DATA Provisioning Parts Breakdown		4. AUTHORITY (Data Item Number) DID BLS-ILS-203			
5. CONTRACT REFERENCE SOW: Para. 4.2.1.1.1 (pg. 23) DID: App. A5.7 (pg. 47)		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 56 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
10. TOTAL	1	1	1	1			

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

A4.8 CDRL – Supplementary Provisioning Technical Documentation

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-ILS-204	3. TITLE OR DESCRIPTION OF DATA Supplementary Provisioning Technical Documentation		4. AUTHORITY (Data Item Number) DID BLS-ILS-204				
5. CONTRACT REFERENCE SOW: Para. 4.2.1.2.1 (pg. 231) DID: App. A5.8 (pg. 50)	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
10. TOTAL	0	1	1	1			

Solicitation No. - N° de l'invitation
W8486-184394/A
 Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.

 File No. - N° du dossier
hl668.W8486-184394

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

A4.9 CDRL – Packaging, Labels and Codes

CONTRACT DATA REQUIREMENTS LIST							
1. SYSTEM / ITEM Bunker Liner Set							
2. ITEM NUMBER CDRL BLS-ILS-205	3. TITLE OR DESCRIPTION OF DATA Packaging, Labels and Codes		4. AUTHORITY (Data Item Number) DID BLS-ILS-205				
5. CONTRACT REFERENCE SOW: Para. 4.3.3 (pg. 24) DID: App. A5.9 (pg. 52)	6. FREQUENCY ONE/R		7. REQUIRING OFFICE DND ILS Manager				
8. SUBMISSION SCHEDULE First Submission: The Contractor must provide a draft Packaging, Labels and Codes for review by Canada no later than 63 calendar days after the Kick-off Meeting. Response Time: Comments on the draft Packaging, Labels and Codes 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 Packaging, Labels and Codes, 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, Labels and Codes will be provided by Canada no later than 14 calendar days after receipt of the <u>soft copy submission</u> . Note: The Contractor must provide a subsequent submission of the Packaging, Labels and Codes if additional revisions or additions are required after a range of spares are chosen by Canada.			9. DISTRIBUTION and ADDRESSEES				
			A. ADDRESSEE	B. COPIES			
				DRAFT		FINAL	
				Hard Copy	Soft Copy	Hard Copy	Soft Copy
			DND ILSM	0	1	1	1
10. TOTAL	0	1	1	1			

A4.10

A5.0 APPENDIX: DATA ITEM DESCRIPTION

A5.1 DID Item List

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

A5.2 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.

A5.3 DID – Meeting Agenda

DATA ITEM DESCRIPTION	
1. TITLE Meeting Agenda	2. IDENTIFICATION NUMBER DID BLS-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. 22) CDRL: App. A4.3 (pg. 35)
6. PREPARATION INSTRUCTIONS	
<p>6.1. CONTENT</p> <p>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.</p> <p>6.1.2. Venue. The Meeting Agenda must address the venue as follows:</p> <ul style="list-style-type: none"> 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. <p>6.1.3. Discussion items. The Meeting Agenda must address the discussion items through the following sections:</p> <ul style="list-style-type: none"> 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. <p>6.2. SOFT COPY FORMAT</p> <p>6.2.1. The Meeting Agenda must be submitted as a PDF file type.</p> <p>6.2.2. The Meeting Agenda PDF must be submitted via email (submission size not to exceed 7MB) as follows:</p> <ul style="list-style-type: none"> 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: BLS-PM-001 – Meeting Agenda – [Rev #] – [Date of Issue] 	

A5.4 DID – Meeting Minutes

DATA ITEM DESCRIPTION	
1. TITLE Meeting Minutes	2. IDENTIFICATION NUMBER DID BLS-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. 22) CDRL: App. A4.4 (pg. 36)
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: BLS-PM-002 – Meeting Minutes – [Rev #] – [Date of Issue]	

A5.5 DID – Top Level Assembly Drawing

DATA ITEM DESCRIPTION	
1. TITLE Top Level Assembly Drawing	2. IDENTIFICATION NUMBER DID BLS-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 for Class 1 Drawings and Technical Data List</i> D-01-400-002/SF-000 <i>Specification for Levels of Engineering Drawings and Associated Lists</i>	5. CONTRACT REFERENCE SOW: Para. 3.2.2.2.1 (pg. 21) CDRL: App. A4.5 (pg. 37)
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 BLS and define the relationship between all the components of the BLS 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.	
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: BLS-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. Bunker Liner Set	
6.4.3.2. Top Level Assembly Drawing;	
6.4.3.3. BLS-ILS-201;	
6.4.3.4. The Revision number, and	
6.4.3.5. The date of issue.	

A5.6 DID – Operator Quick Reference Card

DATA ITEM DESCRIPTION	
1. TITLE Operator Quick Reference Card	2. IDENTIFICATION NUMBER DID BLS-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. 4.1.1.1.1 (pg. 22) CDRL: App. A4.6 (pg. 38)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT 6.1.1. The OQRC must contain the necessary instructions to allow a user to quickly unpack, assemble and safely use the equipment. 6.1.2. The OQRC must include a reference to there being spare Hardware Sets. 6.1.3. The OQRC must assume that the equipment's initial state is packed in its commercial packaging. 6.1.4. 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. 6.1.5. The OQRC cautionary advisory's heading must be determined based on the criteria set out in ANNEX A SOW para. 4.1.3.1. 6.2. HARD COPY FORMAT 6.2.1. The accepted OQRC hard copies must: 6.2.1.1. Be printed on paper with pages of 350-370 gsm Pico Film, matt surface and white colour, and bound white spiral coil (PLASTIKOIL®); 6.2.1.2. Contain no more than four (4) sheets; 6.2.1.3. Be produced and printed exclusively in black and white. 6.3. SOFT COPY FORMAT 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. 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. 6.3.3. Soft Copy format submission size below 7MB – The OQRC PDF and its native file may be submitted via email as follows: 6.3.3.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract. 6.3.3.2. Subject Field: BLS-ILS-202 – OQRC – [Rev #] – [Date of Issue] 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: 6.3.4.1. Bunker Liner Set 6.3.4.2. OQRC; 6.3.4.3. BLS-ILS-202; 6.3.4.4. The Revision number, and 6.3.4.5. The date of issue.	

A5.7 DID – Provisioning Parts Breakdown

DATA ITEM DESCRIPTION											
1. TITLE Provisioning Parts Breakdown	2. IDENTIFICATION NUMBER DID BLS-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 indention code as illustrated in the top-down breakdown sequence. For example, an assembly with indention code B must be followed by a detailed breakdown of all the subsequent indention codes pertaining to that assembly before the next indention 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. 4.2.1.1.1 (pg. 23) CDRL: App. A4.7 (pg. 39)										
6 PREPARATION INSTRUCTIONS 6.1 CONTENT 6.1.1 The PPB must contain data as per Table 1 below, which supersedes Figures 1 and 5 in D-01-100-214/SF-000. 6.1.2 The PPB attaching parts and fasteners, given a "Y" indention 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 overrides apply: 6.1.3.1 The <i>DMC Reference Paragraph (DMC REF)</i> is the same as specified in the SPTD for that line item. 6.1.3.2 <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.											
Table 1											
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">DATA FIELDS REQUIRED</th> <th style="text-align: center;">Field Length</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Item Number</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">Indention Code</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">Item Name</td> <td style="text-align: center;">32</td> </tr> <tr> <td style="text-align: center;">MRN</td> <td style="text-align: center;">30</td> </tr> </tbody> </table>		DATA FIELDS REQUIRED	Field Length	Item Number	6	Indention Code	1	Item Name	32	MRN	30
DATA FIELDS REQUIRED	Field Length										
Item Number	6										
Indention Code	1										
Item Name	32										
MRN	30										

NSCM/CAGE	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
Demilitarization Code (DMC)	1
DMC Reference Paragraph (DMC REF)	4
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: BLS-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 Bunker Liner Set

6.4.3.2 Provisioning Parts Breakdown;

6.4.3.3 BLS-ILS-203;

6.4.3.4 The Revision number, and

6.4.3.5 The date of issue.

A5.8 DID – Supplementary Provisioning Technical Documentation

DATA ITEM DESCRIPTION	
1. TITLE Supplementary Provisioning Technical Documentation	2. IDENTIFICATION NUMBER DID BLS-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. 4.2.1.2.1 (pg. 23) CDRL: App. A4.8 (pg. 40)
6. PREPARATION INSTRUCTIONS	
<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. (See D-01-100-214/SF-000 for definitions.)</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: BLS-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>	

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

- 6.4.3.1. Bunker Liner Set
- 6.4.3.2. SPTD;
- 6.4.3.3. BLS-ILS-204;
- 6.4.3.4. The Revision number, and
- 6.4.3.5. The date of issue.

A5.9 DID – Packaging, Labels and Codes

DATA ITEM DESCRIPTION	
1. TITLE Packaging, Labels and Codes	2. IDENTIFICATION NUMBER DID BLS-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 CF 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. 4.3.3 (pg. 24) CDRL: App. A4.9 (pg. 41)
6. PREPARATION INSTRUCTIONS 6.1. CONTENT AND GENERAL FORMAT 6.1.1. The Packaging Label design, populated with the appropriate data, must be provided as a 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. The Packaging Codes prepared from D-LM-008-011/SF-001 for the Packaging Labels for each item must be compiled into an MS Excel spreadsheet containing the following columns of data, titled as below: 6.1.2.1. Item Name – as given by the Contractor; 6.1.2.2. Manufacturer's Reference Number (MRN) – Source manufacturer's part number; 6.1.2.3. NCAGE – Source Manufacturer's NCAGE; 6.1.2.4. OEM part number – Part number assigned by Contractor; 6.1.2.5. NATO Nomenclature – Item name as assigned by NATO; 6.1.2.6. NATO Stock Number; 6.1.2.7. Packaging Code – as resolved by the Contractor; 6.1.2.8. Label Number – cross-referenced with the label drawing number from 6.1.1 above. 6.2. HARD COPY FORMAT 6.2.1. The Packaging Labels 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 gsm; 6.2.1.3. Brightness of no less than 96 ISO brightness; 6.2.2. The Packaging Codes must be printed on paper with these characteristics: 6.2.2.1. Weight of no less than 90 gsm; 6.2.2.2. Brightness of no less than 96 ISO brightness; 6.3. SOFT COPY FORMAT 6.3.1. The Packaging Labels must be provided as PDF files. 6.3.2. The Packaging Labels PDFs containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape. 6.3.3. The Packaging Codes must be provided as an MS Excel Spreadsheet file.	

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
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Buyer ID - Id de l'acheteur
hl668
CCC No./N° CCC - FMS No./N° VME

- 6.3.4. **Soft Copy format submission size below 7MB** – The Packaging, Labels and 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: BLS-ILS-205 – Packaging, Labels and Codes – [Rev #] – [Date of Issue]
- 6.3.5. **Soft Copy format submission size at or above 7MB** - The Packaging, Labels and Codes files must be submitted on CD or DVD media and be labelled as follows:
- 6.3.5.1. Bunker Liner Set
 - 6.3.5.2. Packaging, Labels and Codes
 - 6.3.5.3. BLS-ILS-205;
 - 6.3.5.4. The Revision number, and
 - 6.3.5.5. The date of issue.

ANNEX "B"

PRICING SCHEDULE

Canada is requesting firm unit prices for complete structures and also firm unit prices for the different components of the structures.

Unit price(s) in Canadian funds, Applicable Taxes excluded, DDP Delivered Duty Paid to 25 Canadian Forces Supply Depot, Montreal, QC Incoterms 2000, Customs Duties included.

Table A - Complete structures

A	B	C	D <i>Bidder to complete</i>	E <i>Bidder to complete</i>	F <i>For evaluation purposes</i>
Item No.	Description	Yearly quantity	Year 1	Year 2	Extended Cost (Taxes excluded)
			MM/DD/2019 to MM/DD/2020	MM/DD/2020 to MM/DD/2021	
1	Full Arch Structure (FAS)	10	\$	\$	=sum(D1*C1)+(E1*C1)
2	Full Arch Structure Extension	6	\$	\$	=sum(D2*C2)+(E2*C2)
3	Half Arch Structure (HAS)	10	\$	\$	=sum(D3*C3)+(E3*C3)
Total Cost – Table A					= sum (F1:F3)

The **Full Arch Structure** consists of the following components/parts:

- a. 10 x Full Arch Liners
- b. 10 x Full Arch Liners Hardware Sets
- c. 4 x Angle Irons 2.5 meters
- d. 1 x Geotextile Fabrics – FAS

The **Full Arch Structure Extensions** consists of the following components/parts:

- a. 2 x Full Arch Liners
- b. 2 x Full Arch Liners Hardware Sets
- c. 2 x Angle Irons 1.0 meters
- d. 1 x Geotextile Fabrics – FAS Extension

The **Half Arch Structure** consists of the following components/parts:

- a. 10 x Half Arch Liners
- b. 10 x Half Arch Liners Hardware Sets
- c. 2 x Angle Irons 2.5 meters
- d. 1 x Geotextile Fabrics – HAS

Table B - Components

A	B	C	D <i>Bidder to complete</i>	E <i>Bidder to complete</i>	F <i>For evaluation purposes</i>
Item No.	Description	Yearly quantity	Year 1	Year 2	Extended Cost (Taxes excluded)
			MM/DD/2019 to MM/DD/2020	MM/DD/2020 to MM/DD/2021	
4	FAS Hardware Sets	4	\$	\$	=sum(D4*C4)+(E4*C4)
5	Angle Irons 2.5 meters	4	\$	\$	=sum(D5*C5)+(E5*C5)
6	Angle Irons 1.0 meters	4	\$	\$	=sum(D6*C6)+(E6*C6)
7	Geotextile – FAS	8	\$	\$	=sum(D7*C7)+(E7*C7)
8	Geotextile - HAS	4	\$	\$	=sum(D8*C8)+(E8*C8)
Total Cost – Table B					= sum (F4:F8)

Table C – Total Evaluated Cost

A	B	C <i>For evaluation purposes</i>
1	Complete structures	= Total Cost for Table A
2	Components	= Total Cost for Table B
Aggregate Cost for evaluation purposes		=sum(C1:C2)

The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The option can be exercised more than once at any time during the period of the Contract. The optional quantities that can be optioned, is **up to** the maximum quantities listed. The option quantities are the quantities that are over and above the yearly quantity and are for the five (5) year period of the Contract.

Table D - Optional Quantities

A	B	C	D <i>Bidder to complete</i>
Item No.	Description	Maximum optional quantity (for the five (5) year period of the Contract)	Price (for the five (5) year period of the Contract)
1	Full Arch Structure (FAS)	30	\$
2	Full Arch Structure Extension	18	\$
3	Half Arch Structure (HAS)	30	\$
4	FAS Hardware Sets	12	\$
5	Angle Irons 2.5 meters	12	\$
6	Angle Irons 1.0 meters	12	\$
7	Geotextile – FAS	24	\$
8	Geotextile - HAS	12	\$

Solicitation No. - N° de l'invitation
W8486-184394/A
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File No. - N° du dossier
hl668.W8486-184394

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

Table E - Lead Time

A	B	C
Item No.	Description	<i>Bidder to complete</i> Lead Time (number of days)
1	Full Arch Structure (FAS)	
2	Full Arch Structure Extension	
3	Half Arch Structure (HAS)	
4	FAS Hardware Sets	
5	Angle Irons 2.5 meters	
6	Angle Irons 1.0 meters	
7	Geotextile – FAS	
8	Geotextile - HAS	

ANNEX "C"

MANDATORY CRITERIA

1.0 Technical Proposal Requirements

For each listed requirement, the Bidder must provide a response in the "Bidder's Response/References" column 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.

1.1 Evaluation of Key Mandatory Requirements

Serial	Requirement Reference(s)	Requirement Description	Part Number	Bidder's Response/References
M1	ANNEX A – 3.1	Project Management Program The Contractor must designate a representative with the responsibilities to coordinate, execute and manage the Contractor's project management activities for the Contract.		
M2	ANNEX A – 3.2	Project Meeting		
M3	ANNEX A – 4.1	Technical Publication Package The Contractor must prepare and deliver the following Technical Publications: Operator Quick Reference Card		

Serial	Requirement Reference(s)	Requirement Description	Part Number	Bidder's Response/References
M4	ANNEX A – 4.2	<p>Provisioning Documentation</p> <p>The Contractor must prepare and deliver the following Provisional Documentation:</p> <p>Provisioning Parts Breakdown Supplementary Provisioning Technical Documentation</p>		
M5	ANNEX A – Para A1.2.1	<p>Full Arch Liner</p> <p>The Full Arch Liner must be assembled from five (5) segments of Armtec Limited (or equivalent) curved corrugated two-flange steel tunnel liner plates.</p> <ol style="list-style-type: none"> The Full Arch Liner Armtec plates must be 4mm in thickness and 500mm in width. The Full Arch Liner Armtec plates must have a moment of inertia for stiffness of unbalanced load of no less than 1634 mm⁴/mm. The Full Arch Liner Armtec plates must be galvanized, as a protective finish to provide corrosion protection, using 100% zinc coating with a thickness no less than 610 gm/m² 		
M6	ANNEX A – Para A1.4.1	<p>Geotextile – FAS & Extension</p> <p>The Geotextile – FAS & Extension must keep its properties, permeability and prevent degradation for no less than a field service life of two (2) years when exposed to contamination from fluids (diesel, hydraulic fluids, and oils).</p> <p>The Geotextile – FAS & Extension must be flame retardant</p>		

Serial	Requirement Reference(s)	Requirement Description	Part Number	Bidder's Response/References
M7	ANNEX A – Para A2.2.1	<p>IAW NFPA 701.</p> <p>The Geotextile – FAS & Extension must have flammability performance of a maximum damage length of 250 mm IAW CAN/ULC-S109-03.</p> <p>a. The smoke residues resulting from burning of the Geotextile – FAS & Extension must be IAW the Canada Occupational Health and Safety Regulations.</p> <p>The Geotextile Fabric – FAS & Extension permittivity must be of 1.1 to 1.7 s-7 IAW ASTM 4491 water permeability test.</p> <p>Half Arch Liner</p> <p>The Half Arch Liner must be assembled from three (3) segments of Armtec Limited (or equivalent) curved corrugated two-flange steel tunnel liner plates.</p> <p>a. The Half Arch Liner Armtec plates must be 4mm in thickness and 500mm in width.</p> <p>b. The Half Arch Liner Armtec plates must have a moment of inertia for stiffness of unbalanced load of no less than 1634 mm⁴/mm.</p> <p>c. The Half Arch Liner Armtec plates must be galvanized, as a protective finish to provide corrosion protection, using 100% zinc coating with a thickness no less than 610 gm/m²</p>		
M8	ANNEX A – Para A2.4.1	<p>Geotextile – HAS</p> <p>The Geotextile – HAS must keep its properties,</p>		

Serial	Requirement Reference(s)	Requirement Description	Part Number	Bidder's Response/References
		<p>permeability and prevent degradation for no less than a field service life of two (2) years when exposed to contamination from fluids (diesel, hydraulic fluids, and oils).</p> <p>The Geotextile – HAS must be flame retardant IAW NFPA 701.</p> <p>The Geotextile – HAS must have flammability performance of a maximum damage length of 250 mm IAW CAN/ULC-S109-03.</p> <p>a. The smoke residues resulting from burning of the Geotextile – FAS & Extension must be IAW the Canada Occupational Health and Safety Regulations.</p> <p>The Geotextile Fabric – HAS permittivity must be of 1.1 to 1.7 s-7 IAW ASTM 4491 water permeability test.</p>		
M9	ANNEX A – Para A1.2.3	<p>Angle Irons 2.5 meters The Angle Irons 2.5m must be 2500 mm long and 75mm x 75mm wide with a 9.5mm thickness</p>		
M10	ANNEX A – Para A1.2.4	<p>Angle Irons 1.0 meters The Angle Irons 1.0m must be 1000 mm long and 75mm x 75mm wide with a 9.5mm thickness</p>		
M11	ANNEX A – Para A1.2.2	<p>Full Arch Liner Hardware Set The Full Arch Liner Hardware Set must use ASTM A307 carbon steel bolts of dimension M16 x 32mm.</p>		

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
h1668
File No. - N° du dossier
h1668.W8486-184394

Buyer ID - Id de l'acheteur
h1668
CCC No./N° CCC - FMS No./N° VME

Serial	Requirement Reference(s)	Requirement Description	Part Number	Bidder's Response/References
		<p>The Full Arch Liner Hardware Set must use ASTM A563, Grade A, carbon steel nuts.</p> <p>The Full Arch Liner Hardware Set must include enough bolts and nuts to assemble the complete Full Arch Liner and connect it to another Full Arch Liner, plus include 10% for spares.</p>		

Solicitation No. - N° de l'invitation
W8486-184394/A
Client Ref. No. - N° de réf. du client
W8486-184394

Amd. No. - N° de la modif.
File No. - N° du dossier
hl668.W8486-184394

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

ANNEX "D" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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

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