



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Contracting Authority / Autorité contractante
975 Boul Saint-Joseph
Gatineau
Québec
K1A 0K2

**LETTER OF INTEREST
LETTRE D'INTÉRÊT**

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Munitions Division (BK) / Division des munitions (BK)
11 Laurier St./11, rue Laurier
8C2, Place du Portage, Phase III
Gatineau
Québec
K1A 0S5

Title - Sujet Munition Scrap Flashing Capability	
Solicitation No. - N° de l'invitation W8476-196048/A	Date 2019-02-21
Client Reference No. - N° de référence du client W8476-196048	GETS Ref. No. - N° de réf. de SEAG PW-\$\$BK-383-27215
File No. - N° de dossier 383bk.W8476-196048	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-03-11	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Langdon (bk div), Darren	Buyer Id - Id de l'acheteur 383bk
Telephone No. - N° de téléphone (819) 639-3772 ()	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

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

NOTE:

This DRAFT Request for Proposal is intended to engage Industry further and allow parties to provide comments, questions and feedback on the intended Request for Proposal. Information and feedback received may be incorporated into the final Request for Proposal that is intended to be published shortly thereafter.

Canada has reserved a **maximum budget of \$3,550,000.⁰⁰ CAD** (Customs duties are excluded and Applicable Taxes are extra) for the acquisition of equipment and material for this contract (in-service support not included). Without providing any financial information, it is requested that respondents provide the likelihood of achievability based on this amount and if not, what would the reasons be (overall price, individual equipment cost, Project Management, etc.).

Respondents are asked to provide information on the likelihood of obtaining the proper materials required for completion of all qualification testing at the manufacturer's facility and if not, why.

Canada requests industry parties to provide any feedback they may have on any aspect of the DRAFT Request for Proposal, but in particular in the areas of Bid Evaluation, Technical, Basis of Payment, Project Management, Support and Resulting Contract.

This DRAFT Request for Proposal will close on the date and time identified on page 1 and any information received will be analyzed and may be worked into the formal Request for Proposal. It is intended that the formal Request for Proposal will be released for solicitation within 3 weeks of this DRAFT closing (subject to change).

Questions during this DRAFT Request for Proposal phase may not be answered and requests for extensions will not be entertained.

Respondents are requested to provide their feedback in writing (in their own format) to the Contracting Authority only on or before the closing date and time indicated.

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

Before award of a contract, the following conditions must be met:

- a) the Bidder must hold a valid organization security clearance as indicated in Part 6 - Resulting Contract Clauses;
- b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work sites must meet the security requirements as indicated in Part 6 - Resulting Contract Clauses;
- c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;

Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful Bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.

For additional information on security requirements, Bidders should refer to the Contract Security Program of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

1.1.1 Security Requirements – Foreign Bidders

The Canadian Designated Security Authority (Canadian DSA) for industrial security matters in Canada is the Industrial Security Sector (ISS), Public Works and Government Services Canada (PWGSC), administered by International Industrial Security Directorate (IISD), PWGSC. The Canadian DSA is the authority for confirming Contractor compliance with the security requirements for foreign suppliers. The following security requirements apply to the foreign recipient Contractor incorporated or authorized to do business in a jurisdiction other than Canada and delivering outside of Canada the services listed and described in the subsequent contract.

1.1.1.1 The Foreign recipient Contractor must be from a Country within the North Atlantic Treaty Organization (NATO), the European Union (EU) or from a country with which Canada has an international bilateral security instrument. The Contract Security Program (CSP) has international bilateral security instruments with the countries listed on the following PWGSC website: <http://www.tpsgc-pwgsc.gc.ca/esc-src/international-eng.html>.

1.1.1.2 The Foreign recipient Contractor must, at all times during the performance of the contract, hold an equivalence to a valid Designated Organization Screening (DOS), issued by the Canadian DSA as follows:

- a) The Foreign recipient Contractor must provide proof that they are incorporated or authorized to do business in their jurisdiction.
- b) The Foreign recipient Contractor must not begin the work, services or performance until the Canadian Designated Security Authority (DSA) is satisfied that all contract security requirement conditions have been met. Canadian DSA confirmation must be provided, in writing, to the foreign recipient Contractor in an Attestation Form, to provide confirmation of compliance and authorization for services to be performed.
- c) The Foreign recipient Contractor must identify an authorized Contract Security Officer (CSO) and an Alternate Contract Security Officer (ACSO) (if applicable) to be responsible for the overseeing of the security requirements, as defined in this contract. This individual will be appointed by the proponent foreign recipient Contractor's Chief Executive officer or Designated Key Senior Official, defined as an owner, officer, director, executive, and or partner who occupy a position which

would enable them to adversely affect the organization's policies or practices in the performance of the contract.

- d) The Foreign recipient Contractor must not permit access to Canadian restricted sites, except to its personnel subject to the following conditions:
- i. Personnel have a need-to-know for the performance of the contract;
 - ii. Personnel have been subject to a Criminal Record Check, with favourable results, from a recognized governmental agency or private sector organization in their country as well as a Background Verification, validated by the Canadian DSA;
 - iii. The Foreign recipient Contractor must ensure that personnel provide consent to share results of the Criminal Record and Background Checks with the Canadian DSA and other Canadian Government Officials, if requested; and
 - iv. The Government of Canada reserves the right to deny access to Canadian restricted sites to a foreign recipient Contractor/Subcontractor for cause.

1.1.1.3 The foreign recipient Contractor/Subcontractor requiring access to Canadian restricted sites, under this contract/subcontract, must submit a Request for Site Access to the Departmental Security Officer of the Department of National Defence Canada.

1.1.1.4 In the event that a Foreign recipient Contractor is chosen as a supplier for this contract, subsequent country-specific foreign security requirement clauses must be generated and promulgated by the Canadian DSA, and provided to the Government of Canada Contracting Authority, to ensure compliance with the security provisions, as defined by the Canadian DSA, in relation to equivalencies.

1.1.1.5 Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the Canadian DSA.

1.1.1.6 The Foreign recipient Contractor must comply with the provisions of the Security Requirements Check List attached at Annex D.

1.2 Statement of Work

The Work to be performed is detailed under Annex A of the resulting contract clauses.

1.3 Debriefings

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

1.4 Trade Agreements

This requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP); the North American Free Trade Agreement (NAFTA); the Canada FTA's with Peru, Panama, and Columbia; Canada-European Union Comprehensive Free Trade Agreement (CETA) and the Canada Free Trade Agreement (CFTA).

1.5 epost Connect service

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

1.6 Phased Bid Compliance

The Phased Bid Compliance Process (PBCP) applies to this requirement.

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: 180 days

2.2 Submission of Bids

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

2.2.1 Technical publications: Manuals

SACC Manual B4057T 2017-11-28, Technical publications: Manuals

2.2.2 Recommended Spare Parts List

SACC Manual B4052T 2014-06-26, Recommended Spare Parts List

2.3 Enquiries - Bid Solicitation

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

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

2.4 Applicable Laws

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

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

2.5 Improvement of Requirement during Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.6 Substantial Information

Bidders must demonstrate their compliance with the following sections of the bid solicitation by providing substantial information describing completely and in detail how the requirement is met or addressed. Bidders must provide with their technical bid, a document indicating clearly where the substantial information for each of the sections identified below can be found.

- a) Annex A, Appendix 1 – Specification

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 (four (4) hard copies and two (2) soft copies on CD or DVD)
Section II: Financial Bid (three (3) hard copies and two (2) soft copies on CD or DVD)
Section III: Certifications (one (1) hard copy and one (1) soft copy on CD or DVD)
Section IV: Additional Information (three (3) hard copies and two (2) soft copies on CD or DVD)

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

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

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

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

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

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

Section I: Technical Bid

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

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Pricing

Bidders must submit their financial bid as follows:

- a. Bids must be Firm prices submitted in Canadian dollars.
- b. Pricing must only appear in the financial bid and must not appear in any other part of the Bidder's proposal

3.1.3 Exchange Rate Fluctuation

SACC Manual Clause C3011T 2013-11-06, Exchange Rate Fluctuation

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

All items identified in Annex "C" – Bid Evaluation must be proven to be compliant for a bid to be determined successful.

4.1.2 Financial Evaluation

SACC Manual Clause A0220T 2014-06-26, Evaluation of Price - Bid

4.1.3 Financial Evaluation – In Service Support

The hourly rates provided in section 2.3 (items 009 and 010) will not be evaluated as part of the Bid Evaluation process and not included in the total price.

4.2 Phased Bid Compliance

Canada will use the Phased Bid Compliance Process (PBCP) described below.

4.2.1 Phased Bid Compliance Process

4.2.1.1 (2018-07-19) General

- (a) Canada is conducting the PBCP described below for this requirement.
- (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada.

THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY

REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

- (a) Canada may, in its discretion, request and accept at any time from a Bidder and consider as part of the Bid, any information to correct errors or deficiencies in the Bid that are clerical or administrative, such as, without limitation, failure to sign the Bid or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Bidder has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. The Bidder will have the time period specified in writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Bid being declared non-responsive.
- (b) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2018-05-22) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right, or in the circumstances described in subsection (c).
- (c) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.2.1.2 (2018-03-13) Phase I: Financial Bid

- (a) After the closing date and time of this bid solicitation, Canada will examine the Bid to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements.
- (b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- (c) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing all of the information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.
- (d) For Bids other than those described in c), Canada will send a written notice to the Bidder ("Notice") identifying where the Financial Bid is missing information. A Bidder, whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.
- (e) The Bidders who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses

received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.

- (f) In its response to the Notice, the Bidder will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Bidder and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- (g) Any other changes to the Financial Bid submitted by the Bidder will be considered to be new information and will be disregarded. There will be no change permitted to any other Section of the Bidder's Bid. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, only that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.
- (h) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Bidder in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (i) Only Bids found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.2.1.3 (2018-03-13) Phase II: Technical Bid

- (a) Canada's review at Phase II will be limited to a review of the Technical Bid to identify any instances where the Bidder has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meets any standard or is responsive to all solicitation requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the PBCP. Mandatory technical criteria that are not identified in the solicitation as being subject to the PBCP, will not be evaluated until Phase III.
- (b) Canada will send a written notice to the Bidder (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Bid has failed to meet. A Bidder whose Bid has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Bid has been found responsive to the requirements reviewed at Phase II. Such Bidder shall not be entitled to submit any response to the CAR.
- (c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.
- (d) The Bidder's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Bidder which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Bid, the Bidder

shall identify such additional changes, provided that its response must not include any change to the Financial Bid.

- (e) The Bidder's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Bidder must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory Criterion. It is not up to Canada to revise the Bidder's Bid, and failure of the Bidder to do so in accordance with this subparagraph is at the Bidder's own risk. All submitted information must comply with the requirements of this solicitation.
- (f) Any changes to the Bid submitted by the Bidder other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, only that part of the original Bid as is permitted in this Section.
- (g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Bid, but will be considered by Canada in the evaluation of the Bid at Phase II only for the purpose of determining whether the Bid meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Bid would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Bidder in response to the CAR. If so, the Bid will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Bidder shall bind the Bidder as part of its Bid, but the Bidder's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Bid
- (h) Canada will determine whether the Bid is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Bidder in accordance with this Section. If the Bid is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (i) Only Bids found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.2.1.4 (2018-03-13) Phase III: Final Evaluation of the Bid

- (a) In Phase III, Canada will complete the evaluation of all Bids found responsive to the requirements reviewed at Phase II. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) A Bid is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.2.2 (2017-07-31) Technical Evaluation

- (a) It is important that contracting authorities ensure mandatory criteria represent truly essential requirements. The number of mandatory criteria should be minimized to those that are

essential to meet the operational requirements in order to increase the probability of receiving responsive bids.

- (b) If the evaluation criteria are too voluminous, include as an annex attached to the bid solicitation. Consult section 4.35.1 of the Supply Manual.

4.2.2.1 (2017-07-31) Mandatory Technical Criteria

The Phased Bid Compliance Process will apply only to mandatory technical criteria identified by the superscript (^{PB}). Mandatory technical criteria not identified by the superscript (^{PB}) will not be subject to the Phased Bid Compliance Process.

4.3 Basis of Selection

SACC Manual Clause M0069T 2007-05-25, Basis of Selection

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1^{PB} 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/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

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 Equipment Safety Certification

Equipment components must be certified to an appropriate commercial or government standard by a nationally recognized test laboratory, e.g., Underwriters Laboratories (UL), Canadian Standards Association (CSA), TUV Rhineland, or CE marking.

Electrical equipment which will be connected to a land-based power source must meet the requirements for approved equipment in accordance with the provisions of the Canadian Electrical Code Part 1, either by field evaluation or equipment certification by an organization accredited by the Standards Council of Canada. If there are deficiencies identified following the local safety field inspection, the Contractor must remediate all deficiencies under the direction of the Technical Authority (TA).

5.2.4 Fuel and Burner Safety

For fuel and burner safety relating to natural gas (or propane), the equipment must meet the requirements for approved equipment in accordance with the provisions of CSA B149.3, either by field evaluation or equipment certification by an organization accredited by the Standards Council of Canada. If there are deficiencies identified following the local safety field inspection, the Contractor must remediate all deficiencies under the direction of the Technical Authority (TA).

5.2.5 Combustion Engines Pollution and Emission Standards

All internal combustion engines must meet the guidelines and criteria of the Canadian Environmental Protection Act, 1999 (S.C. 1999, c. 33), Part 7 (Controlling Pollution and Managing Wastes), Division 5 (Vehicle, Engine and Equipment Emissions).

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 SECURITY REQUIREMENT FOR CANADIAN SUPPLIER:

The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.

Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.

The Contractor/Offeror must comply with the provisions of the:

- (a) Security Requirements Check List and security guide (if applicable), attached at Annex D;
- (b) Industrial Security Manual (Latest Edition).

6.1.2 SECURITY REQUIREMENTS FOR FOREIGN SUPPLIERS

The Canadian Designated Security Authority (Canadian DSA) for industrial security matters in Canada is the Industrial Security Sector (ISS), Public Works and Government Services Canada (PWGSC), administered by International Industrial Security Directorate (IISD), PWGSC. The Canadian DSA is the authority for confirming Contractor compliance with the security requirements for foreign suppliers. The following security requirements apply to the foreign recipient Contractor incorporated or authorized to do business in a jurisdiction other than Canada and delivering outside of Canada the services listed and described in the subsequent contract.

6.1.2.1 The Foreign recipient Contractor must be from a Country within the North Atlantic Treaty Organization (NATO), the European Union (EU) or from a country with which Canada has an international bilateral security instrument. The Contract Security Program (CSP) has international bilateral security instruments with the countries listed on the following PWGSC website: <http://www.tpsgc-pwgsc.gc.ca/esc-src/international-eng.html>.

6.1.2.2 The Foreign recipient Contractor must, at all times during the performance of the contract, hold an equivalence to a valid Designated Organization Screening (DOS), issued by the Canadian DSA as follows:

- a) The Foreign recipient Contractor must provide proof that they are incorporated or authorized to do business in their jurisdiction.
- b) The Foreign recipient Contractor must not begin the work, services or performance until the Canadian Designated Security Authority (DSA) is satisfied that all contract security requirement conditions have been met. Canadian DSA confirmation must be provided, in writing, to the foreign recipient Contractor in an Attestation Form, to provide confirmation of compliance and authorization for services to be performed.
- c) The Foreign recipient Contractor must identify an authorized Contract Security Officer (CSO) and an Alternate Contract Security Officer (ACSO) (if applicable) to be responsible for the overseeing of the security requirements, as defined in this contract. This individual will be appointed by the proponent foreign recipient Contractor's Chief Executive officer or Designated Key Senior Official, defined as an owner, officer, director, executive, and or partner who occupy a position which

would enable them to adversely affect the organization's policies or practices in the performance of the contract.

- d) The Foreign recipient Contractor must not permit access to Canadian restricted sites, except to its personnel subject to the following conditions:
- v. Personnel have a need-to-know for the performance of the contract;
 - vi. Personnel have been subject to a Criminal Record Check, with favourable results, from a recognized governmental agency or private sector organization in their country as well as a Background Verification, validated by the Canadian DSA;
 - vii. The Foreign recipient Contractor must ensure that personnel provide consent to share results of the Criminal Record and Background Checks with the Canadian DSA and other Canadian Government Officials, if requested; and
 - viii. The Government of Canada reserves the right to deny access to Canadian restricted sites to a foreign recipient Contractor/Subcontractor for cause.

6.1.2.3 The foreign recipient Contractor/Subcontractor requiring access to Canadian restricted sites, under this contract/subcontract, must submit a Request for Site Access to the Departmental Security Officer of the Department of National Defence Canada.

6.1.2.4 In the event that a Foreign recipient Contractor is chosen as a supplier for this contract, subsequent country-specific foreign security requirement clauses must be generated and promulgated by the Canadian DSA, and provided to the Government of Canada Contracting Authority, to ensure compliance with the security provisions, as defined by the Canadian DSA, in relation to equivalencies.

6.1.2.5 Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the Canadian DSA.

6.1.2.6 The Foreign recipient Contractor must comply with the provisions of the Security Requirements Check List attached at Annex D.

6.2 Statement of Work

The Contractor must perform the Work 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.

6.3.2 Supplemental General Conditions

4006 2010-08-16, Contractor to Own Intellectual Property Rights in Foreground Information apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to **31 March 2024** inclusive

6.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least thirty (30) calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

6.4.2 Delivery Date

All the deliverables must be received on or before the dates located in Annex "B".

6.4.5 Delivery Points

Unless otherwise detailed herein, all deliverables must be delivered to:

CFB Winnipeg Det Dundurn
Major Equipment Section
Dundurn Detachment
Camp Dundurn
Dundurn, Saskatchewan
Canada, S0K 1K0

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Darren Langdon
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Electronics, Munitions and Tactical Systems Procurement Directorate
975 Boul Saint Joseph
Gatineau, QC
K1A 0K2

Telephone: 819-939-0951
E-mail address: darren.langdon@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

The Procurement Authority for the Contract is:
(To be completed prior to Contract award)

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

The Technical Authority for the Contract is:
(To be completed prior to Contract award)

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

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

(To be completed prior to Contract award)

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

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm prices as specified in Annex "B". Customs duties are excluded 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 Basis of Payment: Individual task authorizations

The Contractor will be paid for the Work specified in the authorized task authorization, in accordance with the Basis of payment at Annex "B".

Canada's liability to the Contractor under the authorized task authorization must not exceed the ceiling price specified in the authorized task authorization. Custom duties are excluded and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized task authorization resulting from any design changes, modifications or interpretations of the Work will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.3 Limitation of Expenditure

Canada's total liability to the Contractor under the Contract must not exceed \$ _____ (to be completed before Contract award). Customs duties are excluded and Applicable Taxes are extra.

No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum (whichever comes first):

- a) when it is 75% committed, or
- b) four months before the contract expiry date, or
- c) as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.6.4 Multiple Payments

Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:

- a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all such documents have been verified by Canada;
- c) the Work delivered has been accepted by Canada.

6.6.5 Milestone Payments - Subject to holdback (Task Authorizations)

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract, up to 85 percent of the amount claimed and approved by Canada if:

- a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) the total amount for all milestone payments paid by Canada does not exceed 85 percent of the total amount to be paid under the Contract;
- c) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- d) all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all Work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted."

6.6.6 SACC Manual Clauses

(To be finalized before contract award)

SACC Manual Clause C0100C 2010-01-11, Discretionary Audit - Commercial Goods and/or Services
SACC Manual Clause C2000C 2007-11-30, Taxes - Foreign-based Contractor
SACC Manual Clause C2605C 2008-05-12, Canadian Customs Duties and Sales Tax - Foreign-based Contractor
SACC Manual Clause C2608C 2015-02-25, Canadian Customs Documentation
SACC Manual Clause C2610C 2007-11-30, Customs Duties - Department of National Defence - Importer

6.6.7 Electronic Payment of Invoices – Contract

(To be finalized before contract award)

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

- a) Visa Acquisition Card;
- b) MasterCard Acquisition Card;
- c) Direct Deposit (Domestic and International);
- d) Electronic Data Interchange (EDI);
- e) Wire Transfer (International Only);
- f) Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions - Deliverables

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:

- a) a copy of the release document and any other documents as specified in the Contract;
- b) a copy of the monthly progress report.

Invoices must be distributed as follows:

- a) One (1) copy must be forwarded to the Procurement Authority for certification and payment.
- b) One (1) copy must be forwarded to the Contracting Authority identified in Article 6.5.1 titled "Contracting Authority".

6.8 Invoicing Instructions – Task Authorizations

The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- a) all information required on form PWGSC-TPSGC 1111;
- b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- c) a list of all expenses;
- d) expenditures plus pro-rated profit or fee;
- e) the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- a) a copy of time sheets to support the time claimed;
- b) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;

Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.

The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Procurement Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Procurement Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

The Contractor must not submit claims until all work identified in the claim is completed.

6.9 Certifications and Additional Information

6.9.1 Compliance

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

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

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

6.10 Applicable Laws

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

6.11 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 supplemental general conditions 4006 2010-08-16, Contractor to Own Intellectual Property Rights in Foreground Information;
- c) the general conditions 2010A 2018-06-21, General Conditions - Goods (Medium Complexity);
- d) Annex A, Statement of Work;
- e) Annex B, Basis of Payment
- f) Annex D, Security Requirements Check List;
- g) the Contractor's bid dated _____

6.12 Defence Contract

SACC Manual clause A9006C 2012-07-16, Defence Contract

6.13 SACC Manual Clauses

SACC Manual clause B4061C 2008-05-12, North Atlantic Treaty Organization Codification - Data Requirements is incorporated by reference and form part of this contract.

6.14 Technical publications: Manuals

The Contractor must provide and clearly label all technical publications required for description, operation, installation, maintenance and repair of the deliverable end items as follows:

6.14.1 Bilingual publications

Option 1: Newly written manuals

The Contractor must provide the following publications in both English and French, in one of the following formats: side-by side, separate issues, separate joined, facing pages, or over and under. The selected format must be in full compliance with the latest issue of C-01-100-100/AG-006, Specification Writing, Format and Production of Technical Publications. The Contractor must deliver the newly written manuals to the Technical Authority.

Option 2: Existing manuals

The Contractor must provide the following publications as existing commercial or foreign government off-the-shelf manuals, in both English and French, in side-by-side format, in full compliance with the latest issue of C-01-100-100/AG-005, Specification Acceptance of Commercial and Foreign Government Publications as Adopted Publications. The Contractor must deliver the existing manuals to the Technical Authority.

Option 3: Alternate format

The Contractor must provide the following publications in the format approved in writing by the Technical Authority, in both English and French. The format must be in full compliance with the latest issue of C-01-100-100/AG-005, Specification Acceptance of Commercial and Foreign Government Publications as Adopted Publications. The Contractor must deliver the publications in the approved alternate format to the Technical Authority on or before.

6.14.2 Unilingual publications

Option 1: Newly written manuals

The Contractor must provide the following publications in full compliance with the latest issue of C-01-100-100/AG-006, Specification Writing, Format and Production of Technical Publications. The Contractor must deliver the newly written manuals to the Technical Authority.

Option 2: Existing manuals

The Contractor must provide the following publications as existing commercial or foreign government off-the-shelf manuals, in full compliance with the latest issue of C-01-100-100/AG-005, Specification Acceptance of Commercial and Foreign Government Publications as Adopted Publications. The Contractor must deliver the existing manuals to the Technical Authority.

6.14.3 Right to translate and reproduce

The Contractor gives Canada the right to translate and reproduce, for government purposes, any or part of any publication provided under the Contract as existing unilingual commercial manuals.

6.15 Recommended Spare Parts List

The Contractor must, within fifteen (15) working days after contract award, provide to the Technical Authority a Recommended Spare Parts List (RSPL) prepared in accordance with the current issue of Canadian Forces Specification D-01-100-214/SF-000. The RSPL must contain the Contractor's recommendation for spares required to maintain the equipment for a 24-month period, and must provide the basis for the spares selection to be made by Department of National Defence. Upon request from the Contractor, the specification will be provided by the Contracting Authority.

Supplementary Provisioning Technical Documentation (SPTD), as prepared by the actual manufacturer of the item, is required for the codification and cataloguing of all items listed in the RSPL. The SPTD called up in the above specification must accompany the RSPL as detailed in the specification. Specific details of the data elements required must be listed on a Provisioning Documentation Selection Sheet, prepared in accordance with the above specification, and be submitted in electronic ASCII text format.

Questions regarding the preparation, format or contents of the above provisioning documentation must be directed to the Procurement Authority.

6.16 Quality

6.16.1 ISO 9001:2008 - Quality Management Systems

SACC Manual clause [D5540C 2010-08-16](#), ISO 9001:2008 Quality Management Systems - Requirements (Quality Assurance Code Q) is incorporated by reference and form part of this contract.

6.16.2 Release Documents

(To be completed prior to Contract award)

SACC Manual clause D5606C 2012-07-16, Release Documents - Canadian-based Contractor, is incorporated by reference and form part of this contract.

OR

SACC Manual clause D5605C 2010-01-11, Release Documents - United States-based Con, is incorporated by reference and form part of this contract.

OR

SACC Manual clause D5604C 2008-12-12, Release Documents - Foreign-based Contractor, is incorporated by reference and form part of this contract.

6.16.3 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, Ontario, K1A OK2
Attention: DLP 5-3-6

- a) One (1) copy to the Quality Assurance Representative;
- b) One (1) copy to the Contractor; and
- c) 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, Ontario, K1A OK2

E-mail: ContractAdmin.DQA@forces.gc.ca.

6.17 Packaging

6.17.1 Packaging Requirement

The Contractor must prepare item(s) indicated in Annex "B" 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(s) indicated in Annex "B" in quantities of up to a maximum of 100 by package (if applicable).

6.17.2 Palletization

SACC Manual clause D6010C 2007-11-30, Palletization is incorporated by reference and form part of this contract.

6.17.3 Marking

SACC Manual clause D2000C 2007-11-30, Marking is incorporated by reference and form part of this contract.

6.17.4 Wood Packaging Materials

SACC Manual clause D2025C 2017-08-17, Wood packaging materials is incorporated by reference and form part of this contract.

6.18 Shipping Instructions

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

- a) FOB Destination Canadian Forces Ammunition Depot Dundurn including all delivery charges and customs duties and Applicable Taxes (Items 002 through 010).

6.19 Excess Goods

The quantity of goods to be delivered by the Contractor is specified in the Contract. The Contractor remains liable for any shipment in excess of that quantity whether the excess quantity is shipped voluntarily or as a result of an error by the Contractor. Canada will not make any payment to the Contractor for goods shipped in excess of the specified quantity. Canada will not return the said goods to the Contractor unless the Contractor agrees to pay for all the costs related to the return, including but not limited to administrative, shipping and handling costs. Canada will have the right to deduct such costs from any invoice submitted by the Contractor.

6.20 Canadian Forces Site Regulations

SACC Manual clause A9062C 2011-05-16, Canadian Forces Site Regulations is incorporated by reference and form part of this contract.

6.21 Task Authorization Process

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

Task Authorization Process:

1. The Procurement Authority will provide the Contractor with a description of the task using the DND 626, Task Authorization Form specified in Annex "E".

2. The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis and methods of payment as specified in the Contract.
3. The Contractor must provide the Procurement Authority, within seven (7) calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.
4. The Contractor must not commence work until a TA authorized by the Procurement or Contracting Authority (as applicable) has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

6.21.1 Task Authorization Limit

The Procurement Authority may authorize individual task authorizations up to a limit of \$25,000, Applicable Taxes included, inclusive of any revisions.

Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance.

6.21.2 Task Authorization - Department of National Defence

The administration of the Task Authorization process will be carried out by DLP 5-3-6. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

ANNEX "A" - STATEMENT OF WORK



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

ACRONYMS

A&E	Ammunition and Explosives
AS	Ammunition Salvage
°C	Degrees Celsius
CA	Contracting Authority
CAF	Canadian Armed Forces
Canada	Government of Canada
CDR	Critical Design Review
CDRL	Contract Data Requirement List
CEMS	Continuous Emissions Monitoring System
CFAD	Canadian Forces Ammunition Depot
CGR	Controlled Goods Regulations
CMVSS	Canada Motor Vehicle Safety Standards
COHSR	Canada Occupational Health and Safety Regulations
CSA	Canadian Standards Association
DAEME	Director Ammunition and Explosives Management and Engineering
DID	Data Item Description
DND	Department of National Defence
EEA	Equipment Environmental Assessment
EMS	Environmental Management System
°F	Degrees Fahrenheit
FEA	Finite Element Analysis
Hz	Hertz
IAW	In Accordance With
ILS	Integrated Logistics Support
IP	Intellectual Property
MACA	Months After Contract Award
mm	Millimeter
MPS	Master Project Schedule
MS	Munition Scrap
(M)SDS	(Material) Safety Data Sheet
NATO	North Atlantic Treaty Organization
NEMA	National Electrical Manufacturers Association
NEW	Net Explosive Weight
NFPA	National Fire Protection Association
NPRI	National Pollutant Release Inventory
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
PA	Procurement Authority
PAS	Pollution Abatement System
PHST	Packaging, Handling, Storage & Transportation
R&O	Repair and Overhaul
RS	Requirements Specification
RSPL	Recommended Spare Parts List
RVM	Requirements Verification Matrix
SAA	Small Arms Ammunition
SoC	Statement of Compliance
SOW	Statement of Work
SPTD	Supplementary Provisioning Technical Documentation
TA	Technical Authority
TEMP	Test and Evaluation Master Plan
TPM	Total Particulate Matter
UL	Underwriters Laboratories
WBS	Work Breakdown Structure

GLOSSARY

Ammunition Salvage – any non-explosive ammunition accessory or component, including fired cartridge cases and links, recovered from the firing point or during explosives workshop operations.

Energetic Residue – explosive materials which may remain in or on an item of ammunition that has released its military potential by firing or other stimulus. Residues are most often in solid or powder form, and still require further approved thermal or chemical treatment in order to render them harmless for release to the public.

Flashing – the final treatment process that is normally applied to Munition Scrap items. The process involves the application of heat at a predetermined temperature for a duration that is known to destroy any remaining energetic residue. Items which have been flashed are considered to be safe for mutilation and material type segregation prior to final disposal as scrap material.

Munition Scrap (MS) – all recoverable solid by-products, including empty projectile remnants, fragments and pieces of fuse, resulting from the normal functioning of ammunition and explosives, other than those generated at the firing point.

Thermal Treatment – the controlled process of applying heat at a predetermined temperature for a specified duration to A&E items, causing them to function (detonate or deflagrate) and consuming the energetic material contained within, or to de-confine and liquefy the energetic material so that it may be collected in bulk and destroyed outside its container. Thermal treatment may be accomplished by the use of equipment or a method that has been specifically designed to withstand controlled explosive events. Items that have been thermally treated may undergo further processing in a flashing furnace to remove the energetic residue remaining after thermal treatment.

1. SCOPE

1.1. Purpose

1.1.1. The purpose of this Statement of Work (SOW) is to describe the tasks and deliverables required in order to, deliver, test and set-to-work a Munition Scrap Flashing Capability at Canadian Forces Ammunition Depot (CFAD) Dundurn. This capability will enable the safe demilitarization of the Munition Scrap and Ammunition Salvage contaminated with energetic residue to enable their safe release to industry for recycling.

1.2. Background

1.2.1. The safe demilitarization of Munition Scrap and Ammunition Salvage is an on-going Department of National Defence (DND) requirement. DND currently has no safe disposal method for munition scrap and ammunition salvage and this has led to the accumulation of a significant backlog, which is being augmented annually. A complete, environmentally compliant, Munition Scrap Flashing Capability is being sought to address this capability deficiency within DND.

2. APPLICABLE DOCUMENTS

2.1. Applicability

2.1.1. The following documents support this SOW and must be considered as supplemental information, if not specifically identified in the text. In the event of perceived conflict between the SOW and the documents referenced below, or the Annexes, the content of the SOW will take precedence. If required by the Contractor, these documents will be provided by the Contracting Authority (CA).

2.2. DND Documents

2.2.1. The following DND documents form part of this SOW to the extent specified herein and in its Appendices:

- a. D-01-100-203/SF-000, Specification for Preparation of Operating Instructions.
- b. D-01-100-204/SF-000, Specification for Preparation of Preventive Maintenance.
- c. D-01-100-205/SF-000, Specification for Preparation of Corrective Maintenance Instruction.
- d. D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment.
- e. C-01-100-100/AG-005, Acceptance of Commercial and Foreign Government Publications as Adopted Publications.
- f. C-01-100-100/AG-006, Wring, Format, and Production of Technical Publications.

2.3. Public Documents

2.3.1. The following publically available documents form part of this SOW and in its Appendices:

- a. Canadian Environmental Protection Act, 1999 (CEPA); targeted in Schedule 1, Toxic Substance List under CEPA or subject to the reporting requirements under the National Pollutant Release Inventory (NPRI).
- b. Canadian Environmental Protection Act, 1999 (S.C. 1999, c. 33), Part 7 (Controlling Pollution and Managing Wastes), Division 5 (Vehicle, Engine and Equipment Emissions).
- c. ISO 14001:2015 Environmental management systems - Requirements.
- d. ISO 9001:2015, Quality Management Systems - Requirements.
- e. Canadian Electrical Code (Part 1), 2015 (23rd Edition) - Electrical Safety Requirements.
- f. CSA-B149.1-15 - Natural gas and propane installation code.

- g. CSA-B149.2-15 - Propane storage & handling code.
- h. CSA-B149.3-15 - Code for the field approval of fuel-related components.
- i. CAN/CSA-E60825-1:15 - Safety of Laser Products.
- j. CAN/CSA-C22.2 NO. 286-17 Industrial Control Panels and Assemblies.
- k. Canada Labour Code - Health and Safety.
- l. Canada Occupational Health and Safety Regulations (COHSR).
- m. ASTM C1055, Standard Guide for Heated System Surface Conditions that Produce Contact Burn Injuries.
- n. Controlled Goods Regulations (CGR).

3. REQUIREMENTS GENERAL

3.1. Services

3.1.1. The Contractor must deliver the following services:

- a. Project Management;
- b. Systems Engineering;
- c. Integrated Logistics Support; and
- d. Quality Assurance;

3.2. Documentation Deliverables

3.2.1. The Contractor must develop and deliver the documentation deliverables below, as per the applicable CDRL (Appendix 2) and DIDs (Appendix 3).

3.2.2. The Contractor must deliver all copies of the DND data deliverables to the following address:

CFAD Dundurn Munition Scrap Flashing Capability Project
DAEME 4
National Defence Headquarters
MGen G.R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario, Canada K1A 0K2

3.2.3. Electronic copies. The Contractor must prepare a searchable PDF of each data deliverable and an unprotected copy of the corresponding source document in formats compatible with the Microsoft Office Suite products, and deliver them together via electronic mail or CD-R media, unless otherwise specified explicitly in a CDRL or DID.

3.3. Materiel Deliverables

3.3.1. The Contractor(s) must deliver, install, set-to-work and test quantity one Munition Scrap Flashing Capability equipment suite that meets the requirements specified in Requirements Specification (Appendix 1), by providing:

- a. Quantity one Munition Scrap Flashing Capability;
- b. Quantity one Pollution Abatement System (PAS); and
- c. Spare parts kits.

3.4. Schedule

3.4.1. The Contractor must complete Acceptance Testing of the Flashing Capability equipment at the Contractor's facility no later than 9 months after contract award (MACA).

3.4.2. The Contractor must complete the Installation Testing of the Flashing Capability equipment on site in CFAD Dundurn no later than 12 months after contract award (MACA).

4. PROJECT MANAGEMENT

4.1. Project Scheduling

4.1.1. The Contractor must deliver a draft Master Project Schedule (MPS) and a Work Breakdown Structure (WBS), as per CDRL PM-002 and associated DID PM-002.

4.2. Project Meetings

4.2.1. The Contractor must hold a Kick-off Meeting / Preliminary Design Review (PDR) at their manufacturing facility, no later than 50 working days after contract award to review the requirements expressed in the Contract, SOW, Requirements Specification (RS), and the design specifications of the proposed equipment.

4.2.2. The Contractor must schedule, plan, and organize a Critical Design Review (CDR), no later than 80 working days after contract award, which will be the forum where the Contractor presents its final equipment design and performance specifications to Canada. Following the meeting, the final design specifications will be approved for manufacturing, and become the Canadian Baseline.

4.2.3. The Contractor must provide updates on the progress of the equipment manufacturing and testing activities as requested by Canada throughout the life of the contract.

4.3. Environmental / Safety Management

4.3.1. The Contractor must implement and maintain an Environmental Management System, which is consistent with the principles presented in ISO 14001 or have in place an equivalent set of procedures and control measures to achieve environmental compliance as assessed by the TA.

4.3.2. The Contractor must ensure that all contract deliverables are reviewed for environmental, and occupational health and safety risks for operation of the equipment, and must provide warnings and instructions to mitigate those risks.

4.3.3. The Contractor must allow DND inspection and monitoring of environmental aspects throughout the life of the contract.

4.3.4. The Contractor must prepare and submit an Equipment Environmental Assessment (EEA) for Canada's approval as per CDRL PM-007 and associated DID PM-007.

4.3.5. Asbestos and asbestos containing products must not be incorporated in any part of the equipment as per the Prohibition of Asbestos and Products containing Asbestos Regulations (PAPCAR): SOR/2018-196.

5. SYSTEM ENGINEERING

5.1. System Specification

5.1.1. The Contractor must provide a specification for the technical solution for the equipment in response to Appendix 1 to this SOW as per Type A – System Specification of CDRL SE-101 and its associated DID SE-101.

- 5.1.2. The System Specification must define the system architecture, the physical and functional performance at the system and sub-system levels and all functional and physical interfaces between the system elements and external interfaces.
- 5.1.3. The System Specification submitted will be reviewed at the Preliminary Design Review/Kick-Off Meeting. The Contractor must then revise with the System Specification to incorporate comments from Canada.
- 5.1.4. The revised System Specifications will be reviewed by Canada at the Critical Design Review (CDR). Concurrence by Canada will signal the transition from equipment design to manufacture.
- 5.1.5. Upon written approval from the CA, the equipment will transition from system/equipment design to system/equipment manufacture.

5.2. Engineering Change Proposal

- 5.2.1. To request authorization to depart from a particular performance or design requirement of the approved RS or reference document, the Contractor must request an engineering change.
- 5.2.2. The Contractor must not change nor modify any item, component or product without an engineering change approved by the TA and CA, after the Contractor has incorporated all changes required by the CDR.

5.3. Tests and Evaluations

- 5.3.1. Acceptance Testing - Acceptance testing will be composed of Qualification Tests at the Contractor's facility and Installation Tests at the final installation site.
- 5.3.2. Qualification Tests - Qualification Tests must be held at the Contractor's facility and must demonstrate that equipment conforms to the performance requirement specified in the Requirements Specification (RS).
- 5.3.3. Installation Tests - Installation Tests that must be held at the final installation site in CFAD Dundurn and must demonstrate that the equipment functions as designed, after final installation. Installation testing may or may not duplicate some aspects of qualification testing.
- 5.3.4. The TA, in consultation with the CA, has approval authority over test and evaluation methods, procedures and results required for acceptance testing.

5.4. Test and Evaluation Master Plan (TEMP)

- 5.4.1. The Contractor must develop a Test and Evaluation Master Plan (TEMP), as per CDRL SE-105 and its associated DID SE-105 to demonstrate all elements of the requirements verification matrix (Appendix 1) are demonstrated.
- 5.4.2. The Contractor must schedule and execute acceptance testing following the approved Test and Evaluation Master Plan (TEMP).

5.5. Final Test Report

- 5.5.1. Following Installation testing, the Contractor must deliver a Final Test Report following CDRL SE-108 and its associated DID SE-108 for all tests and evaluations conducted as per approved Test and Evaluation Master Plan (TEMP) to demonstrate the equipment meets all requirements specifications.

- 5.5.2. The TA may accept the results, conditionally accept the results, or reject the results. To be accepted, the test must have been conducted following the agreed methodology and the reported results must meet the Pass Criteria stated in the approved TEMP and Test Procedures traceable to the RS Verification Matrix. If conditionally accepted, the result can be made to meet the Pass Criteria if specified actions are taken. If rejected, the test must be repeated after the specified reason(s) for failure have been remedied.
- 5.5.3. Provided that the equipment being tested is directly comparable and that the specifics of the verification are the same, then the Contractor may advance examples of previous verification activities as evidence of compliance with the requirements of this SOW. Canada reserves the right to be the final authority on the acceptability of previous verification activities as evidence of equipment compliance with the Contract requirements. Note that requirements that are to be validated by demonstration or inspection must still be verified in full by the MS flashing certification capability test program.
- 5.5.4. Representatives from Canada must have access to witness and receive all activities and documentation related to all tests and evaluations, including tests and evaluations conducted at independent facilities. The Contractor must formally notify the CA and TA at least 50 working days in advance of each test or group of tests. The CA will then provide the Contractor with the list of representatives that will be attending and witnessing specific tests or evaluations.

5.6. Final Acceptance

- 5.6.1. For final acceptance, the Contractor must:
- a) resolve all identified deficiencies from Qualification and Installation Testing;
 - b) complete TA approved Operator and Maintenance Manuals;
 - c) demonstrate the completeness of Operator and Maintenance training through training scenarios; and
 - d) submit the Final Test Report demonstrating all requirements from the RS (Appendix 1) for each equipment have been tested and met.

6. INTEGRATED LOGISTICS SUPPORT

6.1. Maintenance Plan

- 6.1.1. The Contractor must complete a Maintenance Analysis based on the Maintenance Concept provided at Appendix 4 to Annex A and determine the maintenance level for all Preventive and Corrective Maintenance tasks. This analysis must be used to identify the first level maintenance tasks to be completed by Canada, identify spare parts provisioning requirements, identify special tools and test equipment requirements, and finalize the technical publications.

6.2. Publications

- 6.2.1. The Contractor must deliver a Maintenance Manual (MM) including a Maintenance Plan (MP) based on the Maintenance Analysis and submit it for approval as per CDRL ILS-211.
- 6.2.2. The Contractor must deliver an Operator Manual or an integrated manual that addresses all the equipment in a single document as per CDRL ILS-213.
- 6.2.3. The Contractor must update the affected publications (Maintenance/Operator manuals, Technical Data Package) when necessary, until the TA has accepted the results of Acceptance Testing, to ensure all engineering changes are reflected.

6.3. Training

- 6.3.1. During the installation, set-to-work and installation testing of the equipment , the Contractor must deliver at CFAD Dundurn, to small groups (less than 10) of personnel selected by Canada, 1 serial of each of:
- a. Operator training; and
 - b. Maintenance training.
- 6.3.2. The Contractor must provide training material as per CDRL ILS-216 and its associated DID ILS-216 to DND for future training of operators.

6.4. In-Service Support

- 6.4.1. The Contractor must conduct service/maintenance visits at the agreed upon frequency to conduct inspections and to ensure equipment is performing as per original specifications. The Contractor may be required to carry out any diagnostics or calibration activities to diagnose problems.
- 6.4.2. The Contractor must provide Field Support Representative (FSR) support on an as-required basis to conduct inspections and repairs to the equipment.
- 6.4.3. The Contractor must effect any required repairs/modifications within twenty (20) working days of the service request.

ANNEX "A" - APPENDIX 1 - SPECIFICATION



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

1. SCOPE

1.1. Purpose

1.1.1. This Requirement Specifications (RS) establishes the performance and verification requirements for the Munition Scrap Flashing Capability at Canadian Forces Ammunition Depot (CFAD) Dundurn. The equipment will be used to heat treat Munition Scrap and Ammunition Salvage contaminated with energetic residue, and not to thermally treat live ammunition items.

2. REQUIREMENTS

2.1. Equipment Requirements

2.1.1. Performance Requirements

2.1.1.1. The equipment must destroy energetic residue present in Ammunition Salvage and Munition Scrap generated by the following:

- a. 5.56 to 155 mm ammunition;
- b. missiles;
- c. rockets;
- d. fragmentation grenades;
- e. naval depth charges;
- f. signal sound marines;
- g. aircraft bombs;
- h. demolition items; and
- i. fuzes.

2.1.1.2. The equipment must be capable of processing at minimum, an item that is 2.5m (L) x 1.0m (W) x 1.0m (H).

2.1.1.3. The equipment must heat treat, at a minimum 1500 kilograms per hour of Munition Scrap and Ammunition Salvage.

2.1.1.4. The equipment must be able to withstand burn off/deflagration of minimum 10 kilograms Net Explosive Weight (NEW) per batch without incurring damage.

2.1.1.5. If a detonation occurs the equipment must be able to withstand detonation without incurring any damage, at minimum 50 grams TNT equivalent NEW per batch.

2.1.1.6. If a detonation occurs the equipment must be able to withstand without causing injury to operators, at minimum 500 grams TNT equivalent NEW per batch.

2.1.1.7. The equipment must incorporate a means of loading and unloading Munition Scrap items (strong boxes, bins, conveyors, etc) as required.

2.1.2. Interface Characteristics

2.1.2.1. Operator Controls - The equipment must have a control panel that conforms to CSA C22.2 NO. 286-17 or equivalent (NFPA 79 or IEC 60204-1:2016) with industry standard controls and indicators for normal, abnormal and emergency system conditions.

2.1.2.2. The user interface must provide emergency STOP control(s) that instantly cuts power to all moving components and processing tasks, except for the system safety features.

2.1.2.3. The user interface must provide the user with controls to select temperature and duration of the thermal cycle.

2.1.2.4. The user interface must provide the option to switch (at start-up) between mains power providing the electrical power requirements of the unit, and an on-board generator providing the electrical power requirements.

2.1.2.5. Status Information - The equipment must provide displays, indications or readouts that provide information on system faults or conditions that require operator attention.

2.1.2.6. Alarms - The equipment must provide visual or audible (or both) alarms relevant to its operation to protect the operator(s) from injury and equipment from damage in the event of an out-of-tolerance condition occurring in the equipment.

2.1.3. Services

2.1.3.1. The equipment capability must be compatible with Canadian land-based power sources, as well as operate off mains power at 600 VAC / 3 Phases / 60 Hertz for its electrical requirements.

2.1.3.2. The equipment must run on natural gas, as the primary fuel source.

2.1.3.3. The equipment must provide power surge protection appropriate to the voltage, current and phases of the mains power used.

2.1.3.4. The equipment must have an on-board generator set that can provide all the electrical requirements.

2.1.3.5. The on-board generator set of the equipment must run either on diesel fuel, gasoline, or propane as the primary fuel source.

2.1.3.6. If equipment requires a compressed air supply, forced air fan, or exhaust fan, the equipment must provide for this requirement.

2.1.4. Accessibility

2.1.4.1. The equipment must provide safe access to all moving parts of all equipment for cleaning and maintenance, when the equipment is OFF (not powered).

2.1.5. Survivability

2.1.5.1. Where there are automatic feeds, the equipment must be provided with sensing, operator warning mechanisms and automatic shut-down switches to prevent damage in the event of material jams.

2.1.6. Maintainability

2.1.6.1. The equipment must not require more than four hours of routine preventive maintenance per 40 hour work week.

2.1.6.2. The equipment must not require any special tools or test equipment other than those provided with the equipment to complete maintenance routines.

2.1.7. Safety and Health

2.1.7.1. Emergency Stops - Additional emergency STOP control(s) that instantly cuts power to all moving components (except for the system safety features) must be located at all hazardous areas of the equipment.

2.1.7.2. Laser Safety - If lasers are employed in the equipment, the class of the laser used must be identified and the laser hazard marked with a warning label calling for workers' eye protection.

2.1.7.3. Projectile Debris

- a. The equipment must provide operator protection from projectile debris caused directly or indirectly by cartridge deflagration or ignition to exit the heating chamber.
- b. For the equipment, the operator control station must be placed at a Contractor determined safe standoff distance from the equipment, or a remote control pendant provided to protect personnel in the event of equipment failure.

2.1.7.4. Noise Level - The equipment must provide visible warning labels calling for hearing protection to be worn if the noise level exceeds 85 decibels at 3 feet distance.

2.1.7.5. Surface Temperature - The equipment must provide visible warning labels calling for protection for hot surfaces that can potentially cause burn injuries upon contact if the surface temperature exceeds 140 degrees Fahrenheit.

2.1.7.6. Linkage Mechanisms with Counterweights - If the design includes linkage mechanisms with counterweights for moving parts, a guard complete with a warning label must be provided, calling for caution to avoid accidents during the mechanism actuation.

2.1.7.7. Personal Protective Equipment (PPE)

- a. The equipment must be provided with visible warning labels for personal protective equipment (PPE) to be worn for applicable emissions.
- b. The equipment must not pose a safety or health hazard to the operator.

2.1.8. Environmental Sustainability

2.1.8.1. Pollution Abatement System (PAS) or Off-gas Treatment System (OGT) - The equipment must come equipped and integrated with a pollution abatement system (PAS) or Off-gas Treatment System (OGT), that:

- a. Includes a heated afterburner or equivalent system to increase the temperature of the off-gas to minimum 1600 degrees Fahrenheit, for 2 seconds.
- b. Includes a particulate filtration system (example: baghouse filters, cyclone filters, High Efficiency Particulate Air (HEPA) filters) to achieve stack emissions of 2 milligrams per cubic meter or less of total particulate matter (TPM), adjusted to 25 degrees Celsius, 101.3 kilopascals and 11 percent oxygen. Particulate matter emitted from the stack must be less than 0.3 microns in diameter.
- c. Includes a molten lead removal system to capture and remove molten lead generated by the heated scrap material.

2.1.9. Environmental Characteristics

2.1.9.1. Operating Temperature - The equipment must operate throughout a temperature range of 5°C to 35°C without performance degradation.

2.1.9.2. Storage Temperature - The equipment must be storable outside throughout a temperature range of -40°C to 40°C.

2.1.9.3. Humidity - The equipment must operate throughout a relative humidity range of 5% to 100% (non-condensing) without performance degradation.

2.1.9.4. Precipitation

- a. All electrical boxes, panels and cabinets must be manufactured in accordance with the National Electrical Manufacturers Association standard, NEMA-4 rating or equivalent.
- b. All wiring and connectors must be designed for outdoor use and be water proof (not immersion proof).

2.1.10. Deployability

2.1.10.1. If the equipment is incorporated into its own trailer system, it must comply with Canadian Motor Vehicle Safety Standards (CMVSS) in order to obtain a license plate.

2.1.10.2. If the equipment is incorporated into its own trailer system, it must comply with dimensional and weight limits of MOU 2016 Heavy Truck Weight and Dimension Limits for Interprovincial Operations in Canada.

2.1.11. Supportability

2.1.11.1. Start-Up - The equipment must start-up and reach full operational performance in maximum 30 minutes.

2.1.11.2. Manning - The equipment must require at most two individuals to operate.

3. VERIFICATION

3.1. Table 1 is a tabulation of all the requirements provided in this Requirements Specification
It is the tracing start point for the Requirements Traceability Matrix.

3.1.1. Glossary of Verification Terminology

Comparison	Comparison is an element of verification that utilizes previous test data or results of the same item to provide evidence that stated requirements are met. This element can only be used if the design and use of the items are identical.
Analysis	Analysis is an element of verification that utilizes established technical evaluation or mathematical models or simulations, algorithms, calculations, charts, graphs, representative data, or other scientific principles and procedures to provide evidence that stated requirements are met.
Inspection	Inspection is an element of verification consisting of investigation or examination of items, without the use of special laboratory equipment or procedures, to determine conformance to those specified requirements that can be determined by such investigation or examination. Inspection is generally non-destructive and typically includes the use of sight, hearing, smell or touch, simple physical manipulation, mechanical and electrical gauging and measurement, and other forms of investigation or examination.
Demonstration	Demonstration is an element of verification consisting of actual operation, adjustment, or re-configuration of items performing their design functions under specific scenarios to provide evidence through observation that the requirements are met. The demonstration may require some simple quantitative measurements such as time to perform tasks or dimensions.
Test	Test is an element of verification consisting of determining through technical means the measurable properties or elements of items, including functional operation, and involving the application of established scientific principles and procedures, to provide evidence through the collection, analysis and evaluation of quantitative data that stated requirements are met.
Statement of Compliance (SoC)	Supplier attestation that the requirement is met.

3.2. Table 1: Requirements Verification Matrix

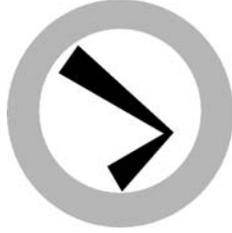
Ident.	Para.	Requirement	Verification Method Expected
FF1	2.1.1.1. Performance	The equipment must destroy energetic residue present in Ammunition Salvage and Munition Scrap generated by the following: a. 5.56 to 155 millimeter ammunition; b. missiles; c. rockets; d. fragmentation grenades; e. naval depth charges; f. signal sound marines; g. aircraft bombs; h. demolition items; and i. fuzes.	Test (Tests must show energetic residue in the output stream is below detectable levels) or Comparison (Provide chemical test data from previous equipment that is of similar design and function for processing like material)
FF2	2.1.1.2.	The equipment must be capable of processing at minimum, an item that is 2.5m (L) x 1.0m (W) x 1.0m (H).	Inspection
FF3	2.1.1.3.	The equipment must heat treat, at a minimum 1500 kilograms per hour of Munition Scrap and Ammunition Salvage.	Test
FF4	2.1.1.4.	The equipment must be able to withstand burn off/deflagration of minimum 10 kilograms Net Explosive Weight (NEW) per batch without incurring damage.	Test, Comparison, or Analysis using FEA
FF5	2.1.1.5.	If a detonation occurs the equipment must be able to withstand detonation without incurring any damage, at minimum 50 grams TNT equivalent NEW per batch.	Test, Comparison, or Analysis using FEA
FF6	2.1.1.6.	If a detonation occurs the equipment must be able to withstand without causing injury to operators, at minimum 500 grams TNT equivalent NEW per batch.	Test, Comparison, or Analysis using FEA
FF7	2.1.1.7.	The equipment must incorporate a means of loading and unloading Munition Scrap items (strong boxes, bins, conveyors, etc) as required.	Inspection
FF8	2.1.2.1. Operator Controls	The equipment must have a control panel that conforms to CSA C22.2 NO. 286-17 or equivalent (NFPA 79 or IEC 60204-1:2016) with industry standard controls and indicators for normal, abnormal and emergency system conditions.	SoC
FF9	2.1.2.2.	The user interface must provide emergency STOP control(s) that instantly cuts power to all moving components and processing tasks, except for the system safety features.	Demonstration

Ident.	Para.	Requirement	Verification Method Expected
FF10	2.1.2.3.	The user interface must provide the user with controls to select temperature and duration of the thermal cycle.	Demonstration
FF11	2.1.2.4.	The user interface must provide the option to switch (at start-up) between mains power providing the electrical power requirements of the unit, and an on-board generator providing the electrical power requirements.	Demonstration
FF12	2.1.2.5. Status Information	The equipment must provide displays, indications or readouts that provide information on system faults or conditions that require operator attention.	Demonstration
FF13	2.1.2.6. Alarms	The equipment must provide visual or audible (or both) alarms relevant to its operation to protect the operator(s) from injury and equipment from damage in the event of an out-of-tolerance condition occurring in the equipment.	Demonstration
FF14	2.1.3.1. Services	The equipment capability must be compatible with Canadian land-based power sources, as well as operate off mains power at 600 VAC / 3 Phases / 60 Hertz for its electrical requirements.	Demonstration
FF15	2.1.3.2.	The equipment must run on natural gas, as the primary fuel source.	Demonstration
FF16	2.1.3.3.	The equipment must provide power surge protection appropriate to the voltage, current and phases of the mains power used.	Inspection
FF17	2.1.3.4.	The equipment must have an on-board generator set that can provide all the electrical requirements.	Demonstration
FF18	2.1.3.5.	The on-board generator set of the equipment must run either on diesel fuel, gasoline, or propane, as the primary fuel source.	Demonstration
FF19	2.1.3.6.	If equipment requires a compressed air supply, forced air fan, or exhaust fan, the equipment must provide for this requirement.	Demonstration
FF20	2.1.4.1. Accessibility	The equipment must provide safe access to all moving parts of all equipment for cleaning and maintenance, when the equipment is OFF (not powered).	Inspection
FF21	2.1.5.1. Survivability	Where there are automatic feeds, the equipment must be provided with sensing, operator warning mechanisms and automatic shut-down switches to prevent damage in the event of material jams.	Demonstration
FF22	2.1.6.1. Maintainability	The equipment must not require more than four hours of routine preventive maintenance per 40 hour work week.	Analysis
FF23	2.1.6.2. Maintainability	The equipment must not require any special tools or test equipment other than those provided with the equipment to complete maintenance routines.	Analysis
FF24	2.1.7.1. Emergency Stops	Additional emergency STOP control(s) that instantly cuts power to all moving components (except for the system safety features) must be located at all hazardous areas of the equipment.	Analysis

Ident.	Para.	Requirement	Verification Method Expected
FF25	2.1.7.2. Laser Safety	If lasers are employed in the equipment, the class of the laser used must be identified and the laser hazard marked with a warning label calling for workers' eye protection.	Inspection
FF26	2.1.7.3.a. Projectile Debris	The equipment must not allow projectile debris caused directly or indirectly by cartridge deflagration or ignition to exit the heating chamber.	Analysis
FF27	2.1.7.3.b.	For the equipment, the operator control station must be placed at a Contractor determined safe standoff distance from the equipment, or a remote control pendant provided, to protect personnel in the event of equipment failure.	Analysis and Inspection
FF28	2.1.7.4. Noise Level	The equipment must provide visible warning labels calling for hearing protection to be worn if the noise level exceeds 85 decibels at 3 feet distance.	Inspection
FF29	2.1.7.5. Surface Temperature	The equipment must provide visible warning labels calling for protection for hot surfaces that can potentially cause burn injuries upon contact if the surface temperature exceeds 140 degrees Fahrenheit.	Inspection
FF30	2.1.7.6. Linkage Mechanisms with Counterweights	If the design includes linkage mechanisms with counterweights for moving parts, a guard complete with a warning label must be provided, calling for caution to avoid accidents during the mechanism actuation.	Inspection
FF31	2.1.7.7.a. PPE	The equipment must be provided with visible warning labels for personal protective equipment (PPE) to be worn for applicable emissions.	Inspection
FF32	2.1.7.7.b.	The equipment must not pose a safety or health hazard to the operator.	Analysis
FF33	2.1.8.1.a. PAS	The equipment must come equipped and integrated with a pollution abatement system (PAS) or Off-gas Treatment System (OGT), that: Includes a heated afterburner or equivalent system to increase the temperature of the off-gas to minimum 1600 degrees Fahrenheit, for 2 seconds.	Demonstration
FF34	2.1.8.1.b. PAS	The equipment must come equipped and integrated with a pollution abatement system (PAS) or Off-gas Treatment System (OGT), that: Includes a particulate filtration system (example: baghouse filters, cyclone filters, High Efficiency Particulate Air (HEPA) filters) to achieve stack emissions of 2 milligrams per cubic meter or less of total particulate matter (TPM), adjusted to 25 degrees Celsius, 101.3 kilopascals and 11 percent oxygen. Particulate matter emitted from the stack must be less than 0.3 microns in diameter.	Test (Supplier must conduct chemical testing to confirm the stack output meets TPM requirement and provide report confirming output levels)
FF35	2.1.8.1.c.	The equipment must come equipped and integrated with a pollution	Demonstration

Ident.	Para.	Requirement	Verification Method Expected
	PAS	abatement system (PAS) or Off-gas Treatment System (OGT), that: Includes a molten lead removal system to capture and remove molten lead generated by the heated scrap material.	
FF36	2.1.9.1. Operating Temperature	The equipment must operate throughout a temperature range of 5°C to 35°C without performance degradation.	SoC
FF37	2.1.9.2. Storage Temperature	The equipment must be storable outside throughout a temperature range of -40°C to 40°C.	SoC
FF38	2.1.9.3. Humidity	The equipment must operate throughout a relative humidity range of 5% to 100% (non-condensing) without performance degradation.	SoC
FF39	2.1.9.4.a. Precipitation	All electrical boxes, panels and cabinets must be manufactured in accordance with the National Electrical Manufacturers Association standard, NEMA-4 rating or equivalent.	SoC
FF40	2.1.9.4.b.	All wiring and connectors must be designed for outdoor use and be water proof (not immersion proof).	SoC
FF41	2.1.10.1. Deployability	If the equipment is incorporated into its own trailer system, it must comply with Canadian Motor Vehicle Safety Standards (CMVSS) in order to obtain a license plate.	SoC
FF42	2.1.10.2.	If the equipment is incorporated into its own trailer system, it must comply with dimensional and weight limits of MOU 2016 Heavy Truck Weight and Dimension Limits for Interprovincial Operations in Canada.	SoC
FF43	2.1.11.1. Start-Up	The equipment must start-up and reach full operational performance in maximum 30 minutes.	Demonstration
FF44	2.1.11.2. Manning	The equipment must require at most two individuals to operate.	Demonstration

ANNEX "A" - APPENDIX 2 - CONTRACT DATA REQUIREMENTS LIST (CDRLs)



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originellement doivent continuer de s'appliquer.

1. CDRL Definitions

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

Block	Definition / Instructions
Item	Sequential three digit #, starting 001 to uniquely identify CDRL item. Preceded by a two-letter code assigned to the applicable DID e.g. CDRL_PM-001.
Title	Use the same title as DID.
References – DID	The identifier assigned to the applicable DID by the PMO. The letters which precede the number indicate the relevant domain (e.g. PM = Project Management, SE = System Engineering).
References – SOW	The SOW or performance-based paragraph that describes the work to be performed.
How Often	Indicates the frequency of delivery of the relevant data item. Suggested terms include the following: ANNLY = annually ASGEN = as generated BI-MO = each two months BI-WK = each two weeks DAILY = daily MNTHY = monthly ONE/R = one time with revisions OTIME = one time QRTLY = quarterly R/ASR = Revisions as required SEMIA = every six months WKLY = weekly
Submission – First	Initial data item submission due date or milestone or event. Suggested terms include the following: ASGEN = as generated ASREQ = as required DAC = days after Contract Award MACA = months after Contract Award EOC = end of contract EOM = end of month EOQ = end of quarter MBFLD = months before fielding
Submission – Later	If data is submitted more than once, this field indicates the dates or milestones for re-submission. Possible values are identified above.
Remarks	Any additional or clarifying information. It can reference notes or documents as required / appropriate. This block should address the delivery method (electronic / paper), addresses, approval timeframe, reviews, and turnaround by the TA or the contractor, as required.

2. Contract Data Requirements List (CDRL) Items List

Item	Title	References		How Often	Submissions		Remarks
		DID	SOW		First	Later	
CDRL PM-002	Master Project Schedule (MPS) and Work Breakdown Structure (WBS)	DID PM-002	4.1.1	One/R	Kick-off meeting (5 days before)	AREQ	The MPS and WBS must be submitted five (5) working days prior to the Kick-off Meeting, and reworked to reflect Canada comments within 10 working days of receipt of comments. Response Time: Canada will provide comments on the within 10 working days of receipt. Upon Canada's approval, the Contractor must baseline the MPS and WBS. The MPS must be revised and re-submitted if and as required to reflect schedule changes approved by Canada.
CDRL PM-007	Equipment Environmental Assessment (EEA)	DID PM-007	4.3.4	One/R	CDR + 15 working days	AREQ	The EEA must be submitted for acceptance within 15 working days following the Critical Design Review (CDR) and reworked to reflect Canada's comments prior to Acceptance Testing. Response Time: Canada will provide comments on the EEA within 20 working days of receipt. Must be subsequently revised as required to reflect any changes to the design of the equipment. The System Specification must be submitted for review at the Preliminary Design Review/Kick-Off Meeting. Response Time: Canada will provide comments on the Specifications within 10 working days of receipt. The final System Specification must be submitted for acceptance within 15 working days of the System Requirements Review/Kick-Off Meeting and subsequently revised as required to reflect changes to the information provided.
CDRL SE-101	System Specification	DID SE-101	5.1.1	One/R	Kick-Off Meeting	Kick-off meeting + 15 working days	

CDRL SE-105	Test and Evaluation Master Plan (TEMP)	DID SE-105	5.3.2.1	One/R	Kick-off meeting + 15 working days	CDR + AREQ	<p>The TEMP must be submitted for review within 15 working days following the System Requirements Review/Kick-Off Meeting, and reworked to reflect Canada's comments.</p> <p>Response Time: Canada will provide comments on the TEMP within 10 working days of receipt.</p> <p>The final TEMP must be submitted for as part of the Meeting Documentation for the Critical Design Review (CDR). It must be subsequently revised as required to reflect changes to the information provided.</p>
CDRL SE-108	Final Test Report	DID SE-108	5.3.3.1	One/R	Installation Testing + 15 working days	Canada Response Time + 5 working days	<p>The Final Test Report must be submitted 15 working days after completion of the Installation Testing at CFAD Dundurn.</p> <p>Response Time: Canada will provide comments on the Final Test Reports within 10 working days following submission receipt.</p> <p>Corrections must be incorporated within five (5) working days of receipt of Canada comments.</p>
CDRL ILS-211	Maintenance Manual (MM) including Maintenance Plan (MP)		6.2.1	One/R	CDR + 30 working days	Final acceptance	<p>The Maintenance Plan (MP), must be submitted for review within 30 working days following the CDR, and reworked to reflect Canada comments within 15 working days of receipt of comments.</p> <p>Response Time: Canada will provide comments within 15 working days following submission receipt.</p> <p>The final version of the Maintenance Manual (MM), including the Maintenance Plan (MP), must be submitted, as part of final acceptance.</p>

CDRL ILS-213	Operator Manual		6.2.2	One/R	CDR + 30 working days	Final accepta nce	<p>The Operator Manual must be submitted for review 30 working days following the CDR, and reworked to reflect Canada comments within 15 working days of receipt of comments.</p> <p>Response Time: Canada will provide comments within 15 working days following submission receipt.</p> <p>The final version of the Operator Manual must be submitted, as part of final acceptance.</p>
CDRL ILS-216	Training Material	DID ILS-216	6.3.2	One/R	Installatio n testing (40 working days prior)	Final accepta nce	<p>The draft Training Material must be submitted for review 40 working days before the start of on-site installation at CFAD Dundurn, and reworked to reflect Canada comments within 15 working days of receipt of comments.</p> <p>Response Time: Canada will provide comments within 15 working days following submission receipt.</p> <p>The final version of the Training Material must be submitted as part of final acceptance.</p>

ANNEX "A" - APPENDIX 3 - DATA ITEM DESCRIPTIONS (DIDs)



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

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Data Item Description (DID) Definitions

The following 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 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 - APPROVAL DATE

Indicates the date of the originator's approval of the DID.

BLOCK 5 - OFFICE OF PRIMARY INTEREST (OPI)

The office of primary interest for the review, acceptance and/or approval of the data item.

BLOCK 6 - GIDEP APPLICABLE

An “X” indicates that the data is to be submitted by a Government organization or the Contractor to the Government/Industry Data Exchange Program (GIDEP). Otherwise the block is left blank.

BLOCK 7 - APPLICATION / INTERRELATIONSHIP

Provides the application details and interrelationship of the data item to other DIDs or documents.

BLOCK 8 - ORIGINATOR

Indicates the originator's office responsible for the DID. Typically reviews data items prior to their acceptance/approval and provides recommendations to the OPI.

BLOCK 9 - APPLICABLE FORMS

Indicates any form associated with the DID.

BLOCK 10 - PREPARATION INSTRUCTIONS

Provides the preparation instructions, including format and content requirements for the data.

DATA ITEM DESCRIPTION

1. TITLE Master Project Schedule (MPS) and Work Breakdown Structure (WBS)		2. IDENTIFICATION NUMBER PM-002	
3. DESCRIPTION The MPS details the activities, their sequencing, duration and dependencies against a calendar time-base and all WBS activities for the requirements of the Contract. The MPS and WBS detail all activities covering the complete duration of the Contract. Updates to the MPS and WBS provide the TA with the visibility of accomplishments to date at a level of detail that is indicative of overall performance.			
4. APPROVAL DATE		5. OFFICE OF PRIMARY INTEREST DND / DGLEPM / DAEME 4	
6. GIDEP APPLICABLE			
7. APPLICATION / INTERRELATIONSHIP			
8. ORIGINATOR DND / DGLEPM / DAEME 4		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS 10.1 FORMAT 10.1.1 The MPS must consist of a Gantt chart reflecting activity start and end dates, expected activity duration, activity dependencies, critical path(s) and WBS element number, all against a calendar time base. 10.2 CONTENT 10.2.1 The MPS and WBS must reflect the entire scope of the Project work, including subcontracted activities. The WBS must be developed in as much detail as required to define the work effort necessary to successfully achieve the requirements of the contract. The MPS must reflect the delivery and support schedule defined in the Contract and include all WBS elements and tasks (those which define the level of reporting that the contractor will provide to Canada), all milestones and deliverable end items. The MPS must detail the sequencing, activity duration, schedule of all events against a calendar time base, milestones and all WBS activities down to the work package level which must occur for the objectives and cross-referenced requirements of the Contract to be achieved. The MPS must detail all activities covering the complete duration of the Contract. The MPS must be base-lined at contract award. 10.2.2 Updates to the MPS must clearly indicate actual progress to a specific date against the schedule baseline, and changes in activity start and end dates. The MPS baseline must be the measurement baseline for project performance and actual versus planned progress. All baseline activity must be maintained and provided using the same WBS code of accounts entry on the Gantt chart incorporating any approved changes to activity start and finish dates. The baseline activity start and finish dates and updated start and finish dates must be uniquely identifiable at the activity level. 10.2.3 The MPS must show a time-phased sequence of upper level activities and events, and their relationship to the WBS elements and activities. 10.2.4 Each MPS activity must include all details associated with each WBS elements.			

DATA ITEM DESCRIPTION

<p>1. TITLE</p> <p>Equipment Environmental Assessment (EEA)</p>	<p>2. IDENTIFICATION NUMBER</p> <p>PM-007</p>	
<p>3. DESCRIPTION</p> <p>The EEA identifies and documents potential environmental impacts of the equipment over various life-cycle phases (test and evaluation following production, operation and maintenance, and demilitarization and disposal) and the associated mitigation measures required to reduce or eliminate them.</p>		
<p>4. APPROVAL DATE</p>	<p>5. OFFICE OF PRIMARY INTEREST</p>	<p>6. GIDEP APPLICABLE</p>
<p>7. APPLICATION/INTERRELATIONSHIP</p> <p>This DID contains content and preparation instructions for the EEA as required by the SOW.</p>		
<p>8. ORIGINATOR</p>	<p>9. APPLICABLE FORMS</p>	
<p>10. PREPARATION INSTRUCTIONS</p> <p>10.1 FORMAT</p> <p>10.1.1 The EEA will be in the Contractor's format.</p> <p>10.2 CONTENT</p> <p>The EEA must contain the following sections and information, as a minimum:</p> <p>10.2.1 Title Page</p> <ul style="list-style-type: none"> a. Equipment Name and NSN (if available) b. Originating Directorate: TBD c. DGLEPM EEA Registration Number: TBD d. Assessment Contact: Name, title and company name of the author of the EEA <p>10.2.2 Executive Summary</p> <p>Provide a brief summary of potential environmental impacts and recommended mitigation measures for each life-cycle (test and evaluation following production, operation and maintenance, and demilitarization and disposal).</p> <p>10.2.3 Equipment Description</p> <ul style="list-style-type: none"> a. Equipment description: Provide an overview of the equipment and identify each major sub-system as per the Equipment Breakdown Structure. b. For each major sub-system, identify the following: <ul style="list-style-type: none"> i) Ionizing radiation sources (radioisotopes and x-ray); e.g. Uranium, Radon, plutonium and tritium etc. ii) Non-ionizing radiation sources (radiofrequency and lasers). iii) Identify hazardous substances that are incorporated into the equipment design. Provide additional information in tabular form in Annex A. iv) Identify hazardous products that are: <ul style="list-style-type: none"> - Used during manufacturing (i.e. paints/surface treatments, adhesives, lubricants, consumables such as batteries, etc.). - Recommended by the Contractor during the in-service life-cycle phase (i.e. lubricants, cleaners, decontaminants, etc.) or included in the Technical Documentation. v) Provide (Material) Safety Data Sheets (M) SDS in Annex C for all hazardous products. <p>10.2.4 Environmental Assessment</p>		

For each lifecycle phase (test and evaluation following production, operation and maintenance, and demilitarization and disposal) discuss the following:

- a. Lifecycle activities: Describe anticipated activities (including operator and maintenance tasks that are detailed in Contractor provided Technical Documentation) and identify if any of these activities have the potential to: release a polluting substance to air, water or land (e.g. exhaust emissions, hazardous waste, spills, etc.); impact human health; noise or vibration; and/or alter landscape features. Note: The scope of the EEA excludes activities related to the use of munitions.
- b. Environmental impacts: Describe the potential environmental impacts identified above.
- c. Mitigation Measures: Describe mitigation measures to eliminate or reduce identified potential environmental impacts, including those that are part of the design, any warning devices, emission control equipment, spill response, safe handling and disposal procedures, training, PPE, labels on equipment, cautions and warnings in the Technical Documentation, monitoring or inspections, etc.

10.2.5 Conclusions and Recommendations

Summarize the main environmental impacts and recommended mitigation measures.

10.2.6 References

List references consulted in the completion of the EEA (such as Canadian legislation, DND policies and procedures, technical documentation, etc.)

Annex A - List of Hazardous Substances in the Equipment

Hazardous Substance	NSN	Original OEM Part Number	Item Description	Location	Additional Details
Antimony, Arsenic, Beryllium, Brass, Bronze, Chromium VI, Cobalt, Copper, Lead, Precious and radioactive metals					
Asbestos					Type and Mil Spec
Halocarbons					Type and weight (kg). Global Warming Potential of Hydrofluorocarbons used for refrigerant applications.
Ionizing radiation					Type and quantity or activity level
Mercury and its compounds					Product Category, form of mercury (e.g. liquid, vapour) and weight (mg)
Non-ionizing radiation					Type of electromagnetic energy (laser, microwave, radio frequency) and strength
Polychlorinated Biphenyl					Form (liquid or solid), quantity (kg), volume (L) and concentration in ppm

* Note: Provide information on the presence of other metals, metal coatings, surface treatments, etc. if available and even if regulations are not in existence at the time of the assessment.

Annex B – List of Hazardous Products

Hazardous Product	NSN	Product Part Number / Manufacturer	Ingredient	Chemical Abstract Service Number	Controls*
Adhesives, anti-seize, anti-static, batteries, solvents, cleaners and degreasers, compressed gases, coolant, corrosion inhibitor, cutting fluid, decontaminant, desiccant, detector kit, dielectric compounds, fire extinguishing agent, flame retardant, fuel, grease, inspection penetrant, lubricants, paints and related commodities (topcoat, primer, wash-primer, thinner, paint stripper, powder coating, underbody coating), polishing compounds (automotive polish, leather care), refrigerants, sealants, spill kits, welding compounds (solder, flux, electrode etc.), etc.					

*Controls: Identify if the substance is regulated under the *Canadian Environmental Protection Act, 1999*; targeted in Schedule 1, Toxic Substance List under CEPA and/or subject to the reporting requirements under the National Pollutant Release Inventory (NPRI).

Annex C – (Material) Safety Data Sheets (M)SDS for all hazardous products identified in the EEA

DATA ITEM DESCRIPTION		
1. TITLE System Specifications	2. IDENTIFICATION NUMBER SE-101	
3. DESCRIPTION System Specifications establish the performance, design, development and test requirements for hardware and software/firmware to meet a set of capability requirements. The level of detail is sufficient to enable the specification of specific component requirements.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST DND / DGLEPM / DAEME 4	6. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP		
8. ORIGINATOR DND / DGLEPM / DAEME 4	9. APPLICABLE FORMS	
<p>10. PREPARATION INSTRUCTIONS</p> <p>10.1.1 FORMAT</p> <p>10.1.2 The Specifications must be in the Contractor's format.</p> <p>10.1.3 CONTENT</p> <p>10.1.4 The specification technical content and the specification type classification must be prepared IAW the intent of the Type A – “System Specification” of D-01-300-100/SG-000 – “Standard for Specification Preparation - Technical Content”.</p> <p>10.1.5 The specification must include the equipment performance requirements.</p> <p>10.1.6 The specification must include engineering drawings of the system, equipment and major components.</p> <p>10.1.7 Electronic copies of the engineering drawings must be provided in electronic format for viewing and as Computer Aided Design (CAD) files.</p> <p>10.1.8 The specification must include a completed Requirements Traceability Matrix for all requirements of the RS.</p> <p>10.1.9 All documents and drawings provided to DND as part of the deliverables must be written in either English or French, with English preferred if both are available.</p>		

DATA ITEM DESCRIPTION		
1. TITLE Test and Evaluation Master Plan (TEMP)	2. IDENTIFICATION NUMBER SE-105	
3. DESCRIPTION The TEMP describes in detail the Test & Evaluation (T&E) Program to be conducted to ensure that the design and the manufactured products comply with the Contract Requirements Specification (RS). The TEMP addresses the overall test philosophy, concept, methodology, process and approach. The TEMP provides a master schedule of the Acceptance Tests to be conducted as part of the Contract. The TEMP also includes the completed Requirements Verification Matrix (RVM) from the Requirements Specification (Appendix 1 to Annex A to the Contract). The RVM will be used by both the Contractor and DND to determine the nature and extent of the tests to be performed, and as a traceability tool to ensure all required tests are conducted and all requirements are met.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST DND / DGGLEPM / DAEME 4	6. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP		
8. ORIGINATOR DND / DGGLEPM / DAEME 4	9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS 10.1 FORMAT 10.1.1 The TEMP must be in the Contractor's format. 10.1.2 The RVM must be in a Microsoft Office suite compatible spreadsheet, appropriately formatted. 10.2 CONTENT 10.2.1 The TEMP must describe in detail the T&E Program to be conducted to ensure that the SAA brass certification products comply with the RS. The TEMP must address the overall test philosophy, concept, methodology, process and approach. The TEMP must also describe the processes for scheduling, planning, organizing, directing, conducting, controlling and coordinating tests and evaluations. 10.2.2 <u>Master Test Schedule.</u> 10.2.2.1 The Master Test Schedule must cover all Acceptance Tests to be conducted as part of the Contract. The Master Test Schedule must clearly indicate actual progress against the MPS baseline. 10.2.2.2 The TEMP's Master Test Schedule must be integrated with the Master Project Schedule (MPS), DID PM- 002. 10.2.3 <u>Requirements Verification Matrix (RVM).</u> 10.2.3.1 The TEMP must also include a completed RVM. The RVM must define and detail the nature and extent of the tests to be performed, and provide the required traceability information to ensure all required tests are conducted and all requirements are met 10.2.3.2 The RVM must trace the requirements of the RS, including any specific verification requirements described in the RS, to the Contractor's Equipment Specifications and identify the specific test methods to be applied (including Analysis, Inspection, Demonstration and Test) for each of the Qualification Tests, Production Tests and Acceptance Tests to be performed.		

DATA ITEM DESCRIPTION		
1. TITLE Final Test Report	2. IDENTIFICATION NUMBER SE-108	
3. DESCRIPTION The Final Test Report documents the proceedings, results, recommendations and action items of the Tests conducted as part of the test and evaluation program.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST DND / DGLEPM / DAEME 4	6. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP		
8. ORIGINATOR DND / DGLEPM / DAEME 4	9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS		
10.1 FORMAT		
10.1.1 The Test Reports must be in the Contractor's format.		
10.2 CONTENT		
10.2.1 The Test Report must include and describe the following:		
<ul style="list-style-type: none"> a. Organizations and personnel which conducted the applicable test; b. Organizations and personnel witnessing, participating and present; c. Associated Test Procedures; d. Details of corrections to any information originally contained in the associated Test Procedures; e. Results of tests, including test logs and digital pictures and/or video recordings of tests and set-up; f. Explanations, recommendations, decisions and follow-on actions for partially met requirements; g. Explanations, recommendations, decisions and follow-on actions for failed tests; and h. Authority accepting responsibility for the testing. 		
10.2.2 Certified copies of the completed tests procedures, analysis and any other supporting documentation must be appended to the Test Reports.		
10.2.3 The associated RVM data must also form part of the Test Report, indicating the requirements tested against, whether they were met, partially met or failed, as well as all supporting explanations, recommendations, decisions and follow-on actions.		

DATA ITEM DESCRIPTION		
1. TITLE Training Material	2. IDENTIFICATION NUMBER ILS-216	
3. DESCRIPTION The Training Material contains the information and presentation used for training CF personnel on equipment operation and maintenance tasks.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST DND / DGLEPM / DAEME 4	6. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP		
8. ORIGINATOR DND / DGLEPM / DAEME 4	9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS		
<p>10.1 FORMAT</p> <p>10.1.1 The Training Material must be in Contractor format.</p> <p>10.1.2 The Training Material must be delivered as a paper-based classroom instruction package supplemented slides, overheads, videos and hands-on equipment instruction.</p> <p>10.2 CONTENT</p> <p>10.2.1 The following topics must be addressed in the content of the User course(s) as a minimum:</p> <ul style="list-style-type: none"> a. Overview of System theory; b. Equipment overview; c. Equipment set-up; d. Pre-use testing/inspection; e. Use and operation; f. User maintenance and care; g. Consumable replacement; h. Basic diagnosis and/or fault finding; i. Storage; j. Safety, including personnel and equipment; and k. Hazardous material issues. <p>10.2.2 The following topics must be addressed in the content of the Maintenance course(s) as a minimum:</p> <ul style="list-style-type: none"> a. Inspection and testing; b. Troubleshooting and fault finding; c. Preventive maintenance procedures; d. Corrective maintenance procedures; e. Maintenance resources, facilities, assemblies/sub-assemblies, consumables, tools and test equipment required; f. Packaging, Handling, Storage and Transportation (PHST); g. Personnel and equipment safety issues; h. Hazardous material issues, including handling and disposal; and i. Controlled Goods and Intellectual Property issues for the equipment and its associated data, including disposal. 		

ANNEX "A" - APPENDIX 4 - MAINTENANCE CONCEPT



NOTICE

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AVIS

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1. SCOPE

1.1. Purpose

1.1.1. This document describes the overall Maintenance Concept for the CFAD Dundurn Flashing Capability, and in doing so it provides the Contractor with information required to develop effective logistics support plans.

2. MAINTENANCE CONCEPT

2.1. The Maintenance Concept

2.1.1. The CFAD Dundurn Flashing Capability Maintenance Concept is "First to Third Line" meaning that any equipment requiring maintenance beyond the capability of Operators or First Line maintenance personnel will be returned to the Contractor or the Contractor designated support provider for repair. DND/CAF will only perform routine Preventive and limited Corrective Maintenance tasks, with all complex maintenance tasks including repair and overhaul activities supported by established in-service support service contracts.

2.2. Maintenance Policy

2.2.1. The following maintenance policy elements have been used to develop the maintenance Concept:

- a. The manufacturer's recommended preventive and corrective maintenance actions and servicing procedures will be used as the basis for maintenance activities;
- b. Maintenance tasks will be performed by users, CAF operators or equivalent civilian personnel;
- c. DND/CAF maintenance tasks and activities will be performed by unit integral resources and will be limited to repairs requiring no more than four (4) hours to complete, per task;
- d. Maintenance will consist of the inspection, removal and replacement of damaged, worn or otherwise unserviceable assemblies/subassemblies; and
- e. Damaged or unserviceable assemblies/subassemblies beyond the capabilities of integral resources will be returned to the Contractor through established support service contracts for repairs, disposal and/or repair and overhaul.

2.2.2. Sample Operator maintenance activities performed by DND/CAF operators are:

- a. Non-technical inspections and functional checks;
- b. Cleaning and preventive maintenance operations to ensure readiness of the equipment;
- c. Battery replacement; and
- d. Additional activities as recommended by the Contractor and agreed to by DND/CAF.

2.2.3. Sample First Line maintenance activities performed by DND/CAF operators are:

- a. Serviceability assessments;
- b. Operational checks;
- c. Limited calibration activities;
- d. Equipment troubleshooting to the major component level using Built-In Tests;
- e. Minor repairs and adjustments such as straps, covers, switch knobs, harness attachments that do not require unit disassembly;
- f. Scheduled preventive maintenance inspections; and
- g. Additional First Line maintenance activities as recommended by the Contractor and agreed to by DND/CAF.

2.3. Special Tools and Test Equipment (STTE)

2.3.1. The following principles govern the requirement for STTE for support activities:

- a. The Contractor must identify all standard tooling and STTE required for support of the CFAD Dundurn Flashing Capability in the Maintenance Plan; and
- b. The STTE for First Line maintenance tasks must be provided by the Contractor.

2.3.2. **Note:** STTE is defined as any Tooling and Test Equipment that is specific to the system being procured and is not already in service with DND/CAF maintenance organizations.

ANNEX "B" - BASIS OF PAYMENT



NOTICE

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1. Basis of Payment – Initial Acquisition

1.1 The Contractor shall be paid firm prices, in Canadian dollars, delivered duty paid (DDP) to the destinations identified in the SOW (FOB DDP or FCA DDP), GST/HST extra, Custom Duties and Excise Taxes included, where applicable. Prices include travel and living expenses.

1.2 Flashing Furnace System Acquisition

1.2.1 A firm lot price must be paid for the supply, installation, integration, and testing of one (1) Flashing Furnace System, including special test and support equipment. All associated equipment, publications, services and training as described in Annex "A" are included in this firm lot price.

For quantity one (1) Flashing Furnace System, including PAS and spare parts, a firm lot price of
\$ _____
(Bidder to Populate)

1.2.2 This firm lot price from Section 1.2.1 will be broken down and payable in accordance with Table 2-1: Milestone Payments.

Table 1-1: Milestone Payments

Item	Description	Schedule	Percentage of Firm Lot Price	Percentage Value (Bidder to Populate)
001	<p>Milestone 1 On completion and acceptance by the DND Technical Authority (TA) of the system requirements at the Kick-Off Meeting.</p> <p>On delivery and receipt of the initial DRAFT documents:</p> <ul style="list-style-type: none"> a. Master Project Schedule (MPS) and Work Breakdown Structure (DID# PM-002) IAW CDRL PM-002; b. System Specifications (DID# SE-101) IAW CDRL SE-101; c. Test and Evaluation Master Plan (TEMP) (DID# SE-105) IAW CDRL SE-105; <p>On completion of the following items (as required):</p> <ul style="list-style-type: none"> a. Kick-Off Meeting Minutes; b. Action Item Report; c. Engineering Change Proposal (ECP); 	<p>Contract Award + _____ Calendar Days</p>	10%	\$ _____

Item	Description	Schedule	Percentage of Firm Lot Price	Percentage Value (Bidder to Populate)
002	<p>Milestone 2 On completion and acceptance by the DND TA of the Critical Design Review (CDR).</p> <p>On delivery and receipt of the initial DRAFT documents: a. Maintenance Manual (MM) including Maintenance Plan (MP) (DID# ILS-209) IAW CDRL ILS-209;</p> <p>On delivery and receipt of the final documents: a. Master Project Schedule (MPS) and Work Breakdown Structure (DID# PM-002) IAW CDRL PM-002; b. System Specifications (DID# SE-101) IAW CDRL SE-101; c. Test and Evaluation Master Plan (TEMP) (DID# SE-105) IAW CDRL SE-105;</p> <p>On completion of the following items (as required): a. CDR Meeting Minutes; b. Action Item Report; c. Engineering Change Proposal (ECP);</p>	<p>Contract Award + _____ Calendar Days</p>	10%	\$_____.
003	<p>Milestone 3 On completion and acceptance by the DND TA of Successful Completion of Qualification Tests at the manufacturer's facility.</p> <p>On delivery and receipt of the initial DRAFT documents: a. Supplementary Provisioning Technical Documentation (SPTD); b. Equipment Identification Plate Data; c. Operator Manual (User Manual) IAW CDRL SE-213; d. Training Material (DID# ILS-216) IAW CDRL ILS-216;</p> <p>On delivery and receipt of the final documents: a. Recommended Spare Parts List;</p> <p>On completion of the following items (as required): a. Meeting Minutes; b. Action Item Report; c. Engineering Change Proposal (ECP);</p>	<p>Contract Award + _____ Calendar Days</p>	40%	\$_____.

Item	Description	Schedule	Percentage of Firm Lot Price	Percentage Value (Bidder to Populate)
004	<p>Milestone 4 On completion and acceptance by the DND TA of Installation, Set-to-Work and Successful Completion of Installation Tests and Availability Demonstration of the Flashing Furnace System and PAS, as well as completion and acceptance of operator training.</p> <p>On delivery and receipt of the final documents:</p> <ul style="list-style-type: none"> a. Equipment Identification Plate Data; b. Maintenance Manual (MM) including Maintenance Plan (MP) (DID# ILS-209) IAW CDRL ILS-209; c. Operator Manual (User Manual) IAW CDRL SE-213; d. Training Material (DID# ILS-216) IAW CDRL ILS-216; e. Final Test Report (DND# SE-108) IAW CDRL SE-108; <p>On delivery and receipt of the spare parts kit and Supplementary Provisioning Technical Documentation (SPTD).</p>	<p>Contract Award + ____ Calendar Days</p>	40%	\$_____.

2. Basis of Payment – In Service Support

2.1. For execution and delivery of annual maintenance activities defined in this contract, The Contractor shall be annual paid firm prices, in Canadian dollars, delivered duty paid (DDP) to the destinations identified in the Contract (FOB DDP or FCA DDP), GST/HST extra, Custom Duties and Excise Taxes included, where applicable. Prices include travel and living expenses.

2.2. Annual Firm Fixed Prices will be paid as follows:

Table 2-1: Annual Service/Maintenance Visits

Item	Description	Firm Fixed Price (Period 1) (Bidder to Populate)	Firm Fixed Price (Period 2) (Bidder to Populate)	Firm Fixed Price (Period 3) (Bidder to Populate)	Firm Fixed Price (Period 4) (Bidder to Populate)	Firm Fixed Price (Period 5) (Bidder to Populate)	Firm Fixed Price (Option Period 1) (Bidder to Populate)	Firm Fixed Price (Option Period 2) (Bidder to Populate)
005	Annual service / maintenance visits	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

2.3. For the provision of Field Service Representatives (FSR) in accordance with the Contract and Annex "A" Statement of Work, the Contractor shall be paid all-inclusive fixed hourly rates, FCA common carrier Contractor's plant, as follows:

Table 2-2: Hourly Rates

Item	Description	Firm Fixed Hourly Rate (Period 1) (Bidder to Populate)	Firm Fixed Hourly Rate (Period 2) (Bidder to Populate)	Firm Fixed Hourly Rate (Period 3) (Bidder to Populate)	Firm Fixed Hourly Rate (Period 4) (Bidder to Populate)	Firm Fixed Hourly Rate (Period 5) (Bidder to Populate)	Firm Fixed Hourly Rate (Option Period 1) (Bidder to Populate)	Firm Fixed Hourly Rate (Option Period 2) (Bidder to Populate)
006	Field Service Representative Technician	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
007	Field Service Representative Engineer	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

2.4. The above rates are exclusive of all travel, subsistence and materials which shall be invoiced as indicated at paragraphs 4 and 5 below.

1.1. For Contractor furnished materials and other direct costs, incurred in performance of FSR taskings (DND 626) the Contractor will be paid actual cost (as defined at para 2.3.4 below) plus a markup of

_____ %
(Bidder to Populate)

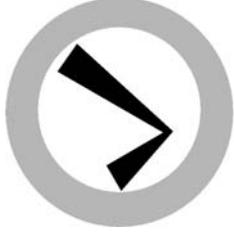
3. Travel and Living Expenses

- 3.1. The Contractor will be reimbursed for the authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for overhead or profit, in accordance with the meal, private vehicle and incidental expense allowances specified in Appendices B, C and D of the Treasury Board Travel Directive, (<https://www.canada.ca/en/treasury-board-secretariat/services/travel-relocation/travel-government-business.html>) and with the other provisions of the directive referring to "travelers", rather than those referring to "employees". All Travel must have the prior authorization of the Project Authority via a DND 626. All payments are subject to government audit.

4. Definitions of Actual Cost

- 4.1. For Contractor Manufactured Parts, "actual cost" includes Direct Material, Material Handling, Direct Manufacturing Labour and Direct Manufacturing Labour Overhead; Exclusive of G&A and Profit.
- 4.2. For Contractor Acquired Parts, "actual cost" is the laid down cost incurred by the supplier to acquire a specific product or service for resale to the government. This includes the supplier's invoice price (less trade discounts) plus any applicable charges for incoming transportation, foreign exchange, customs duty and brokerage, but excludes the HST.

ANNEX "C" - BID EVALUATION



NOTICE

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1. Evaluation Matrix

With their bid, Bidders must complete and submit Appendix 1 to Annex B – Evaluation Compliance Matrix.

The following columns are populated and provided by Canada and explained as:

Column A – Statement of Work Reference - explains where in Annex A – Statement of Work the requirement is explained and detailed (if applicable).

Column B – Requirement Statement - explains in text form what the requirement being evaluated is.

Column C – Mandatory or Rated - explain if the specific requirement is a MANDATORY requirement that must be met or a RATED requirement that Bidders can earn points based on their response.

Column D – Scoring Range - explains how the requirement being evaluated will be scored. For Mandatory requirement, this is simply either “Compliant” or “Non-Compliant”. For Rated requirements, a breakdown of the available score for the line is provided. Evaluators will award one and only one (1) of the available point options for the line.

Within the Evaluation Compliance Matrix, Bidders must provide information in the following columns:

Column E – Bidders Response - For each requirement, Bidders should state their compliance (either Compliant or Non-Compliant) to the specific requirement. Every mandatory requirement should be addressed.

Column F – Demonstration of Compliance/Capability – Bidders should explain which method of proof they are providing to demonstrate their compliance/capability.

Bidders may use one of the following methods of demonstrating proof:

- a. Proof Provided – a statement that there is an inclusion with the Bid package that explains the compliance or capability being evaluated; or
- b. Statement of Compliance – a statement by the Bidder that they are fully in compliance with the requirement, or what they have described as their capability.

Column G – Bid Package Reference - Bidders should list exactly where within their bid package the substantiation and demonstration of compliance/score for the response can be found.

Column H – Bidder's Comments - Bidder's should provide brief commentary on how their solution/bid meets the individual requirement.

ANNEX "C" – APENDIX 1 - BID EVALUATION COMPLIANCE MATRIX

Item	Reference	Requirement Statement	Instructions to Bidders	Bidder Response (Compliant or Non-Compliant)	Bid Package Reference	Bidder's Comments
M1	General	The acquisition of all material and equipment must not exceed a total cost of \$3,500,000. ⁰⁰ CAD (Customs duties are excluded and Applicable Taxes are extra).	In their Financial bid only, Bidder must show the total price for the material and equipment is less than the budget stated. NOTE: There must NOT be any dollar value or monetary amount entered as part of the text response to this requirement; financial information must only be present in the Financial Bid section.			
M2PB	Proven Technology	At least three (3) units of the type proposed or similar model have been fielded, and operated within the past ten (10) years.	Bidder must provide as part of the bid proposal, names of organizations to which units were sold to, date of sale, number of years equipment has been in service, and contact name and email addresses of previous customers. Note: Canada may contact previous customers to confirm the sale of equipment.			
M3PB	System Specification	With their bid, the Bidder must provide a system/equipment specification sheet describing the technical solution proposed for the Flashing Furnace System, in response to Appendix 1 (Requirement Specification) to this SOW.	Bidder must include the following: • Equipment name: • Model #: • Performance specifications sheet (attach separately) • Illustrations/engineering drawings (attach separately) showing overall dimensions and weight.			
M4	2.1.1.1.	The equipment must destroy energetic residue	The Bidder must provide description			

Item	Reference	Requirement Statement	Instructions to Bidders	Bidder Response (Compliant or Non-Compliant)	Bid Package Reference	Bidder's Comments
	Performance	<p>present in Ammunition Salvage and Munition Scrap generated by the following:</p> <ul style="list-style-type: none"> a. 5.56 to 155 mm ammunition; b. missiles; c. rockets; d. fragmentation grenades; e. naval depth charges; f. signal sound marines; g. aircraft bombs; h. demolition items; and i. fuzes. 	<p>of the equipment/system proposed and explain how it destroys energetic residue from the above lists items. The Bidder may also provide past test reports or technical studies to demonstrate how this requirement has been met.</p>			
M5	2.1.1.3.	<p>The equipment must heat treat, at a minimum 1500 kilograms per hour of Munition Scrap and Ammunition Salvage.</p>	<p>The Bidder must provide general description of the thermal chamber including dimensions and method of loading/unloading to provide confidence to the Evaluator that the system is capable of achieving the above throughput.</p>			
M6	2.1.1.4.	<p>The equipment must be able to withstand burn off/deflagration of minimum 10 kilograms Net Explosive Weight (NEW) per batch without incurring damage.</p>	<p>The Bidder must provide technical test reports, calculations or modelling (Finite Element Analysis) data to show that the equipment is capable of withstanding the deflagration/explosive limit specified above.</p>			
M7	2.1.8.1. PAS	<p>The equipment must come equipped and integrated with a pollution abatement system (PAS) or Off-gas Treatment System (OGT), that:</p> <ul style="list-style-type: none"> a. Includes a heated afterburner or equivalent system to increase the temperature of the off-gas to minimum 1600 degrees Fahrenheit, for 2 seconds. b. Includes a particulate filtration system (example: baghouse filters, cyclone filters, High Efficiency Particulate Air (HEPA) filters) to achieve stack emissions of 2 milligrams per 	<p>The Bidder must provide detailed description of the PAS/OGT proposed including performance specifications of all modules/components making up the PAS/OGT.</p>			

Item	Reference	Requirement Statement	Instructions to Bidders	Bidder Response (Compliant or Non-Compliant)	Bid Package Reference	Bidder's Comments
		cubic meter or less of total particulate matter (TPM), adjusted to 25 degrees Celsius, 101.3 kilopascals and 11 percent oxygen. Particulate matter emitted from the stack must be less than 0.3 microns in diameter. c. Includes a molten lead removal system to capture and remove molten lead generated by the heated scrap material.				

ANNEX "D" - SECURITY REQUIREMENTS CHECK LIST



Contract Number / Numéro du contrat W8476-196048
Security Classification / Classification de sécurité UNCLASSIFIED

**SECURITY REQUIREMENTS CHECK LIST (SRCL)
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)**

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND	2. Branch or Directorate / Direction générale ou Direction ADM(Mat)/DGLEPM/DAEME	
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Contractor will need access to CFAD Dundurn premises to install the equipment and complete the operator training of DND personnel.		
5. a) Will the supplier require access to Controlled Goods? / Le fournisseur aura-t-il accès à des marchandises contrôlées? <input checked="" type="checkbox"/> No / <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Non / <input type="checkbox"/> Oui		
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? / Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? <input checked="" type="checkbox"/> No / <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Non / <input type="checkbox"/> Oui		
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? (Specify the level of access using the chart in Question 7. c) / Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) <input checked="" type="checkbox"/> No / <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Non / <input type="checkbox"/> Oui		
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. / Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. <input type="checkbox"/> No / <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Non / <input checked="" type="checkbox"/> Oui		
6. c) Is this a commercial courier or delivery requirement with no overnight storage? / S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit? <input checked="" type="checkbox"/> No / <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Non / <input type="checkbox"/> Oui		
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada	NATO / OTAN	Foreign / Étranger
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion Not releasable / À ne pas diffuser Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :	All NATO countries / Tous les pays de l'OTAN Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :	No release restrictions / Aucune restriction relative à la diffusion Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays :
7. c) Level of information / Niveau d'information		
PROTECTED A / PROTÉGÉ A	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ	PROTECTED A / PROTÉGÉ A
PROTECTED B / PROTÉGÉ B	NATO RESTRICTED / NATO DIFFUSION RESTREINTE	PROTECTED B / PROTÉGÉ B
PROTECTED C / PROTÉGÉ C	NATO CONFIDENTIAL / NATO CONFIDENTIEL	PROTECTED C / PROTÉGÉ C
CONFIDENTIAL / CONFIDENTIEL	NATO SECRET / NATO SECRET	CONFIDENTIAL / CONFIDENTIEL
SECRET / SECRET	COSMIC TOP SECRET / COSMIC TRÈS SECRET	SECRET / SECRET
TOP SECRET / TRÈS SECRET		TOP SECRET / TRÈS SECRET
TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT)		TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT)



Contract Number / Numéro du contrat W8476-196048
Security Classification / Classification de sécurité UNCLASSIFIED

PART A (continued) / PARTIE A (suite)			
8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? If Yes, indicate the level of sensitivity: Dans l'affirmative, indiquer le niveau de sensibilité :	<input checked="" type="checkbox"/>	No Non	Yes Oui
9. Will the supplier require access to extremely sensitive INFOSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? Short Title(s) of material / Titre(s) abrégé(s) du matériel : Document Number / Numéro du document :	<input checked="" type="checkbox"/>	No Non	Yes Oui
PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)			
10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis			
<input checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	CONFIDENTIAL CONFIDENTIEL	SECRET SECRET	TOP SECRET TRÈS SECRET
TOP SECRET - SIGINT TRÈS SECRET - SIGINT	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET
SITE ACCESS ACCÈS AUX EMPLACEMENTS			
Special comments: Commentaires spéciaux : _____			
NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided. REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.			
10. b) May unscreened personnel be used for portions of the work? Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? If Yes, will unscreened personnel be escorted? Dans l'affirmative, le personnel en question sera-t-il escorté?	<input checked="" type="checkbox"/>	No Non	Yes Oui
PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)			
INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS			
11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises? Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/>	No Non	Yes Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets? Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?	<input checked="" type="checkbox"/>	No Non	Yes Oui
PRODUCTION			
11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises? Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?	<input checked="" type="checkbox"/>	No Non	Yes Oui
INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)			
11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data? Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/>	No Non	Yes Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency? Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?	<input checked="" type="checkbox"/>	No Non	Yes Oui



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Gouvernement du Canada

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PART C - (continued) / PARTIE C - (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions. Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production																
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE? No Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE? No Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



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PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme			
Name (print) - Nom (en lettres moulées) Maj Aingkar Sridaran		Title - Titre DAEME 4-10	Signature
Telephone No. - N° de téléphone 819-939-5844	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel aingkaran.sridaran@gmail.com	Date 20 Dec 2018
14. Organization Security Authority / Responsable de la sécurité de l'organisme			
Name (print) - Nom (en lettres moulées) Sasa Medjovic		Title - Titre Senior Security Analyst	Signature
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel sasa.medjovic@forces.gc.ca	Date 2018- Dec 31
15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?			No <input type="checkbox"/> Non <input type="checkbox"/>
Yes <input checked="" type="checkbox"/> Oui <input checked="" type="checkbox"/>			
16. Procurement Officer / Agent d'approvisionnement			
Name (print) - Nom (en lettres moulées)		Title - Titre	Signature
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
17. Contracting Security Authority / Autorité contractante en matière de sécurité			
Name Vikenti Gorokhovski		Title Contract Security Officer, Contract Security Division	Signature Gorokhovski, Vikenti
Telephone Tel/Tél 613-957-9337	E-mail address - Adresse courriel Vikenti		Date Date: 2019.01.08 11:22:42 -05'00'

ANNEX "E" - DND 626 – TASK AUTHORIZATION FORM



**TASK AUTHORIZATION
AUTORISATION DES TÂCHES**

All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.		Contract no. - N° du contrat _____
		Task no. - N° de la tâche _____
Amendment no. - N° de la modification _____	Increase/Decrease - Augmentation/Réduction _____	Previous value - Valeur précédente _____
To - À _____	TO THE CONTRACTOR You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task. Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract. À L'ENTREPRENEUR Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande. Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.	
Delivery location - Expédié à _____	_____ Date for the Department of National Defence pour le ministère de la Défense nationale	
Delivery/Completion date - Date de livraison/d'achèvement _____		
Contract Item no. N° d'article du contrat	Services	Cost Prix
	GST/HST TPS/TVH	
	Total	
APPLICABLE ONLY TO PWG&C CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract. NE S'APPLIQUE QU'AUX CONTRATS DE TP&GC: La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.		
_____ for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux		

ANNEX "F" - ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 6, clause 6.7.7, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.

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

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

ANNEX "G" - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\)-Labour's website](#).

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
 - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.

OR

- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions).