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SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

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Title - Sujet HEADQUARTERS SHELTER SYSTEMS (HQSS)	
Solicitation No. - N° de l'invitation W8476-155245/A	Amendment No. - N° modif. 010
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Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-08-14	
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Amendment No. 010

This amendment is raised:

- A. to amend the Volume 1- Bidder Instructions and Requirements, Annex B - Evaluation Plan to correct an error and provide additional details at paragraph 3.1.2 - Preliminary Report; and
- B. provide some answers to questions submitted by Bidders

For recording and tracking purpose, there is a number assigned to each question as received by PWGSC. The responses are being published as they become available but not necessarily reflect the original assigned numbering sequence.

- A. Amend Volume 1 - Bidder Instructions and Requirements, Annex B - Evaluation Plan paragraph 3.1.2 - Preliminary Report to delete the word maximum and replace with the word “minimum” in the last sentence, as follow:

- i. Delete subparagraph 3.1.2.1

insert new paragraph as follow:

After this initial review, if any bid is determined to be non-responsive in accordance with the review parameters noted above, the Contracting Authority will issue a “Preliminary Evaluation Report” (or “Report”) identifying those instances where the bid is non-responsive to a mandatory pass/fail requirement of the bid solicitation and/or point-rated requirement where the mandatory minimum score was not received.

- ii. To add the words “or augment” in the first sentence after “in full”, amend as follow:

Delete sub-paragraph 3.1.2.7

Insert new paragraph as follow:

Information submitted by non-responsive Bidders in response to the Report and accepted by Canada will be deemed to replace, in full, or augment **only** the non-responsive information or response in the Bidder’s original bid as identified in

the Report and will be used for the remainder of the bid evaluation process. The additional or different information submitted **will only** be used to determine the Bidder's responsiveness to the Solicitation requirements.

-
- iii. To add the word "mandatory" in the first sentence after the word "not achieved the" as follow:

Delete sub-paragraph 3.1.2.11

Insert new paragraph as follow:

For those instances where a Bidder chooses not to submit additional or different information for a requirement identified as non-responsive or as having not achieved the mandatory minimum score for a point-rated requirement, the Bidder must submit a response indicating "No Change" for such requirement and the original response for that item will continue to apply. If a Bidder does not provide a "No Change" response, the Bidder shall be deemed to have provided a "No Change" response and the original response for that item shall continue to apply.

-
- iv. To provide more details at paragraph 3.1.2.12 as follow:

Delete sub-paragraph 3.1.2.12 in its entirety

Insert new paragraph as follow:

In the case of point-rated requirements having a mandatory minimum score, **there will be no change to the Bidder's original evaluated score as a result of the additional or different information submitted.** The Bidder's original evaluated score, for such requirements, will be the only score used to determine the Bidder's lowest cost-per-weighted point score.

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- v. Insert a new paragraph 3.1.2.13

The Bidder's original evaluated VP Score although not a mandatory or point-rated requirement having a minimum score but rather an eligibility to receive up to one hundred (100) Value Proposition Points (VPP) will not change as a result of the additional or different information submitted by non-responsive Bidders in response to the Report

B. Questions and Answers**Question 357**

Please confirm that Canada will provide each Bidder with copies of all test reports and results of tests for their shelters performed by the Third Party in accordance with Vol 1, App BB in a reasonable time after the third party verification? It is noted that responses to questions 131 and 149 etc. state that results can be used to prove compliance post contract but in order to do so the Bidder must receive the results.

Response:

Upon request, third party test reports will be available to the bidder during the briefing process. The Third Party Test report including the technical proposal will form part of the contract.

Question 358

Response to Question 322: Please advise whether the test performed on the existing TEMS shelter was performed on one section of TEMS?

Response:

The test was conducted on four TEMS sections. The Effective Floor Area for one section is 10.76 m².

Question 359

Response to Question 322: Please advise the number and size of windows and doors that were on the TEMS shelter that was the test subject described in the response to Q322?

Response:

The total number of windows and doors on four (4) TEMS sections are eleven (11) Windows and four (3) doors. The size of each window without the frame is 24" X 20" and with frame 30.5" X 26.5". The size of the soft door is 171" X 68 -7/16". The door was insulated with no insulation on the door zipper area.

Question 360

Response to Question 322: Please advise whether the test performed on the existing TEMS shelter was performed on a TEMS with an insulation liner or just the outer skin?

Response:

The test performed on the existing TEMS was performed with an insulation liner and the outer skin.

Question 361

Response to Question 322: Please confirm that the heat loads specified for the three shelter sizes only apply to the 56C temperature differential under the test conditions of the third party verification and not to the requirement to meet RVM article 3.18.1?

Response:

Incorrect. The temperature difference of 56C is used to determine the U Factor in the third party verification test and has nothing to do with requirement RVM article 3.18.1 in which the contractor shall design the shelter and the heater to be able to achieve an interior shelter temperature between 18C and 23C within 2 hours of starting the heater during climatic condition of categories C0, C1, C2 and C3.

Question 362

Reference Vol 1, App BB, 6.7.6: Please amend sub article 1 by adding at the end of the sentence: "...on a surface comprising 2" Styrofoam insulated flooring with ¾" plywood."

Response:

Reference Vol 1, App BB, Para 6.7.6 article 1 is amended to read as follows:

"1. The Bidder personnel will position the office shelter inside climate chamber on surface comprising 1 ½" Styrofoam insulated flooring with ¾" plywood."

The Styrofoam thickness was verified on the test conducted on TEMS and it was 1 ½" and not 2".

Question 363

Response to Question 322: Please provide a copy of the test report for the test performed on the TEMS as described in the response to Q322?

Response:

The test report performed on the TEMS will not be provided.

Question 364

Reference the answer to Question 122 in Amendment 4: The test distances (specifically those for the sand terrain, Belgian and Granite Block) specified by Canada in the answer to question 122 in Amendment 4, would seem to be unreasonable, given the track options available at the NRC (see below) and may place undue stress and wear and tear on the vehicle understood to be provided by Canada to be used for the testing. Can Canada please confirm what distances are required to demonstrate compliance to Vol 2, App AA, 1.24.3.1?

NRC track options:

Sand Terrain - approx. 100m x 100m

Gravel Terrain - approx. 1.6Km figure 8 track

Side Slopes - approx. 300m split into 20%, 30%, and 40% slopes

Belgian Pave - approx. 250m

Granite Block - approx. 250m

Concrete Sine wave - approx. 250m (125m straight, 125m with 12-degree offset)

Response:

Reference the answer to Question 122 and 335. The values provided in DND answers are correct and the information obtained by the bidders on NRC track options is also correct. The contractor needs to perform multiple circuits to meet the specified distances.

Question 365

Further to the recent amendments 4 and 5 to the HQSS Project Ref W8476-155245 we would like to request a 45 day extension to the bid period. There are a number of areas that have significantly changed the cost profile and potentially impacted the technical solution that need to be addressed to ensure that we achieve best value for Canada and maximise our Canadian content. Our issues lie mainly with our Canadian sub contract base, most of which are yet to finalise technical solutions, provide prices, parts lists and CCV so that we can start to fully integrate our systems and the ISS package. Most of our team has been set back due to various technical changes I.e. The U factor, lighting configuration clarification etc, as well as the time to re assess the changes and update the system SOW and associated management documentation.

Response:

Canada will not extend the bid period based on this request.

Question 366

Paragraphs 5.4.1.1, 5.4.2.1, and 5.4.3.1 all refer to hard-sided storage cases for the sub-kits of the Tactical Lighting Kit. Each of those paragraphs refers to the hard-sided storage cases requiring "sufficient handles for 2-person lift." Some of these sub-kits are so light that they will not require 2-person lift. According to MIL-STD-1472, paragraph 5.8.6.3.8, a package with one handle weighing less than 13.6kg can be carried in one hand by one person (male or female) for over 10 metres. We would thus request that Canada allow any Tactical Lighting sub-kit hard-sided storage case under 13.6kg to have only one handle. Putting more than one handle on such a small hard-sided storage case would require a custom designed case, which would raise the costs to Canada significantly. Is this acceptable?"

Response:

Confirmed. Any Tactical Lighting sub-kit hard-sided storage case of total weight of 13.6kg or less shall have at least one carrying handle in accordance with MIL-STD-1472, paragraph 5.8.6.3.8.

Question 367

In regards to the requirement of the use of a GFCI on the "Lighting and Power Panel" as per Amendment #5, question 210. CSA C22.2 No. 144.1-06 will be officially updated on September 29, 2015. Changes to the specifications required the GFCI manufacturers to change their designs significantly. These changes also mean that GFCIs that will be certified under the updated CSA standards are no longer -40C rated as per the requirement in section 1.40.2.1.1.1.

See attached documentation for support from three major GFCI manufacturers. Each is only rated to -35C. With this recent change the GFCI as per section 5.4.1.4 and 5.4.1.4.1 could no longer be rated to -40C. While it may be possible to operate these items at the reduced temperature, the manufacturer warranties for such items would be void. Operation at the lower temperature use could not guarantee the operation of the GFCI as it will itself contain its own self-testing circuitry, which could make it inoperable.

Could TA issue waiver or special requirement in regards to the GFCIs within the project?

Response:

Para 5.4.1.4.1 of Appendix AA to Annex A, Volume 2 is amended to read:

" 5.4.1.4.1 Each Power Outlet Receptacle Assembly shall include Ground Fault Circuit Interrupter (GFCI) DUPLEX RECEPTACLE THAT IS NEMA 5-20RA type. The outlet receptacle shall be certified to CSA standard C22.2 No. 144.1-6 "

With this amendment any change to CSA requirement such as the low temperature rating will be acceptable.

Question 368

In regards to the requirement of the use of a GFCI on the Lighting and Power Panel sub-kit, as per Amendment #5, question 210, could Canada consider the circuit protection of standard receptacles (as per section 5.4.3.2.1) on the Lighting and Power Panel via NEMA 3R outdoor rated circuit breakers instead of GFCIs for each receptacle?

Response:

Subject to the CSA approval of Lighting and Power Panel, Canada will accept standard circuit protection receptacles (as per section 5.4.3.2.1) on the Lighting and Power Panel via NEMA 3R outdoor rated circuit breakers instead of GFCIs for each receptacle.

Question 369

The Point Scoring criterion for the floor area of the tents only appears in the NRC verification table volume 1 Annex B Appendix BA Section 5 Lines 2.12.8.2 to 2.1.11.3. There is no mention of the achieved floor areas in the SOW or technical point scoring tables other than mandatory max and min sizes. This does not seem to be a logical approach.

Response:

The HQSS-RVM, Appendix AA to Annex A to Volume 2 HQSS Acquisition Resulting Contract, paragraph 2.1.8.1, specifies 800ft² as the mandatory minimum Effective Floor Area for the Operations Shelter, whereas paragraph 2.1.8.2 specifies the rated requirement for the Operations Shelter which is an acceptable range of Effective Floor Area between 800ft² to 1,000ft², with the largest size awarded the most points.

The HQSS-RVM, Appendix AA to Annex A to Volume 2 HQSS Acquisition Resulting Contract, paragraph 2.1.11.2, specifies 50ft² as the mandatory minimum Effective Floor Area for the Shelter Connector Hub, whereas paragraph 2.1.11.3 specifies the rated requirement which is an acceptable range of Effective Floor Area between 50ft² to 150ft², with the largest size shelter awarded the most points.

Please note the references below are amended as follows:

HQSS Acquisition and In-Service Evaluation, Appendix BA to Annex B to Volume 1 Bidders Instructions and Requirements, Table 5 of Attachment 2 - NRC Verification (Technical) Point Rated Criteria:

DELETE:

"2.12.8.2 The Operations Shelter should have between 74.3 m2 (800 ft2) and 92.9 m2 (1,000 ft2) Effective Floor Area in accordance with paragraph 2.2."

INSERT:

"2.1.8.2. The Operations Shelter should have between 74.3 m2 (800 ft2) and 92.9 m2 (1,000 ft2) Effective Floor Area in accordance with paragraph 2.2."

Third Party Verification Test Plan, Appendix BB to Annex B to Volume 1 Bidders Instructions and Requirements, Appendix B: Point Rated Criteria Verification:

DELETE:

2.12.8.2 The Operations Shelter should have between 74.3 m2 (800 ft2) and 92.9 m2 (1,000 ft2) Effective Floor Area in accordance with paragraph 2.2.

INSERT:

2.1.8.2. The Operations Shelter should have between 74.3 m2 (800 ft2) and 92.9 m2 (1,000 ft2) Effective Floor Area in accordance with paragraph 2.2.

Question 370

Reference: Volume III - Annex B - Appendix BC - Catalogue of Spares and Consumables - Note 3 (old version of appendix) - "These are estimated quantities used for evaluation purposes only. Canada is under no obligation for these estimated quantities."

Under Amendment 3, a new version of Appendix BC was released. In this version there is no longer a note 3 which is stated above in the reference. There are quantities and items noted on the new appendix. In the ISS proposal, the contractor is also supposed to identify its own spares listing which includes the contractor's suggested items and quantities.

Request: Is the contractor supposed to propose the items and quantities noted in Appendix BC for evaluation purposes only? After contract award, will Appendix BC then be negotiated based on the submitted ISS spares listing?

Response:

Bidders shall not change any quantities or item descriptions in the Price Schedules. The quantiles shown in Appendix BC to Annex B of Volume 3 are Estimated Annual Quantities. The prices submitted by bidders for the Catalogue of Spares and Consumables will become contract prices. After contract award, prices for spares, consumables and equipment added to Appendix BC Catalogue of Spares and Consumables shall reflect the contractor's all-inclusive laid down cost plus applicable mark-up quoted by the bidder as per Volume 3, Annex B, Appendix BE.

Question 371

Reference: Volume II - Annex A - Appendix AA - HQSS Requirement Verification Matrix Paragraph 3.3.21 lists a mandatory requirement of: Supply and return Air Ducts shall be provided with integral end caps on each end for transport and storage which shall be fixed to the External Air Duct.

Paragraph 3.24.6 lists a desirable requirement of: For transport and storage, supply and return External Air Ducts should be stored within the Heater it is attached to during operation.

Request: If the contractor meets the desirable requirement of storing ducts inside the Heater or ECU, are the integral end caps required? With the ducts stored inside they will be protected from debris.

Response:

The end caps are required to be on the equipment and not on the Air ducts. Please note Para 3.3.21 of Appendix AA to Annex A, Volume 2 is amended to read:

"3.3.21 the supply and return air opening on the Heater and the air-conditioning unit shall be supplied with end cap covers opening to protect the Heater / air-conditioning unit from dust and weather conditions during transportation and storage. The end cap cover opening shall be tethered to the Heater / air-conditioning unit."

Question 372

Reference: In HQSS Amendment 004 the response by DND to question 166 was:

Section 3.23.2.1 is amended to read: "3.23.2.1 The Heater shall not function without remote control panel attached / connected to the heater."

Reference: Paragraph 3.23.1 of the verification matrix: "The Heater(s) of each Shelter (Operations Shelter, Planning Shelter and Office Shelter) shall be controllable from: the Heater itself; and a control panel located inside the Shelter (i.e. In-Shelter Control/Display Panel)"

Request: To reduce the cost to DND, can the requirement for replicated control of the heater be eliminated by providing control only from the remote unit, since per Amendment 004 it must be connected to the heater in order for the heater to function.

Response:

No change to the requirement. The intent of requirement 3.23.2.1 is not to operate the heater without the remote control CO monitor attached to the heater to comply with the CSA regulation, and to have a fail-safe design incorporated in the system. The heater remote control shall contain the room temperature thermostat and the CO monitor. These are the controls needed on the remote control.

Question 373

Reference:

2003 Volume 2 - Annex A - Appendix AA - HQSS Requirement Verification Matrix Paragraph 4.13.2.1 states: The Semi-Rigid Flooring material shall have a resistance to ground between 1×10^6 ohms and 1×10^9 ohms in accordance with standard ANSI/ESD S7.1-2005, Floor Materials Characterization of Materials.

It is possible to achieve a resistance to ground of 1×10^9 ohms, however, the additives needed to get this value are very expensive, and would double the cost of each flooring segment.

Additionally, if the requirement remains unchanged, the additives and materials needed to meet the requirement do not have the proven performance in the field the current material has, and will increase the risk to the customer of failures in the field.

Flooring segments are divided into four different categories, conductive, dissipative, anti-static, and insulators with the below resistance to ground values.

Conductor	Static Dissipater	Antistatic	Insulator
$10^2 - 10^6 \text{ } \Omega/\text{square}$	$10^6 - 10^{10} \text{ } \Omega/\text{square}$	$10^{10} - 10^{12} \text{ } \Omega/\text{square}$	$10^{13} - 10^{17} \text{ } \Omega/\text{square}$

Is it possible to revise the requirements to include the antistatic option so the requirement has a range of $1 \times 10^6 - 1 \times 10^{12}$ ohms resistance to ground?

Response:

Agreed. Volume 2, Annex A, Appendix AA, HQSS Requirement Verification Matrix Paragraph 4.13.2.1 is amended to read :

"4.13.2.1 The Semi-Rigid Flooring material shall have a resistance to ground between 1×10^6 ohms and 1×10^9 ohms in accordance with standard ANSI/ESD S7.1-2005, Floor Materials Characterization of Materials and the Antistatic range of $10^{10} - 10^{12} \text{ } \Omega$. "

Question 374**Reference:**

Volume 2 - Annex A - Appendix AA - HQSS Requirement Verification Matrix Paragraph 4.13.3.1 states: The coefficient of static friction of the walking surface (i.e. top surface) of the Semi-Rigid Flooring, when tested in accordance with MIL-PRF-24667C, paragraph 4.5.1.3 (as applicable), shall have at least the following minimum values:

Surface Condition initial	Coefficient of Static Friction	Surface Condition After Wear	Coefficient of Static Friction
---------------------------	--------------------------------	------------------------------	--------------------------------

Dry	.95	Dry	.90
Wet	.90	Wet	.85
Oily	.80	Oily	.75

The Coefficient of Static Friction in the requirements is derived from Table V of MIL-PRF-24667C. This "specification covers non-skid systems, coatings, and coverings for application to weather decks, flight decks, and hangar decks of air capable amphibious aviation and aviation ships" and is not applicable for a rapid deployable shelter system flooring.

This specification is for applying finishings and coatings to material to achieve a final coefficient of friction as listed above. Most flooring segments have a rough surface finish incorporated during the manufacturing process and have an inherent coefficient of friction of roughly 0.6. To achieve the required coefficients, it would require adding a non-skid coating to every flooring segment, which would significantly increase cost, and increase the risk associated with segment failure due to coatings delaminating, peeling or cracking.

MIL-D-3134J is intended for deck coverings for interior shipboard decks, which would be more applicable to this program since the flooring will be inside. Included in that specification is a table of friction coefficients listed below for reference.

The Americans with Disabilities Act (ADA) recommended that the COF standard should be 0.6, and according to Slip Resistant Flooring, a 2003 report by the Society for Protective Coatings. The report states that flooring with a high static coefficient of friction (SCOF), 0.8 to 1.0, is actually more of a slip and fall hazard because the roughness of the surface can catch the sole of footwear and cause the person walking on the surface to trip and fall.

The Deutsches Institut für Normung (DIN) 18032 Part II Standard, which is the international standard used for flooring used in sports surface lists a recommended static friction range of 0.4 - .0.6.

DND has received and is currently using flooring segments from previous programs with a static coefficient of friction of 0.6. Current feedback from DND has reflected no issues with this flooring.

Request: Taking into consideration the above referenced sources, it is suggested the requirements change to the following:

Surface Condition initial	Coefficient of Static Friction	Surface Condition After Wear	Coefficient of Static Friction
Dry	0.60	Dry	0.55

Wet	0.50	Wet	0.45
Oily	0.30	Oily	0.25

Response:

Volume 2 - Annex A - Appendix AA - HQSS Requirement Verification Matrix, Paragraph 4.13.3.1 is amended to read:

" 4.13.3.1.1 The coefficient of static friction of the walking surface (i.e. top surface) of the Semi-Rigid Flooring, when tested in accordance with MIL-PRF-24667C, paragraph 4.5.1.3 (as applicable), shall have at least the following minimum values:

4.13.3.1.1. Initial values

4.13.3.1.1.1 Minimal value for "dry" surface shall be 0.60;

4.13.3.1.1.2 Minimal value for "wet" surface shall be 0.50;

4.13.3.1.1.3 Minimal value for "oily" surface shall be 0.30

4.13.3.1.2 After Wear Values

4.13.3.1.2.1 Minimal value for "dry" surface shall be 0.55;

4.13.3.1.2.2 Minimal value for "wet" surface shall be 0.45;

4.13.3.1.2.3 Minimal value for "oily" surface shall be 0.25. "

Question 375-A

Reference:

Volume 2 - Annex A - Appendix AB - Table 1- Equipment Deliverables List

The solicitation lists specific numbers of containers with specific weight and dimension requirements; it also specifies stowage configurations of products (DID HQSS-ACQ-SE-11).

Request:

Based on the specificity of the numbers in the proposal, it seems that a basic plan on how the configurations fit in the containers must exist; would you share that information with us?

Please provide guidance that would indicate how the stowage configurations relate to the containers? For planning purposes, will you provide us with preliminary information on:

How many containers of each type are required for each configuration?

How many of each of the 16 configurations are likely to be ordered?

Response:

The contractor shall optimize the design to package the HQSS system inside the ISO containers specified in Appendix AA of Volume. The selection of container types to be used for packaging is the responsibility of the bidder.

Question 375-B

Reference: W8476-155245/A, Solicitation Amendment 004; Question 33, page 9.

Response is Agreed. Section 5.5.2.6.8 of Annex A to Volume 2 is amended to read: "The Contractor shall ship the HQSS complex types in accordance with the identified cargo containers in a short term preservation status developed within the ISS Contract under CDRL/DID HQSS-ILS-MS-03, Preservation and Preparation for Shipment Procedures."

CDRL/DID HQSS-ILS-MS-03 is still not accurate. It should be CDRL/DID HQSS-ISS-MS-03.

Please make the correction to ensure document clarity.

Response:

Reference: Para 5.5.2.6.8, Annex A, Volume 2. The typo was corrected and Para 5.5.2.6.8 is amended to read:

"The Contractor shall ship the HQSS complex types in accordance with the identified cargo containers in a short term preservation status developed within the ISS Contract under CDRL/DID HQSS-ISS-MS-03, Preservation and Preparation for Shipment Procedures."

Question 376

Appendix AD to Annex A to Volume 2, Data Items Description.

Title: Equipment Environmental Assessment (EEA), HQSS-ACQ-EH-01, Section, page 50.

4.2.3 Equipment Description

Equipment description: Provide an overview of the equipment and identify each major sub-system as per the Equipment Breakdown Structure.

For each major sub-system, identify the following: Materials incorporated into the design, including type and composition. For hazardous materials identified in the following table, provide additional information in tabular form as Annex A to the report:

Is the intent to only include the major sub-systems such as the shelters, vehicle boots, connector hubs, blackout vestibules with hard doors, and not the ancillaries such as the semi-rigid floor, tactical lighting, air conditioner, heater, and cargo containers.

Why/Impact: To have a complete equipment environmental assessment for the entire system and not just the fabric related equipment.

Response:

A complete Equipment Environmental Assessment (EEA) is required to reflect the HQSS Equipment Breakdown Structure which includes shelters and all ancillaries.

Question 377

Reference: HQSS-RVM Appendix AA to Annex A to Volume 2, paragraph 5.3. "Tactical Lighting Kit - Breakdown into Sub-Kits"

Based on the stated requirements of QTY (3) Tactical Lighting Fixtures within each Small Power Distribution & Tactical Lighting Fixture Sub-Kit (ref. para. 5.4.1.2) and QTY (4) Small Power Distribution & Tactical Lighting Fixture Sub-Kits per Tactical Lighting Kit (ref. para 5.3.1.2.1 & 5.3.1.3.1), this equals QTY (12) Tactical Lighting Fixtures per Tactical Lighting Kit.

At QTY (6800) Tactical Lighting Kits required for FOC, this totals 81,600 Tactical Lighting Fixtures.

This seems excessive. Please confirm the exact total number of Tactical Lighting Fixtures to be included within each Tactical Lighting Kit.

Response:

The HQSS requirement consists of 6800 Tactical Light Kits. Each lighting kit shall contain 3 tactical light fixtures for a total of 20400 lighting fixtures.

Question 378

Reference: Question 195 of Published Amendment #5

CND's answer to Question 195 indicates that the Firm Quantity FOC of 6800 Tactical Lighting Kits will provide a total of 81,600 Tactical Lighting Fixtures. At the maximum allowable mass per fixture of 5kg, this is 408 metric tons of Light Fixtures alone. Is it the intent of CND to create such a significant logistical burden of light fixtures when fewer can be used to achieve the same functional specifications?

It is suggested that the requirement for the number of Tactical Light Fixtures within the Small Power Distribution and Tactical Lighting Sub-Kit (para. 5.4.1.2) be changed from "Mandatory" to a "Rated" requirement, where more rated points would be awarded for using fewer light fixtures within this Sub-Kit. This will not change the total firm quantity of Tactical Lighting Kits desired, but rather only the contents within the stated Sub-Kit.

Response:

No change to the HQSS lighting requirement of 6800 tactical light kits. Based on three (3) lighting fixtures per lighting kit, a total of 20400 fixtures is required, not 81600 as referenced in the bidder question.

Question 386

Reference: Attachment BD1 to Annex B to Volume 1 ? Bidder Instructions and Requirements; Section: Tables 5 to 7, Option Periods 2, 3 and 4 for ISS ? Core Services and Tables 10 to 12, Option Periods 2, 3 and 4 for ISS - Repair & Overhaul.

Example: Table 5: In-Service Support - Core Services - Option Period 2. Instructions: Prices of OLIN 0601 to 0605 will be based on CLIN 0405 with an annual escalation of 2%.

Please confirm that the correct approach for pricing Option Periods 2, 3 and 4, is to escalate the year 5 contract price by 2% annually.

Clarification is required to determine the methodology of the bid pricing.

Response:

Confirmed. Year 5 contract prices will be escalated 2% annually by Canada during the bid evaluation to price Option Periods 2, 3, and 4.

Question 387

Reference: Annex B to Volume 2 - HQSS Acquisition Pricing Schedule; Section: Table "Firm Labour Rates for Design Changes / Additional Work Requirements"

The table does not appear to be included in the Total Evaluated Price for the HQSS, Attachment BD1 to Annex B to Volume 1 - Bidders Instructions and Requirements. Can you please confirm that this is intentional? Clarification is required to determine the methodology of the bid pricing.

Response:

Canada confirms that this is intentional.

Question 389

Reference: Data Items Description (DID), Appendix AD to Annex A to Volume 2; Section: Title: Project Management Plan, HQSS-ACQ-PM-01, page 2; 4.2.4 Work Plan, Milestone Payments - anticipated payment timing and amounts.

Volume 1, Bidders Instructions and Requirements, Section 3 (page 8), point 3.1.5 states: "Prices must appear only in the financial bid and the Industrial and Technological Benefits bid. No prices must be indicated in any other section of the bid." It is suggested as per the DID, that the draft PMP submitted with the proposal include placeholders only for this information. Please confirm that you wish this information submitted in the draft PMP with the proposal. Clarification is required to meet the DID requirement.

Response:

The Draft Project Management Plan, HQSS-ACQ-PM-01 submitted in accordance with Appendix BA to Annex B, Volume 1, shall not contain the anticipated payment amount, however, it shall contain the anticipated Milestone payment timing in the Work Plan Gantt Chart.

Question 390

Question 195 in Amendment 5 asked to clarify the quantities of sub-kits that are contained within each Tactical Lighting Kit. We want to ensure that the response given by Canada to this question is accurate as it asks industry to deliver a very large quantity of Tactical Lighting Fixtures and ancillary components. Having a very clear direction from Canada is crucial on this point.

The RFP asks industry to deliver 6,800 Tactical Lighting Kits in the initial acquisition. According to the answer to Q195, each Tactical Lighting Kit will contain 4 x Small Power Distribution and Tactical Lighting Fixture (SPDTLF) sub-kits. As per the Requirements Matrix Paragraph 5.4.1.2, each Small Power Distribution and Tactical Lighting Fixture (SPDTLF) sub-kit is to contain 3 x Tactical Lighting Fixtures.

Thus, 6,800 Kits x 4 SPDTLF sub-kits per Kit x 3 Tactical Lighting Fixtures per sub-kit: $6,800 \times 4 \times 3 = 81,600$ Tactical Lighting Fixtures.

Using similar math, the quantities for:

Light Control Stations (6,800 Kits x 1 Switch Assembly sub-kit per Kit x 4 LCS per sub-kit = 27,200), and

Lighting & Power Panels (6,800 x 1 Lighting Control Panel sub-kit per Kit x 1 L&PP per sub-kit = 6,800) that are inferred from Q195 can be derived.

Does Canada indeed seek 81,600 Tactical Lighting Fixtures, 27,200 Light Control Stations and 6,800 Lighting and Power Panels as the initial acquisition quantities? It appears that this quantity is higher than the amounts required to meet the specs for the number of shelters being acquired.

Response:

Please see the correct quantities as shown below and please note the RVM reference number.

Main Assembly	Sub-Kit	Sub-Sub Kit	Qty	Remarks
Tactical Lighting Kits (TLK)			6800	
	Small Power Distribution and Tactical Lighting Fixture Sub-Kit	6800	RVM 5.3.1.1	
	Hard-Sided Storage Case	6800	1 per Sub-Kit (RVM 5.4.1.1)	
	Tactical Light Fixture	20400	3 per Sub-kit (RVM 5.4.1.2)	
	Switch Assembly	6800	1 per Sub-Kit (RVM 5.4.1.3)	
	Power Outlet Receptacle Assembly	13600	2 per Sub-Kit (RVM 5.4.1.4)	

Extension Cord	6800	1 per Sub-Kit (RVM	
5.4.1.5)			
Integrated reusable Cable Tie-wraps	as required	(RVM 5.4.1.6)	
Switch Assembly Sub-Kit	1700	(RVM 5.3.1.2.1)	
Hard-Sided Storage Case	1700	1 per Sub-Kit (RVM	
5.4.2.1)			
Switch Assembly (Light Control Switch Station)	6800	4 per Sub-Kit (RVM	
5.4.2.2)			
Extension Cord	1700	1 per Sub-Kit (RVM	
5.4.2.3)			
Integrated reusable Cable Tie-wraps	as required	(RVM 5.4.2.4)	
Lighting Control Panel Sub-Kit			1700
(RVM 5.3.1.3.1)			
Hard-Sided Storage Case	1700	1 per Sub-Kit (RVM	
5.4.3.1)			
Lighting and Power Panel	1700	1 per Sub-Kit (RVM	
5.4.3.2)			

Question 391

Ref Vol 2 Appendix AA Annex A Section 2.4 - Is the soft shelter wall defined as the frame and the liner?

Response:

Correct. Reference Vol 2, Appendix AA, Annex A, Section 2.4; the soft shelter wall is defined as the frame, soft-wall fabric, and the liner.

Question 392

Reference Annex A Vol 2, 5.5.2.6.7 - The government indicated in Question 16 Amendment 004 that the contractor will stow and ship the HQSS complex types in the various cargo containers yet there seems to be no CLIN for the cost of this activity. Could the Government clarify where these costs should be identified?

Response:

Costs to stow and ship the HQSS complex types in the various cargo containers should be incorporated into the various HQSS equipment unit prices.

Question 393

Ref Vol 1 Sect 6.3.7 ref Fig 2 - Can the government confirm that the effective floor area is based upon dimensions without the shelter liner fitted ?

Response:

Reference to Appendix BB to Annex B Volume 1. Para 6.3.7; effective floor area is based on the internal dimensions of the shelter with the shelter liner fitted.

Question 394

Ref Vol 2 Appendix AA Annex A Section 1.38.2 - Can the government confirm the frame is grounded to protect against lightning strike?

Response:

Correct. Reference Volume 2, Appendix AA, Annex A, Section 1.38.2. If the frame is made from conductive material it needs to be grounded to protect against lightning strikes.

Question 395

Ref Vol 2 Appendix AA Annex A Section 2.4 - The requirement for shelter soft wall to meet Fed Test Method Standard 191A-5931 effectively means that carbon additive or similar conductive material needs be added into the shelter fabric, this addition may preclude RF welding of the fabric and will significantly increase fabric costs. Is the Government aware of this potential additional cost and that this is not a requirement of US or NATO military shelters?

Response:

Confirmed. Reference Volume 2, Appendix AA, Annex A, Section 2.4.2. The shelter soft wall shall meet Fed Test Method Standard 191A-5931.

Question 396

Ref Vol 2 Appendix AA Annex A Section 2.4 - It is understood that no Canadian fabric supplier of the D-80-001-204/SF-001 materials referenced in Section 2.4.3 has a fabric qualified to meet the ESD requirement. Is the Government effectively ensuring that no Canadian fabric is qualified for this requirement? Also does the Government realize that this requirement could effectively result in a sole source contract?

Response:

There will be no change due to the ESD requirement.

Question 397

Ref Vol 2 Appendix AA Annex A Section 1.25.1- Is it expected that HQSS fabric components are to be securely stacked to 254cm high in their protective valises? Are suitable cardboard boxes allowed to achieve this?

Response:

Ref Vol 2 Appendix AA Annex A Section 1.25.1- Is it expected that HQSS components including fabric components are to be securely stacked to 254cm high in their protective covers. Cardboard boxes or any packaging material temporary in nature are not allowed to achieve this requirement.

Question 398

Ref Vol 2 Appendix AA Annex A Section 1.34.6 and 1.34.8 - Now with the addition of mandatory liner are window and door replacement times the same for the shelter and liner i.e. the time for window replacement in soft walled shelter at between 11 and 20 min is also provided for window replacement in liner?

Response:

Reference Vol 2 Appendix AA Annex A Section 1.34.6 and 1.34.8. The time for window replacement in a soft walled shelter between 11 and 20 minutes includes the window liner.

Question 399

Reference: Volume 2, Appending AA to Annex A, Para. 5.4.3.2.1 "The Lighting and Power Panel shall include: six (6) receptacles, one (1) pin and sleeve connector with NSN 5935-20-000-0913; and two (2) Special Purpose receptacle configurations as required."

NSN Code 5935-20-000-0913 is linked to a specific brand of product. These pin and sleeve connectors are produced according to an international IEC standard code for compliance so that all brands can properly mate to each other. Could Canada consider a different brand, so long as it is made to the same international IEC standards as the original NSN part number?

Response:

Connectors that meet Form, Fit and Function and built in accordance with IEC 309-1 and IEC 309-2 will be acceptable substitutes.

Question 400

Reference: Appendix AE to Annex A to Volume 2 para 5.0 technical data action notice (TDAN). According to para5.0, a sample TDAN can be provided upon request. Is it possible to request a sample TDAN?

Response:

A sample TDAN has been included in the updated RDV.

Question 401

Reference: Appendix AE to Annex A to Volume 2 para 7.1.2, and 7.1.3. type selection shall be subjected to the approval of both the DND technical authority and DSCO4-3-2. Could Canada provide the type selection of ASME Y14.24?

Response:

The bidder shall obtain a copy from ASME Standard Y14.24. Please refer to Appendix AE to Annex A to Volume 2 para 1.4.2. The level of engineering drawings shall be level 3 production. The contractor shall select the proper type of the drawing to be presented for DND TA approval. The types of engineering drawings are as follows:

- Altered Item Drawing
- Source Controlled Drawing.
- Specification Controlled Drawing.

Question 402

Reference: Appendix AE to Annex A to Volume 2 according to the para 9.3.1, and 9.3.2 the DND technical authority will determine the units of measure (metric or imperial). Which measurement does Canada choose? Can Canada provide a copy of the Z234.1-00 Canadian Metric Practices Guide?

Response:

The unit of measure shall be metric in accordance with Z234.1-00 Canadian Metric Practices Guide.

Question 403

Reference: Volume 2 - Annex A - Appendix AD and Volume 1 -Annex B - Appendix BA DID HQSS-ISS-PM-02 describes an ISS Performance Status Report. Section 1.B.BA, paragraph 1.2.8 requires that a Preliminary Performance Management Plan be submitted with the proposal in accordance with that DID.

Request: Please resolve the discrepancy in the titles or further describe the intent of paragraph 1.2.8.

Response:

Reference to Volume 1, Appendix BA to Annex A, Para 1.2 Draft plan and documents, Item # 8. Preliminary Performance Management Plan is deleted.

Question 404

Reference: Volume 3, Annex A, Para 15.11 through 15.11.2.1 states:

15.11. Overhaul of Sub-Systems

15.11.2. Canvas, liners and insulation

15.11.2.1. Equipment Inspection:

- Conduct an Acceptance in-inspection;
- Conduct the estimated repair cost on equipment received for repair;
- If repair cost exceeds 75% of replacement cost, the item will be replaced rather than repaired; and
- The overhauled equipment performance shall be reinstated back to the OEM specifications.

Request: As this is an overhaul as opposed to a repair, would the Crown please confirm that if the repair cost exceeds 75% of the replacement cost that the overhaul will not be authorized and the item will be replaced through a supply transaction?

Response:

If the repair cost estimate for a sub-system component exceeds 75% of the replacement cost, then that sub-system component will be replaced rather than repaired.

Question 405

Reference: Volume 2, Appendix A, Annex AA 3.5, 3.18

It is required to test the shelters with ECUs (3.5) and Heaters (3.18) to verify temperatures can be achieved in the shelters as required.

Request: Is it acceptable for tests to be performed on one size of shelter for both cooling and heating at the required temperatures and then an analysis be used to show that the other shelter sizes will also meet the requirements? This will save the DND time and money by not performing those tests on the other two shelters while still validating the performance of the HQSS against the requirement.

Response:

It is acceptable for tests to be performed on one size of shelter for both cooling and heating at the required temperatures together with an analysis to show that the other shelter sizes will also meet the requirements.

Question 406

Reference: Volume 2, Appendix A, Annex AA 1.24.3.1; 1.24.4.1; 1.40.2.12.3; 1.40.2.12.4; 1.40.2.13.5.; 1.40.2.13.5.; Amendment 4 Question 122.

Request: It was clarified in the response to Question 122 that the packaged configurations don't have to be tested against all three vehicle types. However, testing 16 configurations can still be a monumental effort. A preliminary analysis shows that one full configuration of each type in all container types requires over 200 containers. Is it truly the desire of DND to test all 200 containers? Also, our preliminary analysis has shown that to test one container through the entire set of shock, vibration and transportation tests as shown in the tables below could take 16 work days to complete. To minimize the cost and time, and still meet the intent of the requirements, would it be acceptable to pack-out a single Tricon container with stacked equipment of all component types and run this through the entire set of shock, vibration and transportability tests applicable to the HQSS system in containers?

HQSS Shock and Vibration Tests Summary of Requirements

1.40.2.12.4. Method 514.6 Vibration, Procedure III - Large Assembly Transportation - System in Containers

1.40.2.12.2., Method 514.6 Vibration, Procedure I - General Vibration, Category 7 - Components & System in Containers
Aircraft-Jet, Vibration

1.40.2.12.3 Profile defined in Table 514.6C-V-II, C-17 Platform

1.40.2.13.5. Method 516.6 Shock, Procedure IV - Transit Drop, Table 516.6-VI & System in Containers

Tailored condition drop of 15cm.

1.40.2.13.6. Method 516.6 Shock, Procedure VII - Pendulum Impact System in Containers

HQSS Transportation Tests Summary of Requirements

1.24.3.1. Road Profile as defined in Question 122 for Logistics Vehicles - System in Containers

1.24.4.1. Train Transport -

System in Containers

Response:

It is acceptable for tests to be performed on a configuration and to conduct an engineering analysis or simulation to verify the other configurations.

Question 407

Reference: Amendment 006 additional instructions provided for Acquisition Optional Deliverable quantities.

This Amendment provides instruction to use extended price calculated with Volume 2, Annex B Acquisition Pricing Schedule; Sum of extended prices for items A - D. (That is a sample; on other lines, the range might be items A - C or A - B).

Request: We are confused by the use of ranges in this instruction. If Annex B specifies that the option quantities are: 1-50; 51-100; 101-200; and 201-665, then what are bidders supposed to sum? Are bidders meant to sum the maximum option quantity for each line? In the example above, would the correct equation for determining the quantity for the option period be $50+100+200+665 = 1015$? If not, would the Crown please explain what is meant by the sum of extended prices and provide an example of how this is meant to work?

Response:

Bidders are not to sum any prices. Bidders are only to submit unit prices in the Unit Price column based on quantity found in the corresponding Quantity column for OLINs in the Pricing Schedule. Canada will sum extended prices from Pricing Schedules during bid evaluation. For example, for OLIN 0102 Planning Shelter and Solar Shade, bidders must only provide unit prices as follows: (A) unit price based on quantity 1-50; (B) unit price based on quantity 51-100; (C) unit price based on quantity 101-200; (D) unit price based on quantity 201-665.

Question 409

Volume 2, Annex A, Appendix AA, Paragraph 3.9.2

Volume 2, Annex A, Appendix AA, Paragraph 3.9.3

Request:

Request Technical Authority approval for the below Mennekes parts to be deemed equivalent to the Hubbell parts named in the solicitation.

Requirement	Hubbell	Mennekes
A.aa 3.9.2.	HBL560B9W	ME 560B9W
2.A.aa 3.9.3.	HBL560C9W	ME 560C9W

HBL560P9W
PC 60

ME 560P9W
ME 60CAP

Response:

A409-E The Mennekes part numbers provided are approved by the Technical Authority.

Question 410

HQSS Requirements Verification Matrix, Appendix AA to Annex A to Volume 2

Section 6.15.14. Protective Finish, page 165

6.15.14.1. The exterior shell of the container shall be of colour 34094 (flat green 383) in accordance with Federal Standard 595C or Technical Authority approved equivalent.

The OEM specifications RVM reference para 1.24.1.1.2 for the TriCon (NSN 8145-01-537-6254) and para 1.24.1.1.1 BiCon (NSN 8145-01-540-5854), lists Type II CARC paint as one of the features of these storage containers. However, this does not seem to be a requirement for the other two storage containers: RVM reference para 1.24.1.1.4, 20' Standard CAF Container (NSN 8145-21-914-4367) and para 1.24.1.1.3, 20' side opening (NSN 8145-21-921-0858). Also, Paragraph 6.15.14.1 only specifies the exterior finish colour, and does not specify CARC paint as a requirement. Please confirm that CARC paint finish is not a requirement for the exterior finish of the HQSS storage containers.

Response:

Confirmed, CARC paint finish is not a requirement for the exterior finish of the HQSS storage containers.

Question 411

HQSS-RVM, Appendix AA, Annex A, Volume 2, Page 146, Paragraph 4.13.3 Static Friction

Please confirm that the semi rigid floor static friction requirement under paragraph 4.13.3 is correct. The required friction range of 0.80 - 0.95 is incredibly high for a flooring surface intended to be used under normal walking conditions, and is usually required in applications such as aircraft carriers. To meet this requirement, a secondary special coating might be required, which will significantly increase the costs for Canada.

Response:

Volume 2 - Annex A - Appendix AA - HQSS Requirement Verification Matrix, Paragraph 4.13.3.1 is amended to read:

" 4.13.3.1.1 The coefficient of static friction of the walking surface (i.e. top surface) of the Semi-Rigid Flooring, when tested in accordance with MIL-PRF-24667C, paragraph 4.5.1.3 (as applicable), shall have the following minimum values:

4.13.3.1.1. Initial values

4.13.3.1.1. 1 Minimal value for "dry" surface shall be 0.60;

4.13.3.1.1. 2 Minimal value for "wet" surface shall be 0.50;

4.13.3.1.1. 3 Minimal value for "oily" surface shall be 0.30

4.13.3.1.2 After Wear Values

4.13.3.1.2. 1 Minimal value for "dry" surface shall be 0.55;

4.13.3.1.2. 2 Minimal value for "wet" surface shall be 0.45;

4.13.3.1.2. 3 Minimal value for "oily" surface shall be 0.25. "

Question 412

HQSS-RVM, Appendix AA, Annex A, Volume 2, Page 145, Paragraph 4.13.2 Electrostatic Safety

Please confirm that the semi rigid floor electro static discharge requirement under paragraph 4.13.2 is correct. It appears to be referencing a static discharge requirement which is normally applied to solid floor construction where dissipative capability is routed from tile to tile or flooring to ground as used in medical complexes, and not portable flooring systems.

Response:

Volume 2, Annex A, Appendix AA, HQSS Requirement Verification Matrix Paragraph 4.13.2.1 is amended to read :

"4.13.2.1 The Semi-Rigid Flooring material shall have a resistance to ground between 1×10^6 ohms and 1×10^9 ohms in accordance with standard ANSI/ESD S7.1-2005, Floor Materials Characterization of Materials and the Antistatic range of $10^{10} - 10^{12}$?."

Question 416

Reference Volume 2, Annex A, Appendix AA - HQSS Requirements Verification Matrix, Paragraph 3.22.2: The Heater receptacle shall be Hubbell style HBL5278C (or Technical Authority approved equivalent) with a weatherproof cover.

Will the Technical Authority approve Hubbell HBL61CM64 as an equivalent to HBL5278C? This connector is sealed and provides a better weatherproof connector than the Hubbell connector required per 3.22.2.

Response:

The connector HBL61CM64 is an equivalent approved replacement for HBL5278C.

Question 417

Amendment # 5, page 6, question # 195 and Amendment # 7, Page 35, Question # 351:

Each Tactical Lighting Kit consisting of the following and would multiply into a massive amount of overage and over budget spending on this project:

6800 Tactical Lights Sets includes:

27,200 - Small Power Distribution and Tactical Lighting fixture sub-kit

- 81,600 Tactical Lights

- 27,200 Switch Assemblies

- 54,400 GFCIs

- 27,200 Extension Cables

- Switch Assembly Sub-kit

- 27,200 Switch Assemblies

6800 - Lighting Control Panel Sub-Kit

6800 Tactical Lighting Sets would likely use a majority of Canada's whole budget for the HQSS project. Is the desirable quantity of Tactical Lighting Kits as described in HQSS Requirements Verification Matrix, Appendix AA to Annex A Volume 2 section 5.3.1, 6800 sets or 1700 Tactical Lighting Sets? If the intent is for Canada to receive 6,800 Tactical Light Sub-Kits, then it is logical to require 1700 Tactical Lighting Sets.

Response:

Please refer to the answer provided to question 415 above.

Question 459

Transaction Sheet Template: Obligor vs Donor

It is noted that there are separate fields in the Transaction sheet template for the obligor and the donor. Please confirm that, for the purposes of the HQSS proposal, the obligor is in fact the Bidder and that the donor is the provider of that specific transaction.

Response:

Yes. The "Obligor" is the Bidder (ie: proposed contractor on the HQSS project as referenced in Article 5.6.4.1 of Appendix AA to Annex A to Volume 1 and Appendix AB to Annex A to Volume 1). The "Donor" is the company that provides the business activity outlined in a specific Transaction to a Recipient company. (Note that the "Donor" must be an Eligible Party as defined in Article 7 of Annex D to Volume 2 and Article 7 of Annex D to Volume 3).

Question 460

Transaction Sheet Template: CCV overview

One of the fields in section 6 (Eligibility Criteria) is entitled "Other - CCV Overview". To what does this refer to? Is this field requirement to provide the methodology and process by which the CCV of the Transaction was determined?

Response:

In Section 6 of the transaction sheet (Eligibility Criteria) located in Appendix DC to Annex D to Volume 2 and Appendix DC to Annex D to Volume 3, the field "Other - CCV Overview" requires an explanation of the breakdown of the Canadian Content Value (CCV) of the transaction, including an outline of the methodology used to calculate the CCV. The methodology for calculating the CCV is found in Article 6 of Annex D to Volume 2 and Article 6 of Annex D to Volume 3.

Question 461

Transaction Sheet Template: CCV % of Recipient

One of the fields in section 9 (Valuation and Time Phasing) is entitled "Canadian Content Value (CCV) % of Recipient. Please confirm that this field's requirement is to provide the CCV value of the Transaction in a percentage rather than dollars format (as per the last field in the Template entitled "Total CCV \$ of the Transaction")?

Response:

In Section 9 of the transaction sheet (Valuation and Time Phasing) located in Appendix DC to Annex D to Volume 2 and Appendix DC to Annex D to Volume 3, the field "Canadian Content Value (CCV) % of Recipient" requires expressing the CCV as a percentage of the total value of the transaction.