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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.

Comments - Commentaires

Vendor/Firm Name and Address
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Issuing Office - Bureau de distribution
Electronics, Simulators and Defence Systems Div.
/Division des systèmes électroniques et des systèmes de
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11 Laurier St. / 11, rue Laurier
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K1A 0S5

Title - Sujet Tactical Headquarters Shelter Sys	
Solicitation No. - N° de l'invitation W8476-13HQSS/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client W8476-13HQSS	Date 2012-11-02
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-024-23082	
File No. - N° de dossier 024qf.W8476-13HQSS	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-30	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Gagné, Annamarie	Buyer Id - Id de l'acheteur 024qf
Telephone No. - N° de téléphone (819) 956-0582 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

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Letter of Interest Amendment No. 005 is issued to:

- 1) Provide Industry with information on acquiring a copy of the Industry Day Presentation;
- 2) Release changes to the Technical Specifications, as presented during Industry Day; and
- 3) Provide Questions and Answers (Q&A) #1 to 24, as presented during Industry Day.

1) Industry Day Presentation

Suppliers who wish to acquire a copy of the Industry Day Presentation are required to submit their request to PWGSC. Prior to being provided a copy of this presentation, suppliers will be required to sign an industry engagement agreement, if they have not already done so. This agreement will be provided upon supplier's request for copy of the Industry Day presentation.

2) CHANGES TO TECHNICAL SPECIFICATIONS:

ORIGINAL VERSION (LOI, Page 5):

- From the commencement of a shelter's set-up, six soldiers, with only one being familiar with the system, must be able to be under canopy within 20 minutes.

CHANGE:

- From the commencement of the Operations Shelter's set-up, eight soldiers or fewer, with only one being familiar with the system, must be able to be under canopy within 20 minutes.

ORIGINAL VERSION (Annex A, Pages 5, 9 and 43):

- Handling by six or fewer soldiers without any special tools or handling equipment;
- The HQSS shall be capable of being assembled by not more than six soldiers without the use of any special tools or the use of any material handling equipment.
- The HQSS shall be designed to be unloaded, unpacked, set up, struck, packed up and loaded into CF logistics vehicles by six soldiers wearing CF Arctic clothing.
- Operations Shelters, Planning Shelters, Office Shelters, Vestibules, Shelter Interfaces and Vehicle Shelters, along with all ancillary equipment, shall be capable of being assembled at night by not more than six soldiers, using only one head-mounted tactical light and one hand-held flashlight, both lights including coloured filters.

CHANGE:

- For the Operations Shelter: Eight soldiers or fewer are permitted.

ORIGINAL VERSION (Annex A, Page 9):

- Operations Shelters, Planning Shelters, and Office Shelters shall be capable of Basic Erection by not more than six suitably trained or supervised soldiers, in 20 minutes or less, without the use of any Special Tools.

CHANGE:

- From the commencement of the Planning Shelter or Office Shelter set-up, six soldiers, with only one being familiar with the system, must be able to be 'under canopy' within 20 minutes, without the use of any Special Tools.
From the commencement of the Operations Shelter set-up, eight soldiers, with only one being familiar with the system, must be able to be 'under canopy' within 20 minutes, without the use of any Special Tools.

Solicitation No. - N° de l'invitation

W8476-13HQSS/A

Amd. No. - N° de la modif.

005

Buyer ID - Id de l'acheteur

024qf

Client Ref. No. - N° de réf. du client

W8476-13HQSS

File No. - N° du dossier

024qfW8476-13HQSS

CCC No./N° CCC - FMS No/ N° VME

'Under canopy' is defined as the shelter including framework, all liners, and insulation, erected and secured to the ground, using a staking system (or other means) to resist wind lift up to 40 km/hr.

ORIGINAL VERSION (Annex A, Page 2 (Note 6)):

- Packaging: the HQSS will be delivered as a containerized system using 20-foot sea Containers.

CHANGE:

- Packaging: the HQSS will be delivered as a containerized system using containers of potentially different sizes.
-

ORIGINAL VERSION (Annex A, Page 5):

- Multiple movements within the same mission

CHANGE:

- The HQSS will be deployed in an outdoor military environment for 18 weeks per year. The HQSS must be capable of operation 168 hrs per week. The HQSS must be capable of being moved and set-up 36 times per year and stricken-down 36 times per year.
-

ORIGINAL VERSION (Annex A, Page 6):

- The Contractor shall design the HQSS to allow for shelter entry and egress of the CF litter carrier, NSN 6530-01-591-9636, without causing harm to a litter-borne patient.

CHANGE:

- The HQSS to allow for shelter entry and egress of the CF litter carrier, NSN 6530-01-497-5607, without causing harm to a litter-borne patient.
-

ORIGINAL VERSION (Annex A, Page 12):

- The Effective Floor Area of a shelter shall be defined as that area with an enclosed clear height of 183cm, when the shelter is set up on a flat level surface without any semi-rigid flooring installed.

CHANGE:

- The Effective Floor Area of a shelter shall be defined as that area with an enclosed clear height of at least 183cm, when the shelter is set up on a flat level surface with the Semi-Rigid Flooring system and Fabric Flooring installed.
-

ORIGINAL VERSION (Annex A, Page 22):

- Operations Shelters, Planning Shelters, and Office Shelters shall provide a clear aisle height of at least 200cm, measured with the Semi-Rigid Flooring system installed.

CHANGE:

- Operations Shelters, Planning Shelters, and Office Shelters shall provide a clear aisle height of at least 200cm, measured with the Semi-Rigid Flooring system and Fabric Flooring installed.
-

ORIGINAL VERSION (Annex A - New requirement):

- Not applicable

CHANGE:

- Doors

Each door opening must include double doors. Each set of double doors (soft doors and hard doors) must swing a clear width opening of at least: 1.68 m (~ 66 in or 5.5 ft).

ORIGINAL VERSION (Annex B, Page 4):

- The Tactical Lighting System shall operate over the temperature range of -40C to +49C. System must operate from -40C to +49C.

CHANGE:

- Requirement removed
-

ORIGINAL VERSION (Annex B, Page 4):

- The Tactical Lighting System should operate over the full operating temperature range of the HQSS System. System should operate from -50C to +49C.

CHANGE:

- The Tactical Lighting System must operate over the full operating temperature range of the HQSS which is from -51C to +49C.
-

ORIGINAL VERSION (Annex C, Page 8):

- The Semi-Rigid Flooring shall be capable of through penetration by a 2cm dia spike, without shattering, at -50C°.

CHANGE:

- The Semi-Rigid Flooring shall be capable of through penetration by a 2cm diameter spike, without shattering, at -51C°.
-

ORIGINAL VERSION (Annex C, Page 10):

- The Semi-Rigid Flooring system should consist of a single part number.

CHANGE:

- The Semi-Rigid Flooring system must consist of a single part number. All floor segments must be identical.
-

ORIGINAL VERSION (Annex D, Page 3 (Note 2)):

- Medical HVAC requirement was removed and then reinserted after further discussion among system clients.

CHANGE:

- Medical HVAC requirement is removed (i.e pages 52, 53 and 54 of Annex D are deleted).
-

ORIGINAL VERSION (Annex D, Page 3 (Note 6)):

- The HQSS project team wishes to emphasize to industry that the -50C cold start requirement for the Diesel Fired Space Heater, is an essential and non-negotiable requirement.

CHANGE:

- The HQSS project team wishes to emphasize to industry that the -51C cold start requirement for the Diesel Fired Space Heater, is an essential and non-negotiable requirement.
-

ORIGINAL VERSION (Annex D, Page 4 (Note 8):

- The HQSS Project team is considering requiring a single size (capacity) of cooling unit to be provided, for the purposes of a standardized fleet.

CHANGE:

- The HQSS Project team will require a single size (capacity) of cooling unit to be provided, for the purposes of a standardized fleet.

ORIGINAL VERSION (Annex D, Page 27):

- The HVAC System shall filter the air to a level of MERV 14.

CHANGE:

- The HVAC System shall filter the air to a level of MERV 6 or better.

ORIGINAL VERSION (Annex D, Page 33):

- The HVAC System should provide a maximum noise level of TBD at a distance of 3m in any direction from the unit.

CHANGE:

- The HVAC System must provide a maximum noise level of 59db Sound Pressure Level at a distance of 3m in any direction from the unit.

The HVAC System should provide a maximum noise level of 41db Sound Pressure Level at a distance of 3m in any direction from the unit. For this desirable requirement, it is acceptable to propose a sound enclosure, providing it includes access doors.

ORIGINAL VERSION (Annex D - New requirement):

- Not applicable.

Change:

- Solar Shade

There is a requirement to provide a solar shade for the cooling unit. The solar shade must be provided in colour #33446 (tan) as per FED-STD-595 (latest edition) or TA approved equivalent.

3. QUESTIONS AND ANSWERS (Q&A)

Q1. I read through the LOI but couldn't find the specification for ceiling height? Is there one?

- A1. Shelter maximum height is not set. Attention is drawn to LOI, Annex A:
- P.1 - Large screen display dimensions with height of 209 cm;
 - P.12 - Effective floor area of all shelters shall have a clear height of 183 cm; and
 - P.22 - All shelters shall provide a clear aisle height of 200 cm.

In addition to the specifications above, the shelters must also be capable of accommodating lighting fixtures and any HVAC components which do not impede on these sizes. Note that these systems will be used in a 'Tactical' environment.

Q2. Can you please tell me if we will be receiving the ILS requirements as part of this LOI? This is a very important component of this project as a whole.

A2. Suppliers are directed to the Annex E, In-Service Support document released with LOI Amendment 001.

Q3. The ILS portion is a significant portion of the delivery of this contract based on previous experience and results in a significant contribution to the overall project budget. The LOI is lacking in many ways for us to properly assess this opportunity. This LOI mainly speaks to the requirements of the desired products and IRB's.

A3. Refer to Q2.

Q4. With respect to the Flooring Safety Requirements what are the targeted values for Flame Spread Values (FSV) and Smoke Development Values (SDV)?

A4. The targeted values for Flame Spread Rating (FSR) and Smoke Developed Classification (SDC) are: FSR: 300 and SDC: 300. Flooring materials shall be tested on the floor of the tunnel in conformance with provisions of CAN/ULC-102.2 "Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies".

Q5. Please clarify the switching requirements for the lighting component. Does DND require that there is one central switch that controls the lighting modes for all of the fixtures in each shelter, or does the central switch simply control power on/off functions and the individual light fixtures have controls for their own lighting mode?

A5. There is a requirement to select the lighting mode (covert or normal) and on/off function for all fixtures in each shelter via a light switch at every entrance point of a shelter and interconnection. This is in addition to an on/off switch on each fixture. Emergency mode will be automatically activated when power-loss is detected.

Q6. There is a requirement for the light fixtures not to emit EMI that can be detected or amplified by a GEN III device or better when in Covert mode. The clause states that the detection or amplification cannot be within 30M of the fixtures (i.e. between 0M and 30M). Can you please confirm that this is the requirement, or should the spec have been written that the detection or amplification cannot be outside of 30M of the fixtures (i.e. further than 30M).

A6. Cannot be detected 30 meters from the shelter wall.

Q7. Project Scope - LOI Section 3

What test method(s) will Canada employ on suppliers proposed HQSS equipment to establish "Climate Protection" performance, and what metric(s) will be stipulated as the qualification standard for this requirement?

A7. Will be defined within RFP/SOW, which will include the test procedures.

Q8. Project Scope - LOI Section 3

The US Army under their Force Sustainment Systems program has completed extreme weather performance testing at the US Army Natick Soldier System Center. Has the HQSS program office completed a review of performance reports on shelter systems tested by the US Army, and what consideration has been given to using these test methods or test facilities to evaluate performance of the HQSS systems?

A8. No consideration has been given to date.

Q9. Project Scope - LOI Section 3

How will Canada test and measure the maintenance of insulating properties of the shelter constructions through multiple set-ups and teardowns in connection to the "Set-up/Tear Down Simplicity" requirement? What performance metric will you stipulate as the qualification standard for this requirement?

A9. If applicable, this will be defined within the RFP/SOW.

Q10. Shelter SOW & Spec - Page 32

What test method(s) will Canada employ to establish the mould, mildew, and fungus resistance of the proposed shelter construction, and what metric(s) will be stipulated as the qualification standard for this requirement?

A10. Details to follow in RFP/SOW.

Q11. Shelter SOW & Spec - Page 32

How will Canada measure mould/mildew/fungus performance of the individual components within the construction of the "Softwall" portion of the shelter, and what performance metric(s) will be stipulated for this requirement?

A11. Details to follow in RFP/SOW.

Q12. Shelter SOW & Spec - Page 45

What test method(s) will Canada employ to establish the fire resistance performance of each individual insulation layer (inner construction) of the proposed softwall construction? What metric(s) will be stipulated as the qualification standard for this requirement?

A12. Details to follow in RFP/SOW, but Certification may be required.

Q13. Shelter SOW & Spec - Page 45

What consideration will be given to measuring flame resistance of the individual insulation layer using the U.S. Military Modular General Purpose Tent System (MGPTS) Requirement for ASTM D-6413 Vertical Burn?

A13. Equipment shall be certified by the CSA or an accredited organisation approved by the CSA, such as UL.

Q14. Shelter SOW & Spec - Page 45

In the context of the "Repair Simplicity" requirement, how does Canada plan to test and measure the fire resistance of a proposed shelter system when either the outer layer or inner layer becomes compromised during use? What fire resistance performance requirement(s) will be specified for the final system in this condition?

A14. Details to follow in RFP/SOW, but Certification may be required.

Q15. What are the procedures to present updated or alternate technology and/or methods to the crown of producing the desired operational result of various sub systems outlined in the Letter of Interest document?

A15. The LOI response, deliverable through PWGSC.

Q16. Tactical Lighting SOW & Spec - Page 5

If the strap is permanently attached to the fixture and they become damaged how are they to be repaired or replaced when in the field? Suggestion; for the straps to be semi-permanently attached, or additional straps to be supplied that are no longer permanently attached.

A16. No requirement for straps to be permanently attached. They must however be integral (part of) the fixture and not loose.

Q17. Tactical Lighting SOW & Spec - Page 9

After testing, the requirement of 40 lux for the Covert Mode color of light is considered to be too bright. If sufficient lighting levels can be proved by test or demo, could the requirement of the luminance be reduced to 20 lux over 80% of a horizontal plane located 75cm above floor level?

A17. Industry requested to clarify 'too bright' in which condition /state, measured against which criteria. Final specifications in RFP/SOW.

Q18. Tactical Lighting SOW & Spec - Page 10

After testing, the requirement of 30 lux for the Emergency Mode the lux level is considered to be too great of a power draw for the supplied back up emergency power system that is reasonably acceptable with the lighting system. The physical size of the capacitive system to allow an output of 30lux for 90 seconds would perhaps be larger than the light itself and require a significant amount of time to become fully charged. If sufficient lighting levels can be proved by test or demo, could the requirement of the luminance be reduced to 3 lux over 80% of a horizontal plane located 75cm above floor level?

A18. Amendment: ...When operating in Emergency Mode, the Tactical Lighting System shall provide a minimum luminance level of 10 Lux over 100% of effective floor area at ground level, with both temporary flooring systems fitted.

Q19. Tactical Lighting SOW & Spec - Page 10

There is currently no provision for the amount of time required for the back-up system to become fully charge when it has been discharged. Is it practical for the DND to add the requirement of the charge rate to the HQSS Tactical Lighting System requirements? Could the statement be added that the Emergency Mode shall become fully charged after being continuously connected to a 120VAC power source for 30 minutes?

A19. A statement to this effect will be included within the RFP/SOW.

Q20. Tactical Lighting SOW & Spec - Pages 4 and 17

Page 4: "...temperature range of -40C to +49C"

Page 17: "The maximum surface temperature of a Tactical Lighting Fixture shall not exceed 60C when operating."

Does the standard for maximum surface temperature apply when there is an ambient temperature of 49C? This would mean that the light can be no more than 11C above the ambient temperature.

A20. Technically yes. However, industry feedback invited on this point. Please note that the temperature range has been updated (-51C to +49C) as per the Industry Day presentation.

Q21. Tactical Lighting SOW & Spec - Page 3

Page 3: "... the on/off lighting function in each shelter can be manually controlled by a single switch located near a main entrance to the shelter."

Should Emergency Mode be activated when this main switched is turned off? I.e., Will this switch effectively act as a "wall switch" that cuts power to the whole system in the same way a power outage would? Or do we need to add extra circuitry to each light so that when the main switch is turned off, the Emergency Mode does not get activated?

A21. As per Q/A5. Emergency mode will not be switch operated, but power-loss activated. Therefore, the light off switch should not activate the Emergency mode.

Q22. Tactical Lighting SOW & Spec - Page 9

Page 9: "When operating in Covert Mode, the light fixture shall not emit any electromagnetic radiation capable of being detected and amplified by Gen III or better Image Intensification devices located within 30m of the fixture."

Can we please get some clarification on this spec? Specifically, why does it specify "within 30m"? If the light "shall not emit ANY electromagnetic radiation capable of being detected... Within 30m", it should not matter how close the Gen III devices are to the fixture. Should the spec have read "...located at a distance of 30m from the fixture."?

A22. As per Q/A.6. Cannot be detected 30 meters from the shelter wall.

Q23. Could you elaborate on the IRB issue? E.g. of the 100% how much has to be direct? Indirect?

A23. The minimum Direct Industrial and Regional Benefits (IRB) percentage that the Contractor must meet by the end of the IRB Achievement Period will be specified in the Headquarters Shelter System Project Request for Proposal. (See Annex E, Article 1.1.2.)

In order for the Contractor to achieve IRB valued at 100 percent of the contract value during the IRB Achievement Period, the balance of IRB activities, over and above the minimum Direct IRB percentage, will need to be achieved through Direct and/or Indirect IRB business activities.

Q24. Could you elaborate on the how rated evaluation points will be utilized in support of Aboriginal socio-economic development?

A24. LOI Section 12 is optional at this time. It is part of the LOI to encourage aboriginal participation and the information provided with suppliers LOI response packages will assist in determining how / if a rated point system will be utilized to encourage this participation.
