



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

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

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

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

**Issuing Office - Bureau de distribution**  
Defence Communications Division. (QD)  
11 Laurier St./11, rue Laurier  
Place du Portage, Phase III, 8C2  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Custom Battery Chargers	
<b>Solicitation No. - N° de l'invitation</b> W8486-163119/A	<b>Date</b> 2017-12-28
<b>Client Reference No. - N° de référence du client</b> 6000350612	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-027-26613	
<b>File No. - N° de dossier</b> 027qd.W8486-163119	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 12:00 PM</b> <b>on - le 2018-02-07</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Westcott, Karen	<b>Buyer Id - Id de l'acheteur</b> 027qd
<b>Telephone No. - N° de téléphone</b> (819) 420-1792 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE 25 Canadian Forces Supply Depot 6363 NOTRE DAME EST Montreal Quebec H1N 3V9 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Custom Battery Chargers	W8486	W8486	250	Each	\$	\$	See Herein	
2	OPTIONAL QTY - Custom Battery Char gers	W8486	W8486	500	Each	\$	\$	See Herein	

## **SMART BATTERY CHARGERS**

**THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT / DOCUMENT  
CONTIENT DES EXIGENCES RELATIVES À LA SÉCURITÉ**

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The bid solicitation is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Annex A - Statement of Work, Annex B – Basis of Payment/Requirement, Annex C - Security Requirements Check List, Appendix A to Annex C, Annex D – Contractor's Bidl, Annex E - DND 626 Task Authorization Form, Annex F - Form PWGSC-TPSGC 1111 Claim for Progress Payment, Annex G – Form PWGSC-TPSGC 450 Claim for Exchange Rate Adjustment, Annex H - Federal Contractors Program for Employment Equity - Certification.

### **1.2 Requirement**

The Contractor must provide the goods and services in accordance with Annex A – Statement of Work and Annex B, Basis of Payment/Requirement.

### **1.3 Security Requirement**

There are security requirements associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, Bidders should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

### **1.4 Trade Agreements**

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

### **1.5 The Federal Contractors Program (FCP)**

The Federal Contractors Program (FCP) for employment equity applies to this procurement; see Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the annex titled [Federal Contractors Program for Employment Equity - Certification](#).

**1.6 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.

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## **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 (2017-04-27) 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: 150 days

#### **2.1.1 SACC Manual Clauses**

A7035T (2007-05-25) List of Proposed Subcontractors

A9033T (2012-07-16) Financial Capability

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

### **2.2 Submission of Bids**

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

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### **2.3 Enquiries - Bid Solicitation**

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

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or



territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **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 calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (3 hard copies and 1 soft copy on CD)

Section II: Financial Bid (1 hard copy and 1 soft copy on CD)

Section III: Certifications and Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy 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 their bid:

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

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

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

#### **Section I: Technical Bid**

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in Annex A - Statement of Work on a paragraph-by-paragraph basis. Bidders must provide their responses and provide comments as to how they will carry out the work listed in Annex A.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Bidders should provide the page number and exact location of the brochures, document, and evidence of compliance, proof or any other material submitted with the Technical Bid to demonstrate compliance.

Bidders should provide their responses in its technical proposal as per the following:



1) A compliance statement ("Compliant" or "Non-compliant"). "Compliant" statement will be interpreted as meaning full agreement with the requirement, whereas a "Non-complaint" statement will be interpreted as meaning not in full agreement with the requirement and the proposal will be deemed non-responsive and not given any further consideration.

2) For mandatory requirements, statements such as "Read", "Comply with Intent", "Partial Compliance", "Noted" or the like will be considered as non-responsive; Paragraphs, elements and subparagraphs that convey information rather than a requirement must be marked with "Noted and Understood".

### **3.2 Section II: Financial Bid**

Bidders must submit their financial bid in accordance with Annex B - Basis of Payment/Requirement. The total amount of Applicable Taxes must be shown separately.

### **3.3 Exchange Rate Fluctuation Risk Mitigation**

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

### **3.4 Section III: Certifications**

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

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**PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION****4.1 Evaluation Procedures**

- (a) Bidders will be evaluated to determine if they comply with the entire requirement of the RFP including the technical and financial evaluation criteria.
- (b) Canada will use the Phased Bid Compliance Process described below.
- (c) An evaluation team composed of representatives of Canada and ADGA Group Consultants Inc. will evaluate the bids.
- (d) The definitions of mandatory requirements are as follows:

MANDATORY REQUIREMENTS: Bidders should note that all MANDATORY requirements are identified specifically with the word "shall", "must", "will", "mandatory". In the case where a MANDATORY item cannot be or is not complied with, the Bid shall receive any further consideration.

- (e) Compliance with all of the mandatory provisions of the RFP, including, without limitation, all Annexes, Attachments and the terms and conditions applicable to any resulting contract is mandatory.

**4.2 Phased Bid Compliance Process (PBCP)****4.2.1 General**

- a) Canada is conducting the Phased Bid Compliance Process described below for this requirement.
- b) Notwithstanding any review by Canada at Phase I or II of the Phased Bid Compliance Process, 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 PHASED BID COMPLIANCE PROCESS 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.

- c) 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.

- d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2017-04-27) 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).
- e) 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.

#### **4.2.2 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.

#### **4.2.3 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 Phased Bid Compliance Process. Mandatory technical criteria that are not identified in the solicitation as being subject to the Phased Bid Compliance Process, 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.

#### **4.2.4 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.

### **4.3 Technical Evaluation**

#### **4.3.1 Mandatory Technical Criteria**

Mandatory technical evaluation criteria are included in Appendix 1.

The Phased Bid Compliance Process will apply to all mandatory technical criteria.

#### **4.3.2 Point Rated Technical Criteria**

Point rated technical evaluation criteria are included in Appendix 1.

The Phased Bid Compliance Process will apply to all pointed rated technical criteria.

#### 4.4 Financial Evaluation

4.4.1 Financial Bids will be evaluated in Canadian currency. Prices submitted in foreign currency will be converted to Canadian dollars based on the exchange rate provided by the Bank of Canada at 16:30 Eastern Time (ET) on the date of the RFP closing date and the resulting conversion values will be used for the evaluation.

4.4.3 Financial bids will be evaluated based on prices received from Bidders set out in Annex B. No other pricing or financial information, if provided, will be evaluated.

#### 4.5 Basis of Selection - Highest Combined Rating of Technical Merit and Price

4.5.1 To be declared responsive, a bid must:

- a. comply with all the requirements of the bid solicitation; and
- b. meet all mandatory criteria; and
- c. obtain the required minimum of 11 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 35 points.

4.5.2 Bids not meeting a. or b. or c. will be declared non-responsive.

4.5.3 The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 35% for the technical merit and 65% for the price.

4.5.4 To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 35%.

4.5.5 To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 65%.

4.5.6 For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

4.5.7 Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 35/65 ratio of technical merit and price, respectively. The total available points equals 35 and the lowest evaluated price is \$500,000 (65).

#### Basis of Selection - Highest Combined Rating Technical Merit (35%) and Price (65%)

	Bidder 1	Bidder 2	Bidder 3
<b>Overall Technical Score</b>	25/35	20/35	30/35
<b>Bid Evaluated Price</b>	\$550,000.00	\$500,000.00	\$600,000.00



<b>Calculations</b>	<b>Technical Merit Score</b>	25/35 X 35 = 25.00	20/35 X 35 = 20.00	30/35 X 35 = 30.00
	<b>Pricing Score</b>	50/55 x 65 = 59.09	50/50 x 65 = 65.00	50/60 x 65 = 54.17
<b>Combined Rating</b>		84.09	85.00	84.17
<b>Overall Rating</b>		3rd	1st	2nd

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## 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.

### 1 Certifications Required with the Bid

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

#### 1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

### 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 specified will render the bid non-responsive.

#### 2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### 2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

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 [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.

**PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS****1 Security Requirements**

- 1.1 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 7 - 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 7 - 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;
- 1.2 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.
- 1.3 For additional information on security requirements, Bidders should refer to the [Industrial Security Program \(ISP\)](http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html) of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website

**2 Financial Capability**

SACC Manual clause A9033T (2012-07-16) Financial Capability

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**PART 7 - RESULTING CONTRACT CLAUSES**

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

**1. Statement of Work**

The Contractor must perform the Work in accordance with Annex A – Statement of Work and the Contractor's technical bid entitled \_\_\_\_\_, dated \_\_\_\_\_.

**2. Standard Clauses and Conditions**

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

2030 (2016-04-04), General Conditions – Goods (Higher Complexity) apply to and form part of the Contract.

**2.1 Supplemental General Conditions**

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

**3. Security Requirements****3a Security Requirements for Canadian Supplier**

1. 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).
2. The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.
3. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
4. The Contractor/Offeror must comply with the provisions of the:
  - a) Security Requirements Check List and security guide (if applicable), attached at Annex C;
  - b) *Industrial Security Manual* (Latest Edition).

**3b Security Requirements for Foreign Supplier**

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 (IIISD), PWGSC. The Canadian DSA is the authority for confirming **Contractor / Subcontractor** compliance with the security requirements for foreign suppliers. The following security requirements apply to the Foreign recipient **Contractor / Subcontractor** 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 / subcontract**.

1. The Foreign recipient **Contractor / Subcontractor** 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>.
2. The Foreign recipient **Contractor / Subcontractor** must provide proof that they are incorporated or authorized to do business in their jurisdiction.
3. The Foreign recipient **Contractor / Subcontractor** shall 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 / Subcontractor** in an Attestation Form, to provide confirmation of compliance and authorization for services to be performed.
4. The Foreign recipient **Contractor / Subcontractor** must identify an authorized Contract Security Officer (CSO) and an Alternate (ACSO) (if applicable) to be responsible for the overseeing of the security requirements, as defined in this **contract / subcontract**. This individual will be appointed by the proponent Foreign recipient **Contractor's / Subcontractor'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.
5. The Foreign recipient **Contractor / Subcontractor** shall not permit access to Canadian restricted sites, except to its personnel subject to the following conditions:
  - a. Personnel have a need-to-know for the performance of the **contract / subcontract**;
  - b. 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. The approved verifications for the required Criminal Record Check and Background Verification are listed at Appendix A;
  - c. The Foreign recipient **Contractor / Subcontractor** shall ensure that personnel provide consent to share results of the Criminal record Background Check with the Canadian DSA and other Canadian Government Officials, if requested; and
  - d. The Government of Canada reserves the right to deny access to Canadian restricted sites to a Foreign recipient **Contractor / Subcontractor** for cause.
6. Subcontracts which contain security requirements are **NOT** to be awarded without the prior written permission of the Canadian DSA.
7. The foreign recipient **Contractor / Subcontractor** visiting Canadian Government, under this contract, will submit a Request for Site Access to the Departmental Security Officer of the Department of National Defence.
8. In the event that a Foreign recipient **Contractor / Subcontractor** 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.
9. The Foreign recipient **Contractor / Subcontractor** must comply with the provisions of the Security Requirements Check List attached at Appendix A.

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#### 4. Term of Contract

##### 4.1 Period of the Contract

The period of the contract is defined as being from the date of contract award until all services and deliverables have been delivered and accepted, all warranties have expired, and no outstanding warranty issues exist.

##### 4.2 Delivery Date

It is highly desired to have all the firm deliverables received no later than\_\_\_\_\_.

It is highly desired to have the first \_\_\_\_\_ battery chargers delivered no later than (***X days after contract award, exact date will be inserted at contract award***) and to have all other firm deliverables received no later than (***exact date will be inserted at contract award***).

##### 4.3 Option to purchase Optional Quantities

The Contractor grants to Canada the irrevocable option to acquire the goods and or services described in Annex A, Statement Of Work and Annex B, Basis of Payment, of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

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

##### 4.4 Option to Extend the Period of 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 periods 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 any time 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.

#### 5. Authorities

##### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Ms. Karen Westcott  
Supply Team Leader  
Public Services and Procurement Canada  
Acquisitions Branch (LAEPSS)  
Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC K1A 0S5  
Government of Canada

Telephone: (343) 998-5234  
E-mail: [karen.westcott@tpsgc-pwgsc.gc.ca](mailto:karen.westcott@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.*

## **5.2 Technical Authority**

The Technical Authority for the Contract is:

*To be inserted at Contract award.*

*The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the 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.*

## **5.3 Procurement Authority**

The Procurement Authority for the Contract is:

*To be inserted at Contract award.*

*The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the financial and technical content of the Work under the Contract. Technical matters may be discussed with the Procurement Authority; however the Procurement Authority has no authority to authorize changes to the scope of the Work or the pricing in the Basis of Payment (Annex C). Changes to the scope of the Work or the Basis of Payment can only be made through a contract amendment issued by the Contracting Authority.*

## **5.4 Contractor's Representative**

*To be inserted at Contract award.*

Bidders to provide name, title, telephone number and email address.

## **6 Task Authorization**

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.

### **6.1 Task Authorization Process**

- 6.1.1. The Technical Authority will provide the Contractor with a description of the task using the DND 626, Task Authorization Form specified in Annex E.
- 6.1.2 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 (bases) and methods of payment as specified in the Contract.



- 6.1.3 The Contractor must provide the Procurement/Contracting Authority (depending on dollar value), within ten (10) 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.

- 6.1.4 The Contractor must not commence work until a TA authorized by the Procurement/Contracting Authority 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.

## **6.2 Task Authorization Limit**

The Procurement Authority may authorize individual task authorizations up to a limit of \$25,000.00, Applicable Taxes included, inclusive of any revisions.

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

## **6.3 Canada's Obligation - Portion of the Work - Task Authorizations**

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

## **6.4 Periodic Usage Reports - Contracts with Task Authorizations**

The Contractor must compile and maintain records on its provision of services to the federal government under authorized Task Authorizations issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "nil" report.

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

The quarterly periods are defined as follows:

1st quarter: January 1 to March 31;

2nd quarter: April 1 to June 30;

3rd quarter: July 1 to September 30; and

4th quarter: October 1 to December 31.

The data must be submitted to the Contracting Authority no later than thirty (30) calendar days after the end of the reporting period.

### **6.4.1 Reporting Requirement - Details**

A detailed and current record of all authorized tasks must be kept for each contract with a task authorization process. This record must contain:

#### **(a) For each authorized task**

- i. the authorized task number or task revision number(s);
- ii. a title or a brief description of each authorized task;
- iii. the total estimated cost specified in the authorized Task Authorization (TA) of each task, exclusive of Applicable Taxes;
- iv. the total amount, exclusive of Applicable Taxes, expended to date against each authorized task;

- v. the start and completion date for each authorized task; and
- vi. the active status of each authorized task, as applicable.

**(b) For all authorized tasks:**

- i. the amount (exclusive of Applicable Taxes) specified in the contract (as last amended, as applicable) as Canada's total liability to the contractor for all authorized TAs; and
- ii. the total amount, exclusive of Applicable Taxes, expended to date against all authorized TAs.

**7. Payment**

**7.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices as specified in Annex B – Basis of Payment, Customs duties are excluded and Applicable Taxes are extra, if applicable.

For the firm price portion of the Work only, 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.

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

**7.2 Limitation of Expenditure – Portion of Work – Task Authorization**

Canada's total liability to the Contractor under the Contract must not exceed \$ \_\_\_\_\_. Customs duties are included 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:

- a. when it is 75 percent committed, or
- b. four (4) 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, whichever comes first.

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.

**7.3 Method of Payment**

**7.3.1 H1001C (2008-05-12) Multiple Payments for firm and optional deliverables outlined in Annex B– Basis of Payment**

**7.3.2 Limitation of Expenditure – Portion of Work - Task Authorizations – Progress Payment**

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 100 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 amount claimed is in accordance with the basis of payment;
  - c. the total amount for all progress payments paid by Canada does not exceed \$\_\_\_\_\_, customs duties and Applicable Taxes are included;
  - d. all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.
2. 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.
3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

#### **8. Exchange rate fluctuation adjustment**

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

$$\text{Exchange rate adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$
 where formula variables correspond to:

##### **FCC**

Foreign currency component (per unit)

##### **Qty**

quantity of units

##### **$i_0$**

Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]).

The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date.

The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

##### **$i_1$**

Exchange rate for adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]).

The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.

- a. The ERA for goods will be the Bank of Canada rate on the date the goods were delivered.

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

## **9. Invoicing Instructions**

### **9.1 Multiple Payment**

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

Each invoice must be supported by:

- a. a copy of the release document and any other documents as specified in the Contract; and/or
  - b. equivalent substantiation
2. Each invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the Procurement Authority for certification and payment to:  
  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: DLP 5
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

### **9.2 Progress Payment**

1. 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;

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;
  - c. a copy of the monthly progress report.
2. 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 Technical Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.
  3. The Technical 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.
  4. The Contractor must not submit claims until all work identified in the claim is completed.

## 10 Shipping Instructions

### 10.1a Shipping Instructions - Foreign-based Contractors

1. Delivery will be FCA Free Carrier at \_\_\_\_\_ (*insert the named place at contract award*) Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

***(Details of DND Inbound Logistics Coordination Center will be inserted at contract award when the location of the Contractor is known.)***

3. The Contractor must provide the following information to the DND Inbound Logistics contact when arranging for shipment:
  - a. the Contract number;
  - b. consignee address (if multiple addresses, items must be packaged and labeled separately with each consignee address);
  - c. description of each item;
  - d. the number of pieces and type of packaging (e.g. carton, crate, drum, skid);
  - e. actual weight and dimensions of each piece type, including gross weight;
  - f. copy of the commercial invoice (in accordance with clause C2608C, section 4, of the Standard Acquisition Clauses and Conditions Manual) or a copy of the Canada Border Services Agency form CI1 Canada Customs Invoice (PDF 429KB) - (Help on File Formats);
  - g. Schedule B codes (for exports) and the Harmonized Tariff Schedule codes (for imports);
  - h. North American Free Trade Agreement Certificate of Origin (in accordance with clause C2608C, section 2) for the U.S. and Mexico only;
  - i. full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International

Maritime Dangerous Goods Code, or International Air Transport Association regulations or the applicable Canadian [Dangerous Goods Shipping Regulations](#) and a copy of the material safety data sheet.

4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, the marking of each piece with a Transportation Control Number and customs documentation.
5. The Contractor must not ship goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time that are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

#### **10.1b Shipping Instructions - Canadian-based Contractors**

1. Delivery will be FCA Free Carrier at \_\_\_\_\_ (***Insert the named place at contract award***) Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

Inbound Logistics Co-ordination Center (ILCC)  
Telephone: 1-877-877-7423 (toll free)  
Facsimile: 1-877-877-7409 (toll free)  
E-mail: [ILHQOttawa@forces.gc.ca](mailto:ILHQOttawa@forces.gc.ca)

3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
  - a. the Contract number;
  - b. consignee address (for multiple addresses, items must be packaged and labelled separately with each consignee address);
  - c. description of each item;
  - d. the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
  - e. actual weight and dimensions of each piece type, including gross weight;
  - f. full details of dangerous goods/hazardous products, as required for the applicable mode of transportation, signed certificates for dangerous goods/hazardous products as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian [Transportation of Dangerous Goods Regulations](#), and a copy of the safety data sheet in English and French.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, and the marking of each piece with a Transportation Control Number.

5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either 30 days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or 30 days following the delivery date specified in the Contract, whichever is later.

#### **10.2 Additional Package Markings - Identical**

1. The Contractor must ensure that in addition to the required interior and exterior package markings, the following information is provided:
  - a. manufacturer's name;
  - b. manufacturer's part number;
  - c. description;
  - d. quantity/unit of issue;
  - e. date of manufacture;
  - f. contract number
2. These markings must be applied and positioned in accordance with Canadian Forces Packaging Specification D-LM-008-002/SF-001.

#### **10.3 Packaging Requirement using Specification D-LM-008-036/SF-000**

The Contractor must prepare the four (4) Interrogator Sets 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.

#### **10.4 Release Documents – Distribution**

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

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:

*National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: \_\_\_\_\_*

- e. One (1) copy to the Quality Assurance Representative;

- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:

*DQA/Contract Administration  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca).*

## **11 Inspection and Acceptance**

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## **12 Insurance**

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

## **13 SACC Manual Clauses**

A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)  
A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)  
A9006C (2012-07-16) Defence Contract  
B2001C (2014-06-26) Labelling  
B4042C (2008-05-12) Identification Markings  
B4061C (2008-05-12) North Atlantic Treaty Organization Codification – Data Requirements  
B7500C (2006-06-16) Excess Goods  
C0705C (2010-01-11) Discretionary Audit  
C2000C (2007-11-30) Taxes - Foreign-based Contractor  
C2604C (2013-04-25) Customs Duties, Excise Taxes and Applicable Taxes – Non Resident  
C2605C (2008-05-12) Canadian Customs Duties and Sales Tax – Foreign-based Contractor  
C2606C (2008-05-12) Custom Duties and Excise Taxes - Exemption  
C2610C (2007-11-30) Custom Duties – Department of National Defence - Importer  
C2611C (2007-11-30) Custom Duties – Contractor Importer  
C2800C (2013-01-28) Priority Rating  
C2801C (2014-11-27) Priority Rating - Canadian Contractors  
C6000C (2011-05-16) Limitation of Price



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D0050C (2007-05-25)	End User Certificate
D2017C (2008-05-12)	Bar Coding – Material Marking
D2025C (2013-11-06)	Wood Packaging Materials
D3012C (2014-06-26)	Preparation for Delivery – Canadian Forces Preservation, Packaging and Packing
D3013C (2007-11-30)	Preparation for Delivery – Canadian-based Contractor
D5510C (2014-06-26)	Quality Assurance Authority (DND) - Canadian-based Contractor
D5515C (2010-01-11)	Quality Assurance Authority (Department of National Defence) - Foreign- based and United States Contractor
D5545C (2010-08-16)	ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)
D5604C (2008-12-12)	Release Documents (DND) - Foreign-based Contractor
D5605C (2010-01-11)	Release Documents (DND) - United States-based Contractor
D5606C (2012-07-16)	Release Documents (DND) - Canadian-based Contractor
D6010C (2007-11-30)	Palletization
D9002C (2007-11-30)	Incomplete Assemblies

#### **14 Certifications and Additional Information**

##### **14.1 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.

##### **14.2 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.

#### **15 Applicable Laws**

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

#### **16 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 supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (d) the general conditions 2030 (2016-04-04), General Conditions - Higher Complexity - Goods;
- (e) Annex A, Statement of Work;
- (f) Annex B, Basis of Payment/Requirement;
- (g) Annex C, Security Requirements Check List;
- (h) the signed Task Authorizations (including all of its annexes, if any);
- (i) Annex F - Claim for Progress Payment;
- (j) Annex G, Claim for Exchange Rate Adjustments; and
- (k) Annex D, Contractor's bid dated \_\_\_\_\_ .

**ANNEX "A"**

**STATEMENT OF WORK**

(See attached)

**ANNEX “B”**

**BASIS OF PAYMENT/REQUIREMENT**

(See attached)

**ANNEX “C”**

**SECURITY REQUIREMENTS CHECK LIST**

(See attached)

**APPENDIX A to ANNEX C,**

The approved verifications for the required Criminal Record Check and Background Verification are listed herein:

The Foreign recipient **Contractor /Subcontractor** must perform a security screening of all its personnel who will need access to Canadian restricted sites:

**a) Identity Check:**

- i. Copies of two of valid original pieces of government issued identity documentation, one of which must include a photo;
- ii. Surname (Last Name);
- iii. Full given names;
- iv. All other names used (Aliases)
- v. Gender;
- vi. Date of birth;
- vii. Place of birth (city, province/state/region, and country); and
- viii. Citizenship(s).

**b) Residency Check:**

- i. The last five (5) years of residency history starting from most recent with no gaps in time. Indicate if the person has resided in another country within the last five (5) years.

**c) Employment History Check:**

- ii. The last five (5) years of employment history starting from most recent with no gaps in time.

**d) Criminal Record Check:**

- i. Proof of criminal record check with favourable results for each country the person has resided in during the last five (5) years.

**ANNEX "D"**

**CONTRACTOR'S BID**

**ANNEX “E”**

**DND 626 TASK AUTHORIZATION FORM**

(See attached)



**ANNEX “F”**

**FORM PWGSC-TPSGC 1111 CLAIM FOR PROGRESS PAYMENT**

(See attached)

**ANNEX “G”**

**FORM PWGSC-TPSGC 450 CLAIM FOR EXCHANGE RATE ADJUSTMENT**

(See attached)

**ANNEX "H" to PART 5 OF THE BID SOLICITATION****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)

**APPENDIX 1****BID EVALUATION MATRIX**

(See attached)

ANNEX A

STATEMENT OF WORK

FOR THE  
ACQUISITION AND SUPPORT  
OF  
SMART BATTERY CHARGERS

VERSION 7T

28-12-2017



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 shall 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. The purpose of this Statement of Work (SOW) is to detail the work for the acquisition and support of smart battery chargers. This SOW defines the Smart Battery Charger requirement and the associated technical support requirement.

### **1.2. Background**

- 1.2.1. The Canadian Armed Forces (CAF) will be fielding an Integrated Soldier System - Suite (ISS-S) with deployed task forces, at home and abroad. The ISS-S users will require a continuous supply of batteries in order to complete their tasks. One mode of operation is to recharge the ISS-S battery at a stationary position and the other is in a Canadian Armed Forces land vehicle.
- 1.2.2. The Contractor must provide the required quantities of Smart Battery Chargers along with limited in-service support.

### **1.3. Concept of Operations**

- 1.3.1. In order to reduce the use of non-rechargeable batteries, the Department of National Defence (DND) intends to use multiple chargers to replenish power to rechargeable batteries required for the operation of the ISS-S.
- 1.3.2. The chargers will be operated at base camps, Forward Operating Bases (FOBs) or in vehicles. They will also be used to continuously charge significant amounts of batteries which will then be utilized by the soldiers on an as and when required basis.
- 1.3.3. The chargers will also be transported by soldiers and set up on an as and when required basis to charge batteries when working in forward operating areas. Forward areas can consist of rough terrain, snow, paved roads, etc.
- 1.3.4. The chargers should maximize portability and rapid charge capability. The chargers may be used in parked vehicles, vehicles on the move, or stationary in the outside environment under adverse weather conditions.

## **2. Definitions**

### **2.1. General**

- 2.1.1. The definitions described below apply to this SOW and the technical documents.

- 2.1.2. Analysis and Test Reports must be prepared in the Contractor's format and be signed by the Contractor.

## **2.2. Description**

- 2.2.1. A Description is a written account of a person, object or event.

## **2.3. Analysis and Test Reports**

- 2.3.1. An Analysis Report is a document that clearly explains how the product meets a specific requirement. Support for the validation of the Analysis Report's findings must include one or more of the following:

- a) calculations;
- b) drawings;
- c) data sheets;
- d) photos; and
- e) agreed to standards.

When standards are used as validation, reference will be made to applicable article in the agreed to standard. At a minimum, the Analysis Report must contain the following items:

- a) A Cover Page displaying the title of the Analysis Report, the date of issuance, the revision number and the name of the company; and
- b) A section stating the goal of the Analysis; and
- c) A section detailing how the product meets a specific requirement. Support for the analysis may be found throughout this section or referenced in annexes.

- 2.3.2. A Test Report is a document that records data obtained from an experiment, and shows the comparison of test results with test objectives. A Test Report must contain the following:

- a) A section detailing the test objectives; and
- b) A section detailing the test procedures; and
- c) A section detailing the calibration dates of all measurement devices used for testing; and
- d) Photos of the lab setup; and
- e) Before and after photos of the product under testing (if applicable); and
- f) The serial number of the product under testing; and
- g) Test results from either from the Contractor's qualified testing facility or from a qualified third party testing facility; and

- h) A section detailing the comparison of test results with test objectives.

## **2.4. Product Acceptance**

- 2.4.1. The Product Acceptance consists of a series of tests to evaluate the compliance of each requirement described in Appendix 1 – Bid Evaluation Matrix.

## **2.5. Certificate of Compliance**

- 2.5.1. A Certificate of Compliance is a document that certifies that the product meets a specific standard. The certificate must be issued by a qualified Third Party Testing Facility or Agency. The certificate must contain the following information:

- a) Name of the Third Party Testing Facility or Agency; and
- b) Certificate number; and
- c) Date of issuance; and
- d) Name or model number of the product; and
- e) Applicable standards, or sections, or methods; and
- f) Signature from a member of the Third Party Testing Facility or Agency.

## **3. Applicable Documents**

### **3.1. Introduction**

- 3.1.1. The documents listed in this Section form part of the SOW and Specifications to the extent specified. Unless otherwise specified, the issue or amendment of documents effective for this contract must be those in effect on the date of contract award.

### **3.2. Canada Supplied Publications**

- 3.2.1. D-02-002-001/SG-001, Identification Marking of Canadian Military Property
- 3.2.2. D-01-400-002/SF-000, Specification for Levels of Engineering Drawings and Associated Lists

### **3.3. Other Publications**

- 3.3.1. MIL-STD-1275E, Interface Standard: Characteristics of 28 Volt DC Electrical Systems in Military Vehicles, available at [everyspec.com/MIL-STD](http://everyspec.com/MIL-STD)



- 3.3.2. Smart Battery Charger Specification Revision 1.1, available at [www.sbs-forum.org](http://www.sbs-forum.org)
- 3.3.3. Smart Battery Data Specification Revision 1.1, available at [www.sbs-forum.org](http://www.sbs-forum.org)
- 3.3.4. MIL-STD-810G with change 1, Test Method Standard: Environmental Engineering Considerations and Laboratory Tests, available at [everyspec.com/MIL-STD](http://everyspec.com/MIL-STD)
- 3.3.5. MIL-STD-1472G, Design Criteria Standard: Human Engineering, available at [everyspec.com/MIL-STD](http://everyspec.com/MIL-STD)
- 3.3.6. MIL-W-81044B with all supplements and amendments, Military Specification: Wire, Electric, Crosslinked Polyalkene, Crosslinked Alkane-Imide Polymer, or Polyarylene Insulated, Copper or Copper Alloy, available at [everyspec.com/MIL-STD](http://everyspec.com/MIL-STD)
- 3.3.7. UBM-5172 Rev: L, Ultralife UBBL06 (Li-145) Technical Datasheet available at [www.ultralifecorporation.com](http://www.ultralifecorporation.com)
- 3.3.8. Travel Directive July 2017, National Joint Council, available at [www.njc-cnm.gc.ca/directive/d10/v238/en](http://www.njc-cnm.gc.ca/directive/d10/v238/en)

## **4. Operational Characteristics**

### **4.1. Special Tools and Test Equipment**

- 4.1.1. The charger must not require tools for operation.
- 4.1.2. The charger must not require tools for transportation.

### **4.2. Transportation, Storage, and Use**

- 4.2.1. The charger must have an integrated and permanently attached transportation case that is equipped with a lid.
- 4.2.2. The integrated transportation case's lid must fasten to the charger within 60 seconds by a single operator wearing winter military gloves. The NATO Stock Number for the gloves is 8415-21-920-8964.
- 4.2.3. When fastened, the integrated transportation case lid must not open unless done by human intervention.
- 4.2.4. The charger must charge batteries with the integrated transportation case lid opened.

- 4.2.5. The charger must charge batteries with the integrated transportation case lid closed.
- 4.2.6. All cables must be contained within the integrated transportation case.
- 4.2.7. The integrated transportation case of the charger must be stackable.
- 4.2.8. The integrated transportation case of the charger must support at least the weight of a pile of stackable items of similar weight and size up to 4 feet tall, to allow pallet shipping. The weight of the stackable items does not include the weight of the batteries.

## **5. Requirements**

### **5.1. Technical and Performance Specifications**

#### **5.1.1. Power Inputs**

- 5.1.1.1. At a minimum, the charger must accept and use Alternating Current (AC): 90V AC to 260V AC, 50Hz to 60Hz and drawing 15Amps maximum to charge the batteries. The nominal voltage for an AC power source is 120V AC.
- 5.1.1.2. The charger must accept and use Direct Current (DC). The charger must operate from at least 8V DC to 36V DC and drawing 15Amps maximum. The nominal voltage and current for a DC power source is 28V DC.
- 5.1.1.3. The power converter that is handling the mandatory supported inputs as defined in 5.1.1.1 and 5.1.1.2 must be integrated and permanently attached to the charger.
- 5.1.1.4. Should the charger be current fault protected, it must be protected by a resettable circuit breaker.
- 5.1.1.5. The AC power cable :
  - a) must be detachable; and
  - b) must be terminated with a plug connector type NEMA 5-15; and
  - c) must not disconnect from the charger with a pulling force of less than 15 lbs; and
  - d) must be provided, one (1) cable per charger; and
  - e) must be provided in a length of 1800mm +/- 10%.
- 5.1.1.6. The charger must be DC powered through a power connector that mates with the MIL-DTL-26482 series II CONN PLUG, 14-5SN type connector. The connector pin out Interface Control Document (ICD) and keying will be provided after contract award.

5.1.1.7. The charger DC power cable:

- a) must be terminated with connector MIL-DTL-26482 series II CONN PLUG 14-5SN on one end and with CONN PLUG 14-4PN on the other end (The connector pin out ICD and keying will be provided after contract award); and
- b) must be provided, one (1) cable per charger; and
- c) must be provided in a length of 1800mm +/- 10%.

5.1.1.8. The charger must endure vehicular starting disturbances in accordance with MIL-STD-1275E.

5.1.1.9. Protective Covers

- a) The charger must include a Protective Cover for every input connector; and
- b) All Protective Covers must be removable; and
- c) All Protective Covers must be attached to the battery charger physical device.

## 5.1.2. **Charging**

5.1.2.1. The charger must safely charge batteries. Safely means that no damage is induced to the user, the battery life cycle, and the charger.

5.1.2.2. The charger must charge Ultralife Li-145(UBBL06), Li-175(UBBL06-01), Li-200(UBBL06-02), and Li-80(UBBL08) batteries.

5.1.2.3. The charger must charge the same type of batteries defined in 5.1.2.2 from other vendors.

5.1.2.4. The charger must automatically charge all loaded batteries that may be at a different Relative State of Charge (RSOC), without user intervention, during the charge cycle until the batteries have finished charging.

5.1.2.5. The charger must accept at least 8, but no more than 12, simultaneously connected batteries defined in section 5.1.2.2, and charge them from 0% to 100% RSOC using one power source. The number of batteries handled by the charger at once will define the number of slots for requirements 5.1.8.9 and 5.1.8.10.

5.1.2.6. With the nominal AC power source defined in 5.1.1.1, the maximum charge time to 100% RSOC, for a fully loaded charger with Ultralife Li-145(UBBL06) batteries at 0% RSOC, must not exceed 8 hours total.

- 5.1.2.7. With the nominal DC power source defined in 5.1.1.2, the maximum charge time to 100% RSOC, for a fully loaded charger with Ultralife Li-145(UBBL06) batteries at 0% RSOC, must not exceed 17 hours total.
- 5.1.2.8. With the nominal AC power input defined in 5.1.1.1, a fully loaded charger with Ultralife Li-145 (UBBL06) batteries at 0% RSOC should charge all loaded batteries to 80% RSOC as quickly as possible without exceeding the maximum charge rate laid out in 5.1.2.9 and without prejudice to requirement 5.1.2.6.
- 5.1.2.9. Regardless of the charging mode, the charger must use a maximum charge rate such that rechargeable batteries will store a charge of at least 80% of their rated capacity in amp-Hr after 200 charge/discharge cycles.
- 5.1.2.10. The charger must communicate with the control circuits of each individual loaded battery using the Smart Battery Charger specification Revision 1.1.
- 5.1.2.11. The charger should bring a loaded battery defined at 5.1.2.2 from low voltage protection (also known as shutdown) state back to normal operation.
- 5.1.2.12. Scavenger Mode
- a) The charger should have a scavenger mode where the charger drains non rechargeable batteries to 0% RSOC in order to charge rechargeable batteries when there are no AC or DC power sources available. The NATO stock number (NSN) for the non-rechargeable batteries is 6135-01-583-8973; and
  - b) If the scavenger mode is achieved with the use of cable(s) then one set of cable(s) must be provided per charger delivered; and
  - c) Each cable part of the cable set must be removable.
- 5.1.2.13. US Conformal Battery
- a) The charger must provide at least one port to charge the US conformal battery NSN: 6140-01-622-5688. It is acceptable to share the electronic circuitry with an existing battery slot defined in section 5.1.2.5. This port does not count in the number of slot counts used for the requirements 5.1.8.9 and 5.1.8.10; and
  - b) If the charging of the US conformal battery is achieved with the use of cable(s) then one set of cable(s) must be provided per charger delivered; and
  - c) Each cable part of the cable set must be removable.

The requirements in sections 4.2.4, 4.2.5, 5.1.8.1, and 5.1.8.2 do not apply for the conformal battery.

5.1.2.14. The charger must meet the requirements of a level 2 or a level 3 smart battery charger in accordance with the Smart Battery Charger Specification Revision 1.1.

5.1.3. **Charge Controller**

5.1.3.1. The charger must automatically recognize the type of battery connected if the charger can charge multiple battery chemistries.

5.1.3.2. The charger must not overcharge a battery.

5.1.3.3. The charger must stop charging a battery when the battery's temperature is outside its pre-set allowable limit, unless the charger can safely continue to charge.

5.1.4. **Fault Detection Features**

5.1.4.1. Non Rechargeable Batteries

- a) Either the charger must not accept non rechargeable batteries; or
- b) The charger must detect non rechargeable batteries, prevent the initiation of charging process and also notify the user in accordance with the indicators specification laid out in 5.1.6.

5.1.4.2. Incompatible Rechargeable Batteries

- a) The charger must detect rechargeable batteries that are incompatible with the charger; and
- b) The charger must prevent the initiation of charging process; and
- c) The charger must also notify the user in accordance with the indicators specification laid out in 5.1.6.

5.1.4.3. The charger must notify the user in accordance with the indicators specification laid out in 5.1.6 when the battery's temperature is outside of its temperature range indicated in 5.1.3.3.

5.1.4.4. Defective Batteries

- a) The charger must detect a defective battery; and
- b) The charger must prevent the charge cycle to start; and
- c) The charger must also notify the user in accordance with the indicators specification laid out in 5.1.6.

5.1.5. **Firmware**

5.1.5.1. The charger must have upgradeable firmware without requiring any change in hardware.

### 5.1.6. Indicators

5.1.6.1. For each battery slot, the charger must visually indicate the following information to the user without the use of special tools or external equipment (e.g. computer or hand held device):

- a) The RSOC with at least 3 measurement gradients (ex. 'low', 'medium' and 'high'); and
- b) Whether the battery is currently on a charge cycle; and
- c) Whether the battery is waiting for a charge cycle (if applicable); and
- d) That the battery has reached 80% RSOC; and
- e) That the battery is 'ready for use' that means that it is charged to 100% RSOC; and
- f) Each fault detection feature laid out in 5.1.4.

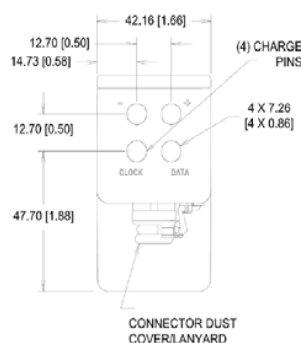
5.1.6.2. If there is a fault, the indication must be displayed within 15 seconds after the insertion of the battery into the charger.

5.1.6.3. If the indication information is coded (e.g. light blinks), the instructions to decode must be displayed on the charger and remain visible while the charger is in use.

5.1.6.4. If the charger can indicate faults by audible sounds, then the charger must have the option to turn off the audible sounds.

### 5.1.7. Outputs

5.1.7.1. Batteries must connect directly to the charger via the (4) charge pins at the end of the battery, or connected through the battery connector without utilisation of cords, cables or pigtail adaptors. See Figure 1.



**Figure 1: Battery charge pins location**

5.1.7.2. The battery connectors on the charger must have a lifetime of at least 2,000 mating cycles without requiring maintenance.

### 5.1.7.3. USB Ports

- a) The charger must be equipped with at least 4 USB type A ports; and
- b) Each USB Ports must be compatible with tablets, smartphones, and other like devices for charging; and
- c) Each USB Ports must provide at least 1.2A; and
- d) Each USB Ports must include a protective cover; and
- e) Each USB Port Protective Covers must be removable; and
- f) Each USB Port Protective Covers must be attached to the battery charger physical device.

The USB Ports do not count in the number of slot counts used for the requirements 5.1.8.9 and 5.1.8.10.

### 5.1.8. **Physical**

- 5.1.8.1. The battery charger must provide individual snug fitting slots to hold the batteries in place to prevent inducing mechanical stress to the battery connectors while the integrated transportation case lid is open.
- 5.1.8.2. The battery charger must provide a mechanism to securely hold the batteries in place to prevent the batteries from moving and damaging the connectors while the battery charger is upside down. The integrated transportation case lid could be part of the mechanism to secure the batteries in place.
- 5.1.8.3. Except for the lid, the conformal battery cable(s), the AC and DC power cables, and the scavenger mode cable(s), the battery charger must not include any removable parts.
- 5.1.8.4. All cables not utilized during the charging process must be stowed within the charger while batteries are being charged.
- 5.1.8.5. Stowed cables must not prevent the charger from charging the batteries with the integrated transportation case lid closed.
- 5.1.8.6. The volume of the battery charger must not exceed 80 000 cubic centimeter.
- 5.1.8.7. The maximum value for a dimension (height, width or depth) of the charger must not exceed 762 mm.
- 5.1.8.8. The weight of the battery charger must not exceed 23kg. The weight includes the battery charger and all its cables. The weight of the batteries are excluded from the weight of the battery charger.
- 5.1.8.9. The battery charger provided should be optimized to minimize the volume per slot ratio.

- 5.1.8.10. The battery charger provided should be optimized to minimize the weight per slot ratio.

## **6. Operating Environment**

### **6.1. High Temperature**

- 6.1.1. The charger must operate within normal performance limits after undergoing a temperature test up to +49 °C in accordance with MIL STD 810G, Method 501.6, Procedure II (Operation) to +49 °C.
- 6.1.2. The charger must operate within normal performance limits after undergoing a storage at a temperature up to +70 °C in accordance with MIL STD 810G, Method 501.6, Procedure I (Storage) to +70 °C.

### **6.2. Low Temperature**

- 6.2.1. The charger must operate within normal performance limits after undergoing a temperature test at 0 °C in accordance with MIL STD 810G, Method 502.6, Procedure II (Operation) to 0 °C.
- 6.2.2. The charger must operate within normal performance limits after undergoing a storage at a temperature down to -46 °C in accordance with MIL STD 810G, Method 502.6, Procedure I (Storage) to -46 °C.

### **6.3. Humidity**

- 6.3.1. A charger that has been subject to a shock test in accordance to 6.8.1 must not show evidence of material swelling or deformation due to moisture absorption, degradation of electrical properties in insulating material, electrical shorts, oxidation, galvanic corrosion, failure to operate safely, or other defects that are detrimental to the intended function when tested with lid opened for humidity as per MIL-STD-810G, Method 507.6, procedure I, Cycle B1.

### **6.4. Vibration**

- 6.4.1. While operating, the charger must not show evidence of permanent deformation degradation of electrical properties, misalignment, cracked or broken structures, failure to operate safely or other defects when operated with the lid closed in a vibrating environment, tested as per MIL-STD 810G, Method 514.7, Procedure II (loose cargo), Annex C Category 5, composite two-wheeled trailer vibration exposure.

### **6.5. Sand and Dust**

- 6.5.1. The charger must operate within normal performance limits after undergoing a sand and dust test in accordance with MIL STD 810G, Method 510.6, Procedure I (Blowing Dust) for dust particles under 150µm at a wind speed of 8.9 m/s and Procedure II (Blowing Sand) for particles between 150µm and



850µm at a wind speed of 29 m/s. During the test, the charger is operating with the lid closed.

## **6.6. Salt Fog**

- 6.6.1. The charger must operate within normal performance limits and not show evidence of corrosion after undergoing a salt fog test in accordance with MIL STD 810G, Method 509.6, using four alternating 24 hour periods of salt-fog exposure and drying conditions. During the test, the charger is operating with the lid opened.

## **6.7. Blowing Rain**

- 6.7.1. A charger that has been subject to a shock test in accordance to 6.8.1 must operate within normal performance limits after undergoing a blowing rain test in accordance with MIL STD 810G, Method 506.6, Procedure I (Rain and Blowing Rain), at a rainfall rate of 1.8 mm/min and a wind speed of 18m/s. During the test, the charger is operating with the lid opened.

## **6.8. Shock**

- 6.8.1. The charger must not show evidence of degradation of electrical properties, cracked or broken structures, failure to operate safely or other defects when operated with the lid closed after undergoing a shock test in accordance with MIL STD 810G, Method 516.7, Procedure IV (Transit Drop) for a drop of 1.22 m.

## **6.9. Fungus**

- 6.9.1. The charger must be constructed from materials that are resistant to fungal growth.

## **6.10. EMI/EMC**

- 6.10.1. The charger must operate with no degradation to performance when exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.

# **7. Product Finishing**

## **7.1. Protective Finish**

- 7.1.1. The exterior surfaces, including the surfaces exposed when the charger is in operating mode, all charger electronic components and cables must be of one or more of the following colours or colour patterns:
- a) Non-reflective flat green finish;
  - b) Non-reflective flat black finish;
  - c) Non-reflective flat brown finish;
  - d) Non-reflective flat gray finish;

- e) Non-reflective Canadian Disruptive Pattern - Temperate Woodland (CADPAT™ TW)

## **8. Health and Safety**

### **8.1. General**

- 8.1.1. The charger must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity:
  - a) Catastrophic Mishap Severity: Could result in death, permanent total disability, or irreversible or reversible severe environmental damage that violates law or regulation.
  - b) Critical Mishap Severity: Could result in permanent partial disability, injuries or occupational illness that may result in hospitalization, or reversible environmental damage causing a violation of law or regulation.
- 8.1.2. The charger must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water or egress of internal substances.
- 8.1.3. The maximum allowable charger surface contact temperatures must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards or equivalent.
- 8.1.4. UL94 V-0 fire retardant rating
  - a) The charger must meet the UL94 V-0 fire retardant rating, or equivalent, for all plastic components and parts, except for cables and wires; or
  - b) The Contractor must submit all deviation requests with full justification for approval by the Technical Authority. The Technical Authority reserves the right to reject the deviation requests.
- 8.1.5. The charger cables and wires must meet the 60° flammability test of SAE AS81044A (MIL-W-81044B), or equivalent, with the following requirements:
  - a) 30 sec (max) after-flame;
  - b) 3.0 inches (max) flame travel;
  - c) No flaming of tissue paper.
- 8.1.6. The charger must not contain Polychlorinated Biphenyls (PCBs), halocarbons or asbestos, Deca-BDE.

### **8.2. Products Containing Mercury Regulations**

- 8.2.1. The Contractor must comply with the Products Containing Mercury Regulations “<http://www.ec.gc.ca/lcpe->

cepa/eng/regulations/detailreg.cfm?intReg=203” throughout the conduct of the Work and provide evidence of compliance when requested by Canada.

- 8.2.2. New equipment and replacement parts must not contain mercury and its compounds, where technically feasible (fit, form, function met).
- 8.2.3. For each case where a mercury-containing product has to be utilized, the Contractor must submit a statement that explains why it is not technically feasible to use a mercury-free product in its place.
- 8.2.4. The Contractor must identify where the equipment utilizes mercury and its compounds, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, and provide the details below to Canada in tabular format:
  - a) Equipment NSN (for equipment containing mercury);
  - b) Equipment Description;
  - c) NSN or unique identifier in DRMIS of the mercury-containing item;
  - d) Manufacturer of the mercury-containing item;
  - e) Date of manufacture of the mercury-containing item;
  - f) Manufacturer part number of the mercury-containing item;
  - g) National Supply Code for Manufacturers of the mercury-containing item (NSCM)/Commercial and Government Entity (CAGE) Code;
  - h) Description of the mercury-containing item;
  - i) The form of mercury (e.g. liquid, vapour, amalgam, metal halide);
  - j) The location of the mercury-containing item(s); and
  - k) Material Safety Data Sheet (MSDS), where possible.
- 8.2.5. Technical documentation provided by the Contractor must contain:
  - a) Warnings that the equipment contains mercury must reflect the requirements of the Products Containing Mercury Regulations. The technical document must also include information on part numbers containing mercury, location, type of mercury, manufacturer’s information, mercury content, and MSDS information (refer to Section 8.2.4); and
  - b) A written work procedure for processes involving the safe handling of mercury-containing equipment, components and materials:
    - i. must be included; and

- ii. must identify procedures for mercury spill clean-ups and disposal procedures; and
- iii. must identify proper Personal Protective Equipment (PPE) in the case of a spill.

## **9. Meetings**

### **9.1. General**

- 9.1.1. The Contractor must organize the following meetings at the Contractor's facility:
  - a) Kick-Off meeting;
  - b) Technical meetings; and
  - c) Preproduction meeting.
- 9.1.2. The Contractor must prepare meeting agendas, in a Contractor selected format to be sent to Canada no less than five (5) working days prior to the meeting.
- 9.1.3. The Contractor must produce meeting minutes, in a Contractor selected format, to be sent to Canada no later than five (5) working days after each meeting. The format of the first submission will be subject to approval by Canada. Once approved, the format must become the standard for future submissions.

### **9.2. Meeting Agendas**

- 9.2.1. Meeting Agendas must include, as a minimum, the following:
  - a) Meeting identification, number, scope, purpose and objectives;
  - b) Meeting venue, date, time, location, expected attendees and Level of Security;
  - c) Opening remarks;
  - d) Agenda review;
  - e) Review of previous Minutes;
  - f) Review of progress since last meeting;
  - g) Review of items by area of responsibility; Engineering and Technical, Integrated Logistics Support (ILS), EHS, schedule, Other;
  - h) Review of Issue-Action Item Log items pertinent to area of responsibility;
  - i) Open Discussion Items;
  - j) Next Meeting Date and Venue;

- k) Closing Remarks; and
- l) Requirements for visit clearances, security clearances, security arrangements, facilities, and all other pertinent information such as specific instruction on the timely distribution of all Canada/Contractor documentation or presentation material to be presented at the meeting.

### **9.3. Meeting Minutes**

- 9.3.1. Meeting Minutes must include, as a minimum, the following:
  - a) Meeting identification, number, scope, purpose and objectives;
  - b) List of all attendees detailing title, responsibility and contact information;
  - c) Discussion Items - Including a summary record of proceedings and discussions, all agenda items must be covered;
  - d) Record of decisions taken, issue/Action Item (AI) responsibility and target date of completion of issues/AIs;
  - e) Proposed date, time and location of next meeting;
  - f) Signature blocks for both Contractor and Canada responsible representatives; and
  - g) Copies of all data and information tabled at the meeting.
- 9.3.2. Meeting Minutes must include a disclaimer that the minutes are a record of discussions only and do not constitute approval of contractual changes.

### **9.4. Kick Off Meeting**

- 9.4.1. The kick-off meeting must take place within ten (10) working days after contract award (or mutually agreed upon dates). Canada and their designated representatives will attend the kick-off meeting. The purpose of this meeting is to review the contract, introduce all points of contact and to schedule a technical meeting. All other questions relating to the SOW, Product Acceptance, the preproduction samples and future meetings may also be raised at the kick-off meeting.

### **9.5. Technical Meeting**

- 9.5.1. The meeting must take place prior to Product Acceptance. Canada and their designated representatives will attend the technical meeting. The purpose of the meeting is to give the Contractor the opportunity to present the design of the charger to date, address issues or concerns, validate design assumptions, and to schedule the preproduction meeting. By accompanying the Contractor, Canada

believes the meeting will be beneficial to both parties as it helps to reduce the risk associated with having a non-compliant charger at Product Acceptance.

- 9.5.2. Additional technical meetings will be scheduled on an as and when requested basis, and mutually agreed upon by both parties.

## **9.6. Preproduction Meeting**

- 9.6.1. The meeting must take place after Product Acceptance and before the commencement of production. Canada and their designated representatives will attend the preproduction meeting. The purpose of this meeting is to allow:
- a) the Contractor to present their production plan;
  - b) the Contractor to present their Quality Control procedures;
  - c) Canada to review the battery charger identification plate; and
  - d) Canada to review the delivery dates.

## **10. Product Acceptance**

### **10.1. General**

- 10.1.1. Two (2) chargers representing the final production configuration must be delivered to Canada for Product Acceptance.
- 10.1.2. The Contractor must plan a lead time of 6 weeks in their schedule to allow Canada to complete the Product Acceptance described herein.
- 10.1.3. Canada will inform the Contractor for each non-compliant requirement.
- 10.1.4. The Contractor must undertake corrective action in coordination with the technical authority (TA).
- 10.1.5. All costs associated with the correction of non-compliant requirements must be borne by the Contractor.
- 10.1.6. A detailed description of the corrective actions and their impacts on the charger must be sent to Canada in order to establish a regression testing plan. Canada reserves the right to retest previously met requirements after corrective measures have being implemented by the Contractor.
- 10.1.7. Product Acceptance must be successfully completed before the first delivery of chargers can be executed.
- 10.1.8. Modifications must not be applied to the charger after Product Acceptance has been successfully completed without the written consent of Canada.

## **11. First Article Inspection**

### **11.1. General**

- 11.1.1. Canada will conduct a First Article Inspection at the Contractor's facility on the first batch of chargers manufactured from the production line. First Article Inspection consists of a basic verification on a sample of the first batch of chargers.
- 11.1.2. The Contractor must plan a lead time of three (3) days in their schedule to allow Canada to complete the First Article Inspection.
- 11.1.3. Canada will inform the Contractor of any non-compliance.
- 11.1.4. The Contractor must document all items of non-compliance, their corrective action plans, and the corrective actions taken to ensure compliance.
- 11.1.5. The Contractor must undertake corrective action in coordination with the Technical Authority (TA).
- 11.1.6. All costs associated with the correction of non-compliance must be borne by the Contractor.
- 11.1.7. First Article Inspection must be successfully completed before the first delivery of chargers can be executed.
- 11.1.8. In the event of non-compliance, a subsequent First Article Inspection may be required for Canada to confirm compliance.

## **12. Integrated Logistic Support Requirements**

### **12.1. Technical Data**

- 12.1.1. The Contractor must provide one or more of the following Technical Data after product acceptance for the charger and each accessory to Canada:
  - a) Engineering drawing (minimum level 2 - in accordance with D-01-400-002/SF-000), or
  - b) Industrial specification data / information sheets from the true (Design Control) manufacturer.
- 12.1.2. The Technical Data must clearly provide the following information:
  - a) Item Name; and
  - b) The manufacturer's unique part number; and

- c) The Contractor's (the Design Control Authority) NATO Commercial and Government Entity (NCAGE) code, or their full name and address, a point of contact must also be identified; and
  - d) The physical characteristics such as dimensions, tolerances, materials, mandatory processes, protective coating and surface color and finish; and
  - e) Performance data, including the environmental and operating conditions under which the item must perform; and
  - f) Electrical characteristics; and
  - g) Special features which contributed to the uniqueness of the item.
- 12.1.3. Canada will provide the Contractor with a list of applicable NSNs within thirty (30) days after the reception and acceptance of the Technical Data Package.
- 12.1.4. Once received from Canada, the Contractor must update all applicable documentation with the NATO STOCK NUMBER (NSN) identifier.

## **12.2. Equipment Identification Plate Data and Markings**

- 12.2.1. The Contractor must provide identification plates for the charger and all accessories in accordance with Canadian Forces Standard D-02-002-001/SG-001: Identification Marking of Canadian Military Property.
- 12.2.2. The identification plates must be affixed to the charger and all accessories.
- 12.2.3. The identification plates must contain the following human readable information prior to the commencement of the marking:
- a) Description; and
  - b) Serial number (for applicable items);
  - c) Part number;
  - d) NCAGE or their full name and address; and
  - e) NSN.
- 12.2.4. The identification plates must be sent to Canada for approval prior to the preproduction meeting.
- 12.2.5. The Contractor must allow five (5) working days for the review of the identification plate.

## **12.3. Item Acceptance**



- 12.3.1. Canada will inspect all Goods received by the Contractor to ensure identification plates are applied. If incorrectly applied or not applied to the Goods received, the Goods will be returned at Contractor's expense.

## **12.4. Additional Work Requests (DND 626)**

- 12.4.1. There may be a requirement for additional work to be performed. This requirement encompasses work that is over and above the current Contract requirements, but is within the scope of the work. The manner in which this work will be accomplished is via an Additional Work Request (AWR). An AWR will be implemented in accordance with the Resultant Contract Articles of Agreement 6, using the form DND 626 Task Authorization. Pricing will be negotiated using the rates and mark-ups contained in the Basis of Payment at Annex B.
- 12.4.2. Travel and Living Expenses: Where the satisfactory performance of approved Additional Work Requests entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:
- a) The provisions in the directive referring to "travellers", rather than those referring to "employees"; and
  - b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.

## **12.5. Manuals and Quick Reference Guide**

### **12.5.1. General**

- 12.5.1.1. The user manual and the Quick Reference Guide (QRG) must be submitted to Canada for approval before the first delivery of chargers can be executed.
- 12.5.1.2. The user manual and the QRG must be in both English and French.
- 12.5.1.3. The Contractor must certify that the technical content of the translated version of the user manual and the QRG are technically accurate.
- 12.5.1.4. The Contractor must allow Canada ten (10) working days to review the user manual and the QRG.
- 12.5.1.5. The Contractor must provide the user manual and the quick reference guide in hardcopy and in electronic format on CD/DVD.

### **12.5.2. User Manual**

- 12.5.2.1. The Contractor must provide a user manual of the deliverable end item that constitute the battery charger.
- 12.5.2.2. The Contractor must provide a user manual for each battery charger delivered.
- 12.5.2.3. The user manual must present a complete and detailed overview of the battery charger.
- 12.5.2.4. The user manual must describe and illustrate (with pictures) the set-up, the operation, and the maintenance of the equipment.
- 12.5.2.5. As a minimum, the user manual must contain the following sections:
  - a) Product Description (includes physical and functional descriptions, and the technical specification of the charger);
  - b) Operating Procedures;
  - c) Maintenance (includes part list and troubleshooting); and
  - d) Safety procedures.
- 12.5.3. **Quick Reference Guide**
  - 12.5.3.1. The Contractor must provide a quick reference guide (QRG) of the deliverable end item that constitute the battery charger.
  - 12.5.3.2. The Contractor must provide a QRG for each battery charger delivered.
  - 12.5.3.3. The QRG must present an integrated overview of the battery charger as a brief, complete, and compact guide in the form of an aide memoire.
  - 12.5.3.4. The QRG must describe and illustrate (with pictures) the set-up, the operation, and the basic troubleshooting of the equipment.
  - 12.5.3.5. The QRG must be affixed to the inside of the integrated transportation case as to permanently provide information to the user.

## **13. Schedule**

- 13.1. The Contractor must provide a schedule covering the period of contract award to final delivery of all firm quantities of smart battery chargers.
- 13.2. The Contractor must maintain the detailed schedule described in 13.1 to ensure the most rapid delivery of all firm quantities of smart battery chargers following contract award.
- 13.3. The Contractor must send to Canada each revision of the schedule described in 13.1.

## ANNEX B, BASIS OF PAYMENT

Table 1.0		Charger	Firm 3000 slots	option 1st yr up to 1000 slots	option 2nd yr up to 1000 slots	option 3rd yr up to 1000 slots
1.1	Total slots		3000	1000	1000	1000
1.2*	# slots per charger					
1.3*	Number of charger					
1.4*	Unit price (per charger)		\$ -	\$ -	\$ -	\$ -
1.5*	Total \$		\$ -	\$ -	\$ -	\$ -
1.6*	Section 1.0 Total:		\$ -			

1.1 Number of slots used for bid price comparison only. Except for the firm quantity, the option quantity might be ordered in a different pattern. i.e. the 1st and 2nd yr might not require the extra 1000 slots, however on the 3rd yr DND could order more than 1000 slots.  
1.2\* Enter the number of slots per charger.  
1.3\* Calculate and round up the number of chargers (round up [section 1.1 / section 1.2]).  
1.4\* Enter the charger price.  
1.5\* Calculate total cost (section 1.3 X section 1.4)  
1.6\* Summation of all item of section 1.5

Table 2.0		Optional Ancillaries	AC power cord (up to, if any)	DC power cord (up to, if any)	Ancillary - US Conformal Battery (up to, if any)	Ancillary - Scavenger Mode (up to, if any)	Ancillary - Lid (up to, if any)
2.1	Unit total		750	750	750	750	750
2.2*	Unit price		\$ -	\$ -	\$ -	\$ -	\$ -
2.3*	Total \$		\$ -	\$ -	\$ -	\$ -	\$ -
2.4*	Section 2.0 Total:		\$ -				

2.1 Number of ancillaries used for bid price comparison only.  
2.2\* Enter the ancillary price.  
2.3\* Calculate the total (section 2.1 X section 2.2).  
2.4\* Summation of all items on section 2.3.

**Additional Work Requirements:** For the satisfactory performance of approved Additional Work Requirements in accordance with the Resultant Contract Articles of Agreement 6, the Contractor shall be paid firm hourly rates, including all respective overhead and profit, for the categories and periods listed in **Table 3.0** below for the duration of the Contract.

Table 3.0		Labour Category	Level of Effort (A)	Firm Hourly Rate (B)	Total
3.1	Hour		200		
3.2*	Hourly rate per labour category				
	Project Manager		200	\$ -	\$ -
	Senior Engineer		200	\$ -	\$ -
	Intermediate Engineer		200	\$ -	\$ -
	Junior Engineer		200	\$ -	\$ -
	ILS Manager		200	\$ -	\$ -
	ILS Specialist		200	\$ -	\$ -
	Quality Assurance Manager		200	\$ -	\$ -
	Senior Draftsman		200	\$ -	\$ -
	Intermediate Draftsman		200	\$ -	\$ -
	Junior Draftman		200	\$ -	\$ -
	Senior Technologist		200	\$ -	\$ -
	Intermediate Technologist		200	\$ -	\$ -
	Junior Technologist		200	\$ -	\$ -
	Senior Technician		200	\$ -	\$ -
	Intermediate Technician		200	\$ -	\$ -
	Junior Technician		200	\$ -	\$ -
	Administrative Assistant		200	\$ -	\$ -
3.3*	Section 3.0 Total:			\$ -	\$ -

3.1 Number of hours (200) used for bid price evaluation only, this does not constitute an obligation of work on behalf of Canada.  
3.2\* Enter the Firm Hourly Rate (B) for each labour category.  
Multiply the Level of Effort (A) X Firm Hourly Rate (B).  
3.3\* Summation of all totals of section 3.2

**Additional Work Requirements:** Where the satisfactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entails the provision of materials, the Contractor shall be paid actual costs plus a firm material mark-up rate, in percentage, including all overhead and profit, as listed in **Table 4.0** below.

Table 4.0		Material Mark-up	
4.1	Material Cost		\$150,000.00
4.2*	Material Mark-up Rate		0%
4.3*	Mark-up Total \$		\$ -
4.4*	Section 4.0 Total:		\$ -
4.1 Material Cost used for bid price comparison only.			
4.2* Enter the Material Mark-up Rate Percentage.			
4.3* Calculate the Mark-up Total (section 4.1 X [1 + section 4.2]).			
4.4* Summation of all items of section 4.3			

**Additional Work Requirements-** Where the satisfactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entails the provision of subcontracting, the Contractor shall be paid actual costs plus a firm subcontracting mark-up rate, in percentage, including all overhead and profit, as listed in **Table 5** below.

Table 5.0		Sub contractor Mark-up	
5.1	Material / Service Cost		\$150,000.00
5.2*	Material / Service Mark-up Rate		0%
5.3*	Mark-up Total \$		\$ -
5.4*	Section 5.0 Total:		\$ -
5.1 Material / Service Cost used for bid price comparison only.			
5.2* Enter the Material / Service Mark-up Rate Percentage.			
5.3* Calculate the Mark-up Total (section 5.1 X [1 + section 5.2])			
5.4* Summation of all item of section 5.3			

**Travel and Living Expenses:** Where the satisfactory performance of approved Additional Work Requests entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:  
a) The provisions in the directive referring to "travellers", rather than those referring to "employees"; and  
b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.

Dated 28 Dec, 17  
RDIMS #: 3855111

*Grand Total:	\$	-
*Summation of section 1.0, 2.0, 3.0, 4.0, 5.0		

NOV 21 2017

Government  
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du Canada

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W8486-163119

Security Classification / Classification de sécurité

UNCLAS

## 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 <u>DND</u>		2. Branch or Directorate / Direction générale ou Direction <u>OGLEPM/DSSPM/DLP</u>
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 <i>Custom designed and produced Battery Chargers specific to the rechargeable batteries that are used in the new Integrated Soldier System Suite.</i>		
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 Non 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 Non 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? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (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 Non 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 Non 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 Non 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 <input type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>		
Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A PROTÉGÉ A <input type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A PROTÉGÉ A <input type="checkbox"/>
PROTECTED B PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>
SECRET SECRET <input type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET SECRET <input type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>		TOP SECRET TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>

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**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?

☒ No ☐ Yes  
Non Oui

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

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?

☒ No ☐ Yes  
Non Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

**PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)**

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

☒ 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?

☐ No ☒ Yes  
Non Oui

☒ No ☐ Yes  
Non 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?

☒ No ☐ Yes  
Non 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?

☒ No ☐ Yes  
Non 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?

☒ No ☐ Yes  
Non 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?

☒ No ☐ Yes  
Non 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?

☒ No ☐ Yes  
Non Oui



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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(les) 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  
Non

☐ Yes  
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  
Non

☐ Yes  
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).



Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat

W8486-163119

Security Classification / Classification de sécurité

**PART D - AUTHORIZATION / PARTIE D - AUTORISATION**

**13. Organization Project Authority / Chargé de projet de l'organisme**

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Jean-Philippe Martel

AI Project Manager

[Signature]

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

819-937-6699

jp.martel@forces.gc.ca

14 Nov 2017

**14. Organization Security Authority / Responsable de la sécurité de l'organisme**

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Tippy Graham - DSSO - Industrial Security Analyst

[Signature]

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

613-998-0283

tippy.graham@forces.gc.ca

20 Nov 2017

**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  
☐ Non  
☒ Yes  
☒ Oui

**16. Procurement Officer / Agent d'approvisionnement**

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Karen Westcott

PSPC Contracting Authority

Westcott, Karen

Digitally signed by Westcott, Karen  
Date: 2017.11.16  
14:26:15 -05'00'

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

343-998-5234

None

karen.westcott@tpsgc-pwgsc.gc.ca

16 November, 2017

**17. Contracting Security Authority / Autorité contractante en matière de sécurité**

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Cynthia Laverdure

Contract Security Officer

[Signature]

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

613-948-4636

cynthia.laverdure@pwgsc.gc.ca

2017-12-06



## ANNEX E

**TASK AUTHORIZATION**  
**AUTORISATION DES TÂCHES**

[illegible]

*Si nécessaire, utiliser le formulaire PWGSC-TPSGC 1112 pour inscrire les coûts détaillés*

Claim No.  
N° de la demande

Contract Serial No.  
N° de série du contrat

## CERTIFICATE OF CONTRACTOR

### I certify that:

- All authorizations required under the contract have been obtained. The claim is consistent with the progress of the work and is in accordance with the contract.
- Indirect costs have been paid for or accrued in the accounts.
- Direct materials and the subcontracted work have been received, accepted and either paid for or accrued in the accounts following receipt of invoice from supplier/subcontractor, and have been or will be used exclusively for the purpose of the contract.
- All direct labour costs have been paid for or accrued in the accounts and all such costs were incurred exclusively for the purpose of the contract;
- All other direct costs have been paid for or accrued in the accounts following receipt of applicable invoice or expense voucher and all such costs were incurred exclusively for the purpose of the contract; and
- No liens, encumbrances, charges or other claims exist against the work except those which may arise by operation of law such as a lien in the nature of an unpaid contractor's lien and in respect of which a progress payment and/or advance payment has been or will be made by Canada.

Contractor's Signature - Signature de l'entrepreneur

Check the box if the claim is being made with respect to advance payment provisions included in the basis of payment of the contract.

☐

This claim, or a portion of this claim, is for an advance payment.

### I certify that:

- The funds received will be used solely for the purpose of the contract and attached is a complete description of the purpose to which the advance payment will be applied.
- The amount of the payment is established in accordance with the conditions of the contract.
- The contractor is not in default of its obligations under the contract.
- The payment is related to an identifiable part of the contractual work.

Contractor's Signature - Signature de l'entrepreneur

## CERTIFICATES OF DEPARTMENTAL REPRESENTATIVES

**Scientific/Project/Inspection Authority:** I certify that the work meets the quality standards required under the contract, and its progress is in accordance with the conditions of the contract.

**Inspection Authority (all other contracts):** I certify that the quality of the work performed is in accordance with the standards required under the contract.

Signature of Scientific / Project / Inspection Authority  
Signature de l'autorité scientifique ou responsable du projet / de l'inspection

**PWGSC Contracting Authority:** I certify that, to the best of my knowledge, the claim is consistent with the progress of the work and is in accordance with the contract. This claim, however, may be subject to further verification and any necessary adjustment before final settlement.

Contracting Authority Signature de l'autorité contractante

**Client's Authorized Signing Officer - (must sign the interim claim):** I certify that the claim is in accordance with the contract.

Client Signature du client

**Client's Authorized Signing Officer - (must sign the final claim):** I certify that all goods have been received and all services have been rendered, that the work has been properly performed and that the claim is in accordance with the contract.

Client Signature du client

## ATTESTATION DE L'ENTREPRENEUR

### J'atteste que :

- Toutes les autorisations exigées en vertu du contrat ont été obtenues. La demande correspond à l'avancement des travaux et est conforme au contrat.
- Les coûts indirects ont été réglés ou portés aux livres.
- Les matières directes et les travaux de sous-traitance ont été reçus, et le tout a été accepté et payé, ou encore porté aux livres après réception de factures envoyées par le fournisseur ou le sous-traitant; ces matières et ces travaux ont été ou seront utilisés exclusivement aux fins du contrat.
- Tous les coûts de la main-d'œuvre directe ont été réglés ou portés aux livres et tous ces coûts ont été engagés exclusivement aux fins du contrat.
- Tous les autres coûts indirects ont été réglés ou portés aux livres après réception des factures ou pièces justificatives pertinentes et tous ces coûts ont été engagés exclusivement aux fins du contrat.
- Il n'existe aucun privilège ni demande ou imputation à l'égard de ces travaux sauf ceux qui pourraient survenir par effet de la loi, notamment le privilège d'un entrepreneur non payé à l'égard duquel un paiement progressif et/ou un paiement anticipé a été ou sera effectué par le Canada.

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)

Cocher la case si la demande est faite en rapport avec les dispositions relatives aux paiements anticipés qui se trouvent dans la base de paiement du contrat.

Cette demande, ou une partie de cette demande, est pour un paiement anticipé.

### J'atteste que :

- Les fonds reçus ne serviront uniquement qu'aux fins du contrat; ci-joint est une description complète des fins auxquelles le paiement anticipé sera utilisé.
- Le montant du paiement est établi conformément aux conditions du contrat.
- L'entrepreneur n'a pas manqué à ses obligations en vertu du contrat.
- Le paiement porte sur une partie identifiable des travaux précisés dans le contrat.

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)

## ATTESTATIONS DES REPRÉSENTANTS DU MINISTÈRE

**Autorité scientifique ou responsable du projet / de l'inspection :** J'atteste que les travaux sont conformes aux normes de qualité exigées en vertu du contrat et que leur avancement est conforme aux conditions du contrat.

**Responsable de l'inspection (tous les autres contrats) :** J'atteste que la qualité des travaux exécutés est conforme aux normes exigées en vertu du contrat.

Date (YYYY-MM-DD / AAAA-MM-JJ)

**Autorité contractante de TPSGC :** J'atteste, au meilleur de ma connaissance, que la demande correspond à l'avancement des travaux et est conforme au contrat. Toutefois, cette demande pourrait faire l'objet d'une autre vérification et de tout rajustement nécessaire avant le règlement final.

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)

**Signataire autorisé du client - (doit signer la demande provisoire) :** J'atteste que la demande est conforme au contrat.

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)

**Signataire autorisé du client - (doit signer la demande finale) :** J'atteste que tous les biens ont été reçus, que tous les services ont été rendus, que tous les travaux ont été exécutés convenablement, et que la demande est conforme au contrat.

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)

PWGSC-TPSGC 450 (2016-06)

## Instructions

### Where:

$i_0$  = initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

$i_1$  = exchange rate for adjustment purposes (CAN\$ per unit of foreign currency [e.g. US\$1])

### Instructions to bidders:

1. Bidders must complete columns (1) to (4) at time of bidding, for each line item where they want to invoke the exchange rate fluctuation provisions.

2. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.

### Instructions for Payment:

1. This form must be submitted with the invoice for payment with respect to all items with an FCC. Complete columns (1) through (7). Columns (8) and (9) will auto complete.

2. Suppliers should submit a separate calculation sheet for each invoice submitted showing the exchange rate adjustment for all line items with an FCC.

3. This form must be provided with all invoices where the exchange rate fluctuates more than 2% (increase or decrease), (i.e.  $\text{abs}[(i_1 - i_0) / i_0] > .02$ ), unless otherwise stated in the contract.

### Étant entendu que :

$i_0$  = Facteur de conversion du taux de change initial (\$ CA par unité de devise étrangère [p. ex. 1 \$ US])

$i_1$  = Taux de change aux fins du rajustement (\$ CA par unité de devise étrangère [p. ex. 1 \$ US])

### Instructions aux soumissionnaires :

1. Les soumissionnaires doivent remplir les colonnes (1) à (4) au moment de présenter leur soumission, pour chacun des produits pour lesquels ils veulent se prévaloir des dispositions relatives à la fluctuation du taux de change.

2. Lorsque les soumissions sont évaluées en dollars canadiens, les montants en dollars indiqués dans la colonne (3) doivent également être en dollars canadiens, de sorte que le montant du rajustement soit indiqué dans la même devise que pour le paiement.

### Instructions relatives au paiement :

1. Le présent formulaire doit accompagner la facture en vue du paiement pour chaque article comportant un montant en monnaie étrangère. Il faut remplir les colonnes (1) à (7). Les colonnes (8) et (9) seront remplies automatiquement.

2. Les fournisseurs doivent présenter une feuille de calcul séparée pour chaque facture et indiquer le rajustement du taux de change pour chaque article comportant un montant en monnaie étrangère.

3. Le présent formulaire doit accompagner toutes les factures pour lesquelles la fluctuation du taux de change est supérieure à 2% (augmentation ou diminution), (c. -à-d.  $\text{abs}[(i_1 - i_0) / i_0] > .02$ ), à moins d'indication contraire dans le contrat.

APPENDIX 1

BID EVALUATION MATRIX

FOR THE  
ACQUISITION AND SUPPORT  
OF  
SMART BATTERY CHARGERS

VERSION 2Q

28-12-2017

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 shall 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.

**Table 1-Mandatory Technical Performance Requirements (TPR) Evaluation Compliance Matrix**

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant/ Non-Compliant)	Bidder's Response
<b>4</b>	<b>Operational Characteristics</b>				
<b>4.1</b>	<b>Special Tools and Test Equipment</b>				
4.1.1	The charger must not require any tools for operation.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA visual inspection		
4.1.2	The charger must not require any tools for transportation.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA visual inspection		
<b>4.2</b>	<b>Transportation, Storage, and use</b>				
4.2.1	The charger must have an integrated and permanently attached transportation case that is equipped with a lid.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
4.2.2	The integrated transportation case's lid must fasten to the charger within 60 seconds by a single operator wearing winter military gloves. The NATO Stock Number for the gloves is 8415-21-920-8964.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
4.2.3	When fastened, the integrated transportation case lid must not open unless done by human intervention.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
4.2.4	The charger must charge batteries with the integrated transportation case lid opened.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
4.2.5	The charger must charge batteries with the integrated transportation case lid closed.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		



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4.2.6	All cables must be contained within the integrated transportation case.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		
4.2.7	The integrated transportation case of the charger must be stackable.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
4.2.8	The integrated transportation case of the charger must support at least the weight of a pile of stackable items of similar weight and size up to 4 feet tall, to allow pallet shipping. The weight of the stackable items does not include the weight of the batteries.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor and TA functional test		

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<b>5</b>	<b>Requirements</b>				
<b>5.1</b>	<b>Technical and Performance Specifications</b>				
<b>5.1.1</b>	<b>Power Inputs</b>				
5.1.1.1	At a minimum, the charger must accept and use Alternating Current (AC): 90V AC to 260V AC, 50Hz to 60Hz and drawing 15Amps maximum to charge the batteries. The nominal voltage for an AC power source is 120V AC.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.1.2	The charger must accept and use Direct Current (DC). The charger must operate from at least 8V DC to 36V DC and drawing 15Amps maximum. The nominal voltage and current for a DC power source is 28V DC.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.1.3	The power converter that is handling the mandatory supported inputs defined into 5.1.1.1 and 5.1.1.2 must be integrated and permanently attached to the charger.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA visual inspection		

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5.1.1.4	Should the charger be current fault protected, it must be protected by a resettable circuit breaker.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA visual inspection; and Test report provided by the Contractor.		
5.1.1.5	<p>The AC power cable :</p> <p>a) must be detachable; and</p> <p>b) must be terminated with a plug connector type NEMA 5-15; and</p> <p>c) must not disconnect from the charger with a pulling force of less than 15 lbs; and</p> <p>d) must be provided, one (1) cable per charger; and</p> <p>e) must be provided in a length of 1800mm +/- 10%.</p>	<p>The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.</p>	TA functional test		

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5.1.1.6	The charger must be DC powered through a power connector that mates with the MIL-DTL-26482 series II CONN PLUG, 14-55N type connector. The connector pin out Interface Control Document (ICD) and keying will be provided after contract award.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.1.7	The charger DC power cable: a) must be terminated with connector MIL-DTL-26482 series II CONN PLUG 14-55N on one end and with CONN PLUG 14-4PN on the other end (The connector pin out ICD and keying will be provided after contract award); and b) must be provided, one (1) cable per charger; and c) must be provided in a length of 1800mm +/- 10%.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.1.8	The charger must endure vehicular starting disturbances in accordance with MIL-STD-1275E.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
5.1.1.9	Protective Covers: a) The charger must include a Protective Cover for every input connector; and b) All Protective Covers must be removable; and c) All Protective Covers must be attached to the battery charger physical device.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
<b>5.1.2</b>	<b>Charging</b>				
5.1.2.1	The charger must safely charge batteries. Safely means that no damage is induced to the user, the battery life cycle, and the charger.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
5.1.2.2	The charger must charge Ultralife Li-145(UBBL06), Li-175(UBBL06-01), Li-200(UBBL06-02), and Li-80(UBBL08) batteries.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.2.3	The charger must charge the same type of batteries defined in 5.1.2.2 from other vendors.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.2.4	The charger must automatically charge all loaded batteries that may be at a different Relative State of Charge (RSOC) without user interventions during the charge cycle until the batteries have finished charging.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		

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5.1.2.5	The charger must accept at least 8, but no more than 12, simultaneously connected batteries defined in section 5.1.2.2, and charge them from 0% to 100% RSOC using one power source.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA visual inspection		

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5.1.2.6	With the nominal AC power source defined in 5.1.1.1, the maximum charge time to 100% RSOC, for a fully loaded charger with Ultralife Li-145(UBBL06) batteries at 0% RSOC, must not exceed 8 hours total.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		

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5.1.2.7	With the nominal DC power source defined in 5.1.1.2, the maximum charge time to 100% RSOC, for a fully loaded charger with Ultralife Li-145(UBBL06) batteries at 0% RSOC, must not exceed 17 hours total.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		

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5.1.2.9	Regardless of the charging mode, the charger must use a maximum charge rate such that rechargeable batteries will store a charge of at least 80% of their rated capacity in amp-Hr after 200 charge/discharge cycles.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Test report provided by the Contractor.		



Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after the Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.2.10	The charger must communicate with the control circuits of each individual loaded battery using the Smart Battery Charger specification Revision 1.1.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Confirmation from the Contractor that the explanation provided at bid time is still accurate and valid.		

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5.1.2.13	<p>US Conformal Battery</p> <p>a) The charger must provide at least one port to charge the US conformal battery NSN: 6140-01-622-5688. It is acceptable to share the electronic circuitry with an existing battery slot defined in section 5.1.2.5. This port does not count in the number of slot counts used for the requirements 5.1.8.9 and 5.1.8.10; and</p> <p>b) If the charging of the US conformal battery is achieved with the use of cable(s) then one set of cable(s) must be provided per charger delivered; and</p> <p>c) Each cable part of the cable set must be removable.</p> <p>The requirements in sections 4.2.4, 4.2.5, 5.1.8.1, and 5.1.8.2 do not apply for the conformal battery.</p>	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		

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5.1.2.14	The charger must meet the requirements of a level 2 or a level 3 smart battery charger in accordance with the Smart Battery Charger specification Revision 1.1.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Confirmation from the Contractor that the explanation provided at bid time is still accurate and valid.		
<b>5.1.3</b>	<b>Charge Controller</b>				
5.1.3.1	The charger must automatically recognize the type of battery connected if the charger can charge multiple battery chemistries.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
5.1.3.2	The charger must not overcharge a battery.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		

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Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.3.3	The charger must stop charging a battery when the battery's temperature is over its pre-set allowable limit, unless the charger can safely continue to charge.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
<b>5.1.4</b>	<b>Fault Detection Features</b>				
5.1.4.1	Non Rechargeable Batteries a) Either the charger must not accept non rechargeable batteries; or b) The charger must detect non rechargeable batteries and prevent the initiation of charging process; and also notify the user in accordance with the indicators specification laid out in 5.1.6.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
5.1.4.2	Incompatible Rechargeable Batteries a) The charger must detect rechargeable batteries that are incompatible with the charger; and b) The charger must prevent the initiation of charging process; and c) The charger must also notify the user in accordance with the indicators specification laid out in 5.1.6.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
5.1.4.3	The charger must notify the user in accordance with the indicators specification laid out in 5.1.6 when the battery's temperature is above the maximum temperature indicated in 5.1.3.3.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
5.1.4.4	5.1.4.4. Defective Batteries a) The charger must detect a defective battery; and b) The charger must prevent the charge cycle to start; and c) The charger must also notify the user in accordance with the indicators specification laid out in 5.1.6.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
<b>5.1.5</b>	<b>Firmware</b>				

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Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after the Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.5.1	The charger must have upgradeable firmware without requiring any change in hardware.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Confirmation from the Contractor that the explanation provided in their bid is still accurate and valid.		
<b>5.1.6</b>	<b>Indicators</b>				

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.6.1	<p>For each battery slot, the charger must visually indicate the following information to the user without the use of special tools or external equipment (e.g. computer or hand held device):</p> <ul style="list-style-type: none"> <li>a) The RSOC with at least 3 measurement gradients (ex. 'low', 'medium' and 'high'); and</li> <li>b) Whether the battery is currently on a charge cycle; and</li> <li>c) Whether the battery is waiting for a charge cycle (if applicable); and</li> <li>d) That the battery has reached 80% RSOC; and</li> <li>e) That the battery is 'ready for use' that means that it is charged to 100% RSOC; and</li> <li>f) Each fault detection feature laid out in 5.1.4.</li> </ul>	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		

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5.1.6.2	If there is a fault, the indication must be displayed within 15 seconds after the insertion of the battery into the charger.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Test report provided by the Contractor.		

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.6.3	If the indication information is coded (e.g. light blinks), the instructions to decode must be displayed on the charger and remain visible while the charger is in use.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		



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5.1.6.4.	If the charger can also indicate faults by audible sounds, then the charger must have the option to turn off the audible sounds.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ul style="list-style-type: none"> <li>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>b) must be supported by one or more of the following justifications: <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> </li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	Confirmation from the Contractor that the explanation provided in their bid is still accurate and valid.		
<b>5.1.7</b>	<b>Outputs</b>				

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.7.1	Batteries must connect directly to the charger via the (4) charge pins at the end of the battery, or connected through the battery connector without utilisation of cords, cables or pigtail adaptors.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA visual inspection.		
5.1.7.2	The battery connectors on the charger must have a lifetime of at least 2,000 mating cycles without requiring maintenance.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor.		

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5.1.7.3	<p>USB Ports</p> <ul style="list-style-type: none"> <li>a) The charger must be equipped with at least 4 USB type A ports; and</li> <li>b) Each port must be compatible with tablets, smartphones, and other like devices for charging; and</li> <li>c) Each USB port must provide at least 1.2A; and</li> <li>d) Each USB Ports must include a protective cover; and</li> <li>e) Each USB Port Protective Covers must be removable; and</li> <li>f) Each USB Port Protective Covers must be attached to the battery charger physical device.</li> </ul> <p>The USB ports do not count in the number of slot counts used for the requirements 5.1.8.9 and 5.1.8.10.</p>	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
<b>5.1.8</b>	<b>Physical</b>				

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.8.1	The battery charger must provide individual snug fitting slots to hold the batteries in place to prevent inducing mechanical stress to the battery connectors while the integrated transportation case lid is open.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.8.2	The battery charger must provide a mechanism to securely hold the batteries in place to prevent the batteries from moving and damaging the connectors while the battery charger is upside down. The integrated transportation case lid could be part of the mechanism to secure the batteries in place.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		
5.1.8.3	Except for the lid, the conformal battery cable(s), the AC and DC power cables and the scavenger mode cable(s), the battery charger must not include removable parts.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA visual inspection		

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.8.4	All cables not utilized during the charging process must be stowed within the charger while batteries are being charged.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <p>a) must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <p>(i) conceptual drawings of the charger</p> <p>(ii) calculations;</p> <p>(iii) photos;</p> <p>(iv) data sheets;</p> <p>(v) a description of the charger.</p> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	TA functional test		
5.1.8.5	Stowed cables must not prevent the charger from charging the batteries with the integrated transportation case lid closed.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.8.6	The volume of the battery charger must not exceed 80 000 cubic centimeters.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		

W8486-163119		Appendix 1 – Bid Evaluation Matrix			
Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
5.1.8.7	The maximum value for a dimension (height, width or depth) of the charger must not exceed 762 mm.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
5.1.8.8	The weight of the battery charger must not exceed 23kg. The weight includes the battery charger and all its cables. The weight of the batteries are excluded from the weight of the battery charger.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA functional test		
<b>6</b>	<b>Operating Environment</b>				
<b>6.1</b>	<b>High Temperature</b>				
6.1.1	The charger must operate within normal performance limits after undergoing a temperature test up to +49 °C in accordance with MIL STD 810G, Method 501.6, Procedure II (Operation) to +49 °C.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
6.1.2	The charger must operate within normal performance limits after undergoing a temperature test up to +70 °C in accordance with MIL STD 810G, Method 501.6, Procedure I (Storage) to +70 °C.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.2</b>	<b>Low Temperature</b>				
6.2.1	The charger must operate within normal performance limits after undergoing a temperature test at 0 °C in accordance with MIL STD 810G, Method 502.6, Procedure II (Operation) to 0 °C.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
6.2.2	The charger must operate within normal performance limits after undergoing a temperature test at -46 °C in accordance with MIL STD 810G, Method 502.6, Procedure I (Storage) to -46 °C.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.3</b>	<b>Humidity</b>				
6.3.1	A charger that has been subject to a shock test in accordance to 6.8.1 must not show evidence of material swelling or deformation due to moisture absorption, degradation of electrical properties in insulating material, electrical shorts, oxidation, galvanic corrosion, failure to operate safely, or other defects that are detrimental to the intended function when tested with lid opened for humidity as per MIL-STD-810G, Method 507.6, procedure I, Cycle B1.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
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Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
<b>6.4</b>	<b>Vibration</b>				
6.4.1	While operating, the charger must not show evidence of permanent deformation degradation of electrical properties, misalignment, cracked or broken structures, failure to operate safely or other defects when operated with the lid closed in a vibrating environment, tested as per MIL-STD 810G, Method 514.7, Procedure II (loose cargo), Annex C Category 5, composite two-wheeled trailer vibration exposure.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.5</b>	<b>Sand and Dust</b>				
6.5.1	The charger must operate within normal performance limits after undergoing a sand and dust test in accordance MIL STD 810G, Method 510.6, Procedure I (Blowing Dust) for dust particles under 150µm at a wind speed of 8.9 m/s and Procedure II (Blowing Sand) for particles between 150µm and 850µm at a wind speed of 29 m/s. During the test, the charger is operating with the lid closed.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.6</b>	<b>Salt Fog</b>				
6.6.1	The charger must operate within normal performance limits and not show evidence of corrosion after undergoing a salt fog test in accordance with MIL STD 810G, Method 509.6, using four alternating 24 hour periods of salt-fog exposure and drying conditions. During the test, the charger is operating with the lid opened.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.7</b>	<b>Blowing Rain</b>				
6.7.1	A charger that has been subject to a shock test in accordance to 6.8.1 must operate within normal performance limits after undergoing a blowing rain test in accordance with MIL STD 810G, Method 506.6, Procedure I (Rain and Blowing Rain), at a rainfall rate of 1.8 mm/min and a wind speed of 18m/s. During the test, the charger is operating with the lid opened.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>6.8</b>	<b>Shock</b>				
6.8.1	The charger must not show evidence of degradation of electrical properties, cracked or broken structures, failure to operate safely or other defects when operated with the lid closed after undergoing a shock test in accordance with MIL STD 810G, Method 516.7, Procedure IV (Transit Drop) for a drop of 1.22 m.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		



Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
<b>6.9</b>	<b>Fungus</b>				
6.9.1	The charger must be constructed from materials that are resistant to fungal growth.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor.		
<b>6.10</b>	<b>EMI/EMC</b>				
6.10.1	The charger must operate with no degradation to performance when exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
<b>7</b>	<b>Product Finishing</b>				
<b>7.1</b>	<b>Protective Finish</b>				
7.1.1	The exterior surfaces, including the surfaces exposed when the charger is in operating mode, all charger electronic components and cables must be of one or more of the following colours or colour patterns: a) Non-reflective flat green finish; b) Non-reflective flat black finish; c) Non-reflective flat brown finish; d) Non-reflective flat gray finish; or e) Non-reflective Canadian Disruptive Pattern - Temperate Woodland (CADPAT™ TW)	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	TA visual inspection		
<b>8</b>	<b>Health and Safety</b>				
<b>8.1</b>	<b>General</b>				
8.1.1	The charger must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity: a) Catastrophic Mishap Severity: Could result in death, permanent total disability, or irreversible or reversible severe environmental damage that violates law or regulation. b) Critical Mishap Severity: Could result in permanent partial disability, injuries or occupational illness that may result in hospitalization, or reversible environmental damage causing a violation of law or regulation.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor		

W8486-163119		Appendix 1 – Bid Evaluation Matrix			
Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
8.1.2	The charger must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water or egress of internal substances.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor		
8.1.3	The maximum allowable charger surface contact temperatures must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards or equivalent.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Test report provided by the Contractor.		
8.1.4	UL94 V-0 fire retardant rating a) The charger must meet the UL94 V-0 fire retardant rating, or equivalent, for all plastic components and parts, except for cables and wires; or b) The Contractor must submit all deviation requests will full justification for approval by the Technical Authority. The Technical Authority reserves the right to reject the deviation requests.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
8.1.5	The charger cables and wires must meet the 60° flammability test of SAE AS81044A (MIL-W-81044B), or equivalent, with the following requirements: c) 30 sec (max) after-flame; d) 3.0 inches (max) flame travel; e) No flaming of tissue paper.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Certificate of compliance or test report provided by the Contractor.		
8.1.6	The charger must not contain Polychlorinated Biphenyls (PCBs), halocarbons or asbestos, Deca-BDE.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor.		
<b>8.2</b>	<b>Products Containing Mercury Regulations</b>				
8.2.1	The Contractor must comply with the Products Containing Mercury Regulations "http://www.ec.gc.ca/cpe-cepa/eng/regulations/detailreg.cfm?intReg=203" throughout the conduct of the Work and provide evidence of compliance when requested by Canada.	The Bidder must commit to providing a product that meets or exceeds the requirement by product acceptance.	Analysis report provided by the Contractor.		
<b>13</b>	<b>Schedule</b>				

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
13.1	The Contractor must provide a schedule covering the period of contract award to final delivery of all firm quantities of smart battery chargers.	<p>The Bidder must provide a schedule for all of the firm quantities of smart battery chargers following contract award.</p> <p>It's desirable for the Bidder' schedule to be in a Gantt chart form, to use working days after contract award as the time scale for activity duration, and to include the following activities:</p> <ul style="list-style-type: none"> <li>a) Design Phase;</li> <li>b) Pre-Production Phase;</li> <li>c) Production Phase;</li> <li>d) All the environmental testing activities;</li> <li>e) Product acceptance period;</li> <li>f) All meetings laid out in section 9;</li> <li>g) First Article Inspection;</li> <li>h) User manual and Quick Reference Guide;</li> <li>i) Delivery time of half of the firm quantity of smart battery chargers following contract award; and</li> <li>j) All deliveries.</li> </ul>	N/A		

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
14	<b>Experience in environmental engineering design and testing of electronic devices</b>				
14.1	<p>The Contractor must have the experience in environmental engineering design and testing of its electronic devices in 2 of any of the Qualifying Activities:</p> <p>Qualifying Activities:</p> <ul style="list-style-type: none"><li>• High temperature testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Low temperature testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Humidity testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Sand and dust testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Vibration testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Salt fog testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F; and</li><li>• Blowing rain testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li><li>• Shock testing IAW methods and procedures described in MIL-STD-810G or MIL-STD-810F;</li></ul>	<p>The Bidder must describe projects, contracts and / or tasks within the last 10 years in which its products have undergone at least two (2) of the eight (8) types of qualifying activities specified in the requirement statement of para 14.1, in support of equipment it sells; performed by the Bidder or by a third party / independent testing body.</p> <p>The description must contain the following:</p> <ul style="list-style-type: none"><li>a) Customer reference that can confirm the activity performed within a given project.</li><li>b) Device name or model number; and</li><li>c) One or more of the following supporting documents:<ul style="list-style-type: none"><li>i. Test Reports;</li><li>ii. Specification sheets; or</li><li>iii. Certificates of Compliance.</li></ul></li></ul> <p>The supporting documents listed above must indicate that the device has been tested under the exact qualifying activity.</p> <p><b>Valid Qualifying Activity:</b></p> <p>The Bidder provided a complete</p>			

Req	Requirement Statement	Instructions to Bidder & Evaluation Criteria	Product acceptance method (This column only applies after Contract Award with the winning Bidder)	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response
		<p>description with a valid customer reference, the name or model number of the device and a supporting document indicating that the device has been tested under the exact qualifying activity.</p> <p><b>Invalid Qualifying Activity:</b></p> <p>The Bidder provided a description that contains one or more of the following errors:</p> <ul style="list-style-type: none"> <li>a) Invalid or missing customer reference;</li> <li>b) Missing Device name or model number;</li> <li>c) Inadequate or missing supporting documentation indicating that the device has been tested under the qualifying activity.</li> </ul> <p>If more than one project / contract and/or task is submitted for the same qualifying activity, only the first one in order of presentation will be evaluated.</p>			

**Table 2 – Rated Requirements Evaluation Compliance Matrix**

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
<b>5</b>	<b>Requirements</b>						
<b>5.1</b>	<b>Technical and Performance Specifications</b>						
<b>5.1.2</b>	<b>Charging</b>						
5.1.2.8	With the nominal AC power input defined in 5.1.1.1, a fully loaded charger with UltraLife Li-145 (UBBL06) batteries at 0% RSOC should charge all loaded batteries to 80% RSOC as quickly as possible without exceeding the maximum charge rate laid out in 5.1.2.9 and without prejudice to requirement 5.1.2.6.	<p>Bidder must provide the following values:</p> <p>a) Time (in minutes) required for all batteries to reach 80% RSOC (Time to 80%); and</p> <p>b) Time (in minutes) required for all batteries to reach 100% RSOC.</p> <p>It is the Bidder responsibility to correctly anticipate the time to 80% estimated in his Proposal as it must be equal or more than the time to 80% obtained during the product acceptance test.</p>	<p>The time will be rounded to the nearest minute.</p> <p>Batteries at 80% RSOC per hour Ratio (80% Ratio) will be calculated as follows:</p> <p>80% Ratio = Number of slots ÷ Time to 80%</p> <p>All values (points and ratios) will be rounded to the first decimal place. Example: 1.78 → 1.8, 1.15 → 1.2, 1.11 → 1.1.</p> <p>If a Bidder provides multiples values for the time to 80% then only the lowest possible 80% Ratio will be considered.</p> <p>Only 80% Ratios from Bidders that have demonstrated in their bid the product meets all mandatory requirements are compared. This is due to the fact that a battery charger with the same requirements outlined in the Statement of Work does not yet exist on the market.</p>			8	TA functional test

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
			<p>Bidder with the highest 80% Ratio gets maximum points.</p> <p>Bidder that has the lowest 80% Ratio gets 0 points.</p> <p>Bidders that have not provided any of the requested values specified in the Instruction to Bidder section of para 5.1.2.8 will get an 80% Ratio of 0.</p> <p>Linear function for points between the lowest and the highest 80% Ratio.</p> <p>Maximum points will be given if the 80% Ratio is greater than 90% of the highest 80% Ratio.</p> <p>See Figure 3: Example of the point calculation</p>				

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
5.1.2.11	The charger should bring a loaded battery defined at 5.1.2.2 from low voltage protection (also known as shutdown) state back to normal operation.	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation:</p> <ol style="list-style-type: none"> <li>must contain sufficient detail so that the evaluator is able to follow the basic design logic; and</li> <li>must be supported by one or more of the following justifications:               <ol style="list-style-type: none"> <li>conceptual drawings of the charger</li> <li>calculations;</li> <li>photos;</li> <li>data sheets;</li> <li>a description of the charger.</li> </ol> </li> </ol> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	<p><b>High:</b></p> <p>The Bidder provided an in-depth conceptual drawing and/or description and/or analysis report to fully meet all elements of the requirement. All necessary details are provided and no deficiencies exist with the objective and expected outcomes of the requirement. The Bidder demonstrates the capability to fully meet all elements of the Requirement. (8 points)</p> <p><b>Good:</b></p> <p>The Bidder provided a conceptual drawing and/or description and/or analysis report to adequately meet all elements of the requirement. Major necessary details are provided and minor deficiencies exist with the objective and expected outcomes of the requirement. The Bidder demonstrates the capability to adequately meet all elements of the requirement. (5 points)</p>			8	TA functional test



Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
			<p><b>Low:</b></p> <p>The Bidder provided an incomplete conceptual drawing and/or description and/or analysis report to explain how it will meet the requirement. There are several major deficiencies with the objective and expected outcomes of this requirement. The Bidder does not demonstrate the minimum capability to meet all the major elements of the requirement. (2 points)</p> <p><b>Poor:</b></p> <p>The bidder did not provide an explanation or attempted to meet the requirement. (0 points)</p>				
5.1.2.12	Scavenger Mode a) The charger should have a scavenger mode where the charger drains non rechargeable batteries to 0% RSOC in	<p>The bidder must clearly explain how the product will meet the requirement.</p> <p>The explanation: a) must contain sufficient detail so that the evaluator is able to follow the basic</p>	<p><b>High:</b></p> <p>The Bidder provided an in-depth conceptual drawing and/or description and/or analysis report to fully meet all elements of the requirement. All necessary details are</p>			4	TA functional test

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
	<p>order to charge rechargeable batteries when there are no AC or DC power sources available. The NATO stock number (NSN) for the non-rechargeable batteries is 6135-01-583-8973; and</p> <p>b) If the scavenger mode is achieved with the use of cable(s) then one set of cable(s) must be provided per charger delivered; and</p> <p>c) Each cable part of the cable set must be removable.</p>	<p>design logic; and</p> <p>b) must be supported by one or more of the following justifications:</p> <ul style="list-style-type: none"> <li>(i) conceptual drawings of the charger</li> <li>(ii) calculations;</li> <li>(iii) photos;</li> <li>(iv) data sheets;</li> <li>(v) a description of the charger.</li> </ul> <p>The bid will be deemed compliant if the explanation demonstrates that the requirement is met or if the explanation demonstrates that the requirement will be met by the time of product acceptance.</p>	<p>provided and no deficiencies exist with the objective and expected outcomes of the requirement. The Bidder demonstrates the capability to fully meet all elements of the Requirement.</p> <p><b>Good:</b> (4 points)</p> <p>The Bidder provided a conceptual drawing and/or description and/or analysis report to adequately meet all elements of the requirement. Major necessary details are provided and minor deficiencies exist with the objective and expected outcomes of the requirement. The Bidder demonstrates the capability to adequately meet all elements of the requirement.</p> <p><b>Low:</b> (2 points)</p> <p>The Bidder provided an incomplete conceptual drawing and/or description and/or analysis report to explain how it will meet the requirement. There are several</p>				

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
			major deficiencies with the objective and expected outcomes of this requirement. The Bidder does not demonstrate the minimum capability to meet all the major elements of the requirement. (1 points)  <b>Poor:</b> The bidder did not provide an explanation or attempted to meet the requirement. (0 points)				
<b>5.1.8</b>	<b>Physical</b>						
5.1.8.9	The battery charger provided should be optimized to minimize the volume per slot ratio.	The Bidder should provide the charger volume using the overall external dimension in cubic centimeter. The volume is the volume of the smallest box (Length x Width x Depth) where the charger can fit in.  It is the Bidder's responsibility to anticipate the volume tolerance, as the volume obtained during the product acceptance test must be equal or less than the volume indicated in the Bidder's Proposal.	A Volume per slot Ratio will be calculated: Volume per slot Ratio = Volume ÷ number slots  All values (points and ratios) will be rounded to the first decimal place. Example: 1.78 → 1.8, 1.15 → 1.2, 1.11 → 1.1.  If a Bidder provides multiples values for the Volume then only the highest value will be considered.			5	TA functional test

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
			<p>Only the Volume per slot Ratios from Bidders that have demonstrated in their bid the product meets all mandatory requirements are compared. This is due to the fact that a battery charger with the same requirements outlined in the Statement of Work does not yet exist on the market.</p> <p>Figure 1: Example of the volume calculation.</p> <p>Contender with the smallest Volume per slot Ratio gets maximum points.</p> <p>Contender that has the largest Volume per slot Ratio gets 0 points.</p> <p>Linear function for points between smallest Volume per slot Ratio and largest Volume per slot Ratio.</p> <p>Maximum points will be given if the Volume per slot Ratio of the charger is less than 10% larger than the smallest Volume per slot Ratio.</p> <p>See Figure 2: Example of the point</p>				

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
5.1.8.10	The battery charger provided should be optimized to minimize the weight per slot ratio.	<p>The Bidder should provide the weight in grams of the charger in operational configuration. The weight must include the charger and its cables. The weight of the batteries are excluded from the weight of the battery charger.</p> <p>It is the Bidder responsibility to anticipate the weight tolerance, as the weight obtained during the product acceptance test must be equal or less than the weight indicated in the Bidder's Proposal.</p>	<p>calculation.</p> <p>A Weight per slot Ratio will be calculated:  Weight per slot Ratio = Weight ÷ number slots</p> <p>All values (points and ratios) will be rounded to the first decimal place. Example: 1.78 → 1.8, 1.15 → 1.2, 1.11 → 1.1.</p> <p>If a Bidder provides multiples values for the Weight then only the highest value will be considered.</p> <p>Only the Weight per slot Ratios from Bidders that have demonstrated in their bid the product meets all mandatory requirements are compared. This is due to the fact that a battery charger with the same requirements outlined in the Statement of Work does not yet exist on the market.</p> <p>Contender with the smallest Weight per slot Ratio gets maximum points.</p> <p>Contender that has the largest Weight per slot Ratio gets 0 points.</p>			10	TA functional test

Req	Requirement Statement	Instruction to Bidder	Evaluation Criteria and Scale	Bidder's Compliance (Compliant / Non-Compliant)	Bidder's Response	Max Points	Product acceptance method (This column only applies after Contract Award with the winning Bidder)
			<p>Linear function for points between smallest Weight per slot Ratio and largest Weight per slot Ratio.</p> <p>Maximum points will be given if the Weight per slot Ratio of the charger is less than 10% heavier than the smallest Weight per slot Ratio.</p> <p>See Figure 2: Example of the point calculation</p>				
TOTAL SCORE :							/35 points

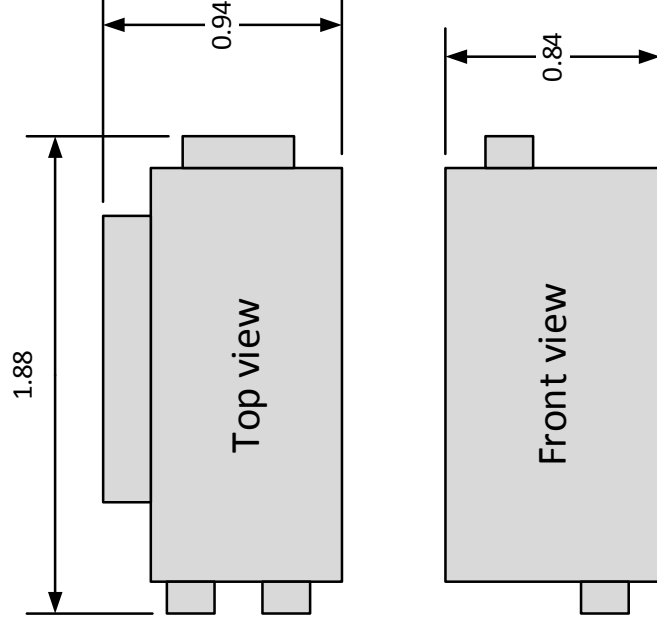


Figure 1: Example of volume calculation

For irregular shape, the volume will be determined as shown in Figure 1. The volume in the example would be  $1.88 \times 0.94 \times 0.84 = 1.48$ .

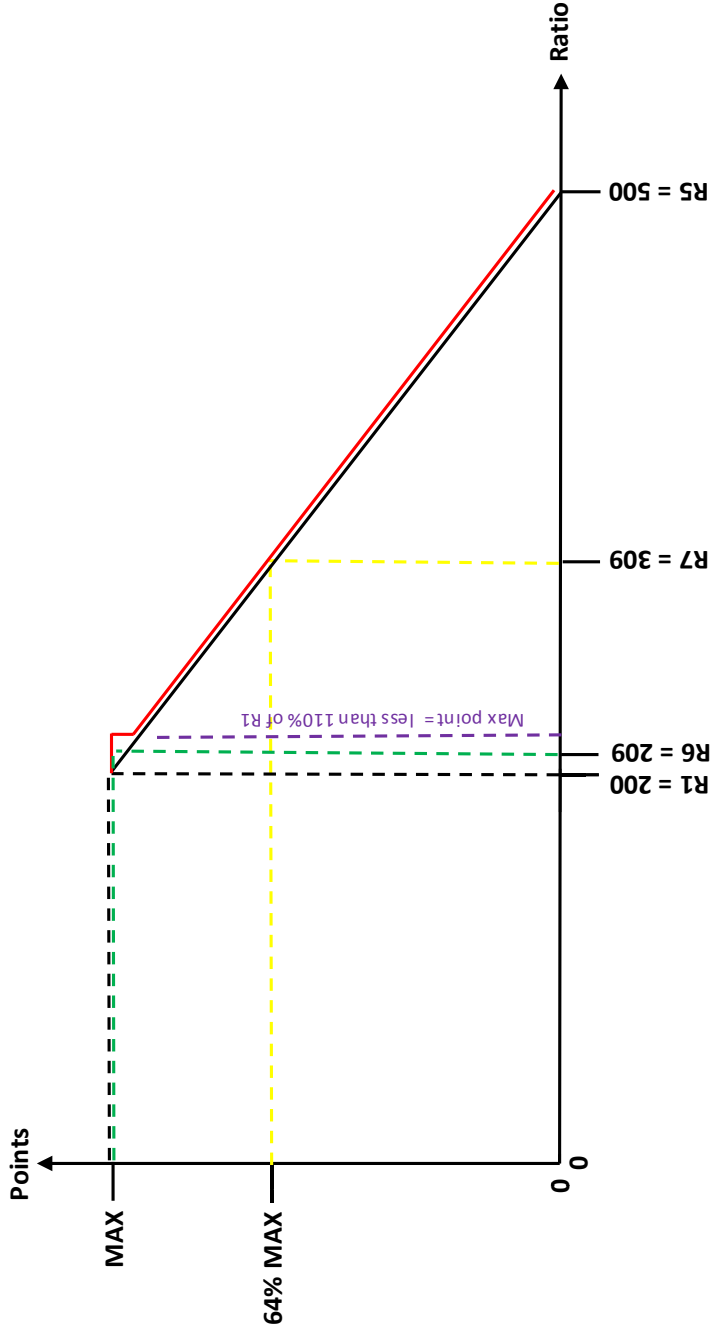


Figure 2: Example of the point calculation

The Red line indicates the scoring line. The line is established by the linear regression between the lowest Bidder ratio (R1) and highest Bidder ratio (R5) in the example. Any Bidder within 110% of R1 gets full score, therefore R1 and R6 are both getting the maximum number of points. R7 gets the 64% of the maximum number of points where R5 gets 0 points. It is possible that all Bidder gets the maximum number of points if all ratio are within 110% of the lowest ratio (R1).



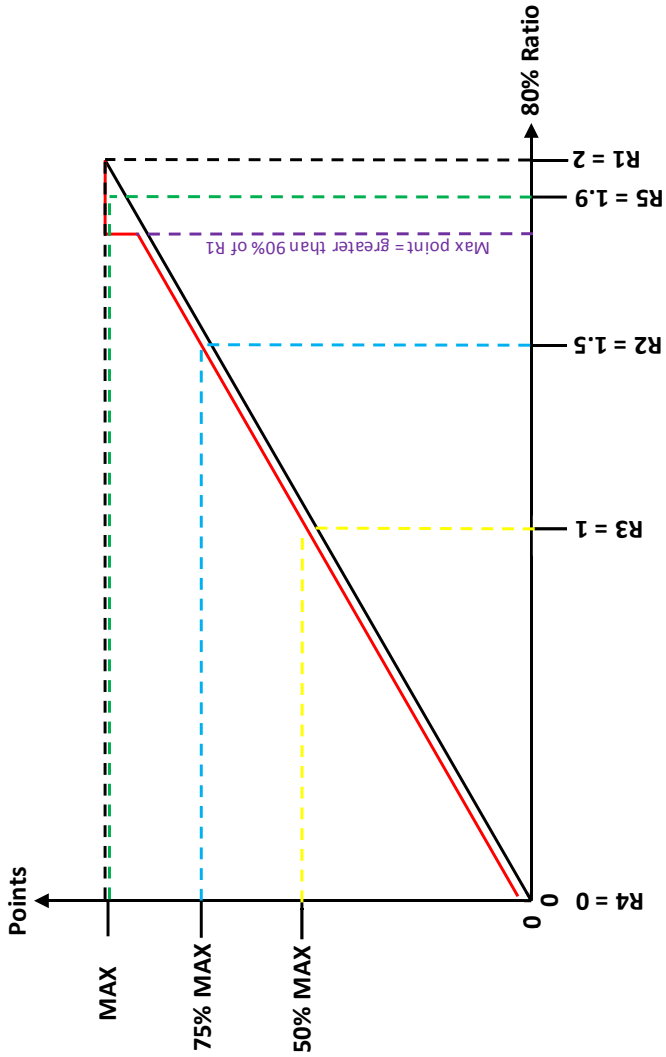


Figure 3: Example of the point calculation

The red line indicates the scoring line and is established by the linear regression between the Bidder that has the lowest 80% Ratio (R4) and the Bidder that has the highest 80% Ratio (R1). Any Bidder greater than 90% of R1 gets full score, therefore R1 and R5 are both getting the maximum number of points. R3 gets 50% of the maximum number of points. R2 gets 75% of the maximum number of points. It is possible that all Bidders gets maximum point if all 80% Ratios are greater than 90% of the highest 80% ratio (R1).