



RETURN BIDS TO:
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- 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

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
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Science Procurement Directorate/Direction de
l'acquisition de travaux scientifiques
11 Laurier St. / 11, rue Laurier
11C1, Place du Portage
Gatineau, Québec K1A 0S5

Title - Sujet MEOSAR Ground Segment Phase 2	
Solicitation No. - N° de l'invitation W8474-177351/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client W8474-177351	Date 2017-02-01
GETS Reference No. - N° de référence de SEAG PW-\$\$ST-005-30676	
File No. - N° de dossier 005st.W8474-177351	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-03-02	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Byrnes, Ashley	Buyer Id - Id de l'acheteur 005st
Telephone No. - N° de téléphone (873) 469-4453 ()	FAX No. - N° de FAX (819) 997-2229
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

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This amendment is raised to address the following:

- To respond to questions received during the solicitation period; and
- To revise the solicitation accordingly, as applicable.

Questions and Answers

Q1: Paragraph 1 states: The Goose Bay MEOLUT site will include a building, antennas, and associated infrastructure located at 5 Wing Goose Bay as per the layout shown at Figure A-1 in Appendix A of this SOW. The building is expected to measure 10 m x 8 m. Up to 8 receive parabolic antennas are expected to be installed on 2.5 m x 2.5 m concrete pads at the site. And, Paragraph 1.2 Site Construction (1st point) states: Compaction and concrete pouring for the foundation of the MEOLUT building measuring 10 m x 8 m and for the concrete pads (i.e., up to 8) for the antennas measuring 2.5 m x 2.5 m each; Question: is the building size as described above proscriptive and do the same size dimensions for building and the parabolic antennae pads apply to the Riverbend site?

A1: The dimensions shown at Appendix C of the DBAC SOW were only provided as assumptions for the purpose of analyzing the environmental impact of the MEOLUT at the Goose Bay site. The specific construction and building requirements are found in section 7.5.1 of the DBAC SOW and apply equally to the Goose Bay and Riverbend sites.

Q2: Can the Crown confirm that neither the Riverbend nor the Goose Bay MEOLUT buildings require water, toilet, and sewage facilities?

A2: Neither site requires toilet and sewage facilities. Canada will not provide water at either site. If the system's design requires access to a water source, it must be provided and installed by the contractor.

Q3: Para 4.1.1.2, Article 3 – for evaluation purposes the Solicitation limits the Bidder's subcontractor to a maximum of 1. Recognizing this is a complex program where the Bidder's will draw on several subcontractors that are experts in their field can the maximum number be increased or removed all together?

A3: With respect to the Bidder's Experience clause, no, the maximum number will not be increased or removed all together. Except where expressly provided otherwise, the experience described in the bid must be as described in section 4.1.1.2 of the Solicitation. The limit in question applies only to the acceptable number of subcontractors for evaluation purposes; this does not restrict the total number of subcontractors to one. Please refer to the solicitation for further details regarding subcontractors.

Q4: List of EOC satellites for Simulation: MEOSAR Ground Segment Technical Evaluation Plan, Attachment 1/Appendix B-2/4: In the list of satellites in "Space segment (Available satellites)", the satellites 319, 401, 402, 408 and 409 do not appear while they were declared operational before the 13th of December 2016 and are then fully part of the EOC constellation. Shall we add them in our EOC simulations?

A4: Satellites 319, 401, 402, 408, and 409 can be used for the EOC simulation.

Q5: Number of Satellites required to Locate Beacon: MEOSAR Ground Segment Technical Evaluation Plan, Attachment 1/Appendix B-2/4: For the simulations, the assumptions consider that the

“Number of satellites required to Locate Beacon” is 3. How shall we interpret this assumption with respect to the single channel throughputs in 6.4.2.5, which are quite low (30% for S-band, 40% for L-band)? Shall we consider that as long as 3 satellites are commonly visible with elevation within [5°, 75°] from Beacon and above 5° for MEOLUT and tracked by the MEOLUT, they will be correctly detected, and then be usable for localization? Shall we then consider this assumption of 100% detection for single-burst localization probability calculation? Or shall we consider another single-channel throughput: our measured one, or another one you would provide (but which will have to be higher than 30% and 40% otherwise coverage area becomes very small)?

- A5: For simulation purposes, bidders may assume that beacons are visible 100% of the time when in the 5 to 75 degrees elevation range. The single channel throughput needs to be the values the bidders expect for the proposed system when it is installed at the respective MEOLUTs. This throughput value must be greater than 30% for S-band satellites and greater than 40% for L-band satellites, as per section 6.4.2.5 of the DBAC SOW, but cannot exceed the RF availability calculated and reported in M7, which cannot be equal to or greater than 100%.
- Q6: List of FOC Satellites for Simulation: MEOSAR Ground Segment Technical Evaluation Plan, Attachment 1/Appendix B-2/4 and Appendix D-3/3: Some evaluations of Appendix D require verification of performance by simulations for the FOC context. Which constellation shall we consider for that? Would it be possible to have the number of satellites per constellation, or if possible an example TLE?
- A6: The FOC simulations must only include L-band satellites. For the purpose of the FOC simulations, bidders may use up to 30 satellites (i.e. 24 Galileo and 6 Glonass) evenly distributed over the orbital plane of their respective constellation.
- Q7: ISS Tasks Authorization Work Scenario: Attachment 2/B.3: What period to we need to consider for the quotation? One year, five years?
- A7: This scenario will utilize firm, all-inclusive hourly labour rates from Year 1 of the In-Service Support period as per ATTACHMENT 2, Table B.3 – ISS Task Authorized Work Scenario. The solicitation has been updated accordingly.
- Q8: 2016 Version of Cospas/Sarsat Documents: MEOSAR DBAC SOW, Section 5.1.1: The December 2016 releases of some of the Cospas/Sarsat documents quoted in §5.1.1 (T.016, T.017, T.019, T.020 and T.022) are not available on the Cospas/Sarsat website as per today. Is it possible to have access to them by another way?
- A8: COSPAS-SARSAT documents T.016, T.017, T.019, and T.020 are available as of January 20th, 2017 on the COSPAS-SARSAT website professional page. Preliminary Issue A of COSPAS-SARSAT document T.022 will be provided upon request to the Contracting Authority referenced herein only.
- Q9: Accuracy of Ephemeris: MEOSAR DBAC SOW, Section 6.3.2.12: The requirement 6.3.2.12 states: “Receive satellite health status and orbital elements directly from the broadcast GNSS ephemerides hosting the MEOSAR payloads”, while the requirement 6.3.2.11 states: “Maintain tracking schedules and satellite orbital elements for all MEOSAR satellites accurate to within 10 centimetres and 50 nanoseconds;” The accuracy of broadcast GNSS ephemerides is around 50 centimeters (and the error may be higher for some satellites, in particular 414 and 418) so that their use do not allow to fulfil the 6.3.2.11 requirement. Shall we understand that we shall consider in addition other sources of ephemeris, more accurates, such as sp3 ones? But in such case, shall we understand that they will be provided through Cospas/Sarsat distribution network since we cannot consider internet sources (6.1.15)?

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- A9: Paragraph 6.3.2.11 of the DBAC SOW is amended as follows: "Maintain tracking schedules and satellite orbital elements for all MEOSAR satellites accurate to within 100 centimetres and 50 nanoseconds;" The DBAC SOW has been amended accordingly.
- Q10: ISS SOW: With lack of a maintenance concept in the RFP can our company assume that military personnel will be/or can be available for limited first line corrective maintenance activities?
- A10: DND personnel at each site can perform limited first line maintenance activities such as visual inspections and basic IM/IT tasks. They cannot be relied upon to perform software and hardware maintenance activities with the exception of repairs to the government-provided electrical and communications infrastructure and electromechanical systems. All maintenance to antennas and antenna-supporting structures must be performed by the contractor.
- Q11: ISS SOW: Para 6.5.4: Please provide a maintenance concept, including definition of 1st line maintenance.
- A11: The contractor is responsible for all preventative and corrective maintenance tasks at both MEOLUT sites. On-site DND personnel will maintain the facilities (i.e. the buildings and their electromechanical systems), the generators, and the utilities provided to the sites. Depending on their individual skillsets, DND personnel at each site may be able to assist the contractor with basic IM/IT tasks and provide a regular physical presence at the sites. DND personnel cannot be relied upon to repair faults or climb towers. The training provided to the personnel at each site should be limited to the set of tasks that the contractor expects on-site personnel to be able to perform.
- Q12: ISS SOW: Para 6.3.7: The contractor must provide PM and CM services, including hardware and software updates. Please confirm that any required hardware updates will be managed thru an Engineering Changes Proposal and that cost to acquire, test, install and set to work any hardware updates will be funded separately (DND 626 or other mutually agreed to instrument).
- A12: Hardware upgrades and software updates intended to improve the system's performance after commissioning will be managed through task authorizations in accordance with sections 3.8.3 and 6.8 of the ISS SOW. Software updates intended to maintain compliance with COSPAS-SARSAT standards and specifications must be provided as part of the firm fixed price preventative and corrective maintenance services in accordance with sections 6.1.1, 6.1.2, and 6.1.4 of the ISS SOW. Hardware upgrades intended to maintain compliance with the availability requirements found at sections 6.1.1 and 6.1.4 of the ISS SOW must be provided as part of the firm fixed price preventative and corrective maintenance services.
- Q13: ISS SOW: Para 6.3.9: Please confirm that site visits are to be included in the core work and not as part of the work of the FSR listed in the task authorization.
- A13: Preventative and corrective maintenance site visits must be included as part of the firm fixed price ISS scope of work.
- Q14: DBAC SOW: Para 5.2.1: Link refers to the Policy on Government Security. The reference is very broad in Nature and there is no mature Treasury Board Cyber Security Policy however, the DND Director of Information Security has established guidelines. What are the expected IT security outcomes requested by the contractor?* SA&A (Full, Partial, None)?* Negotiated Security Posture?* Expected documentation and necessary proof (Compliance versus Secure)?* Is contractor expected to upgrade system to more secure mechanisms or add on security features if needed?* Information Assurance requirements?
- A14: The ground segment solution must meet the network security requirements for the protocols listed in the DBAC SOW section 6.3.2.29. The physical security requirements can be found in section

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- 7.5.1.4.8 of the DBAC SOW. Canada does not require the contractor to perform any task related to the SA&A process.
- Q15: DBAC SOW: Para 7.3.2: More information is needed to fully understand how the contractor can "assist" Canada in adhering to the Government Security Guidelines.* Our company has expertise with ITSG-33 and SA&A requirements if needed.
- A15: Canada will take care of all tasks associated with the SA&A process for the MEOLUTs using design, maintenance, and operational data delivered by the contractor as part of the DBAC SOW.
- Q16: Attachment 2 Financial Bid presentation sheet, B.3 ISS task Authorized Work Scenario: Table B.3 of Attachment 2 does not provide for firm hourly rates for years 2 to 5. Please confirm that that firm hourly rates which will be included in Table B.3 are for evaluation purposes only and that that the actual rates to be used during year 1 to 5 are to be included in Annex D, Basis of Payment, Table B.2.2.
- A16: The firm, all-inclusive hourly rates to be proposed for each labour category in ATTACHMENT 2, *Table B.3 – ISS Task Authorized Work Scenario* will be utilized for evaluation purposes. They will also be transposed into the "Year 1" column of *Table Annex D – B2*, found in ANNEX D – Basis of Payment, section B – In-Service Support, subsection B2 – Task Authorizations, as well as into the "Year 1" column of *Table Annex D – C2*, found in ANNEX D – Basis of Payment, section C – Optional Period, sub-section C2 – Task Authorizations. For both *Table Annex D – B2* and *Table Annex D – C2*, firm, all-inclusive hourly rates for years two through five will then be calculated using the rates proposed by the bidder in year one, to be adjusted in accordance with the EPA Adjusted Price clause included in ANNEX D.
- Q17: Annex D, Basis of Payment, B2.1 Task Authorization - Firm price: Table B2.1 requires firm prices. This is unclear as task authorizations are presently unfunded and considered AWA (DND 626 or other mutually agreeable instrument) and the scope of work of task authorization is not presently defined. Please clarify requirement for firm prices in B2.1.
- A17: Tasks will be based on the firm labour rates in the applicable level of effort to be negotiated for each task. The solicitation has been updated accordingly.
- Q18: TLE Access: MEOSAR DBAC SOW, Section 6.1.15: Would you please confirm that TLE will be distributed to the MEOLUTs by the CMCC, avoiding to collect them on another source as required in 6.1.15?
- A18: TLE data will be provided to the MEOLUTs by the CMCC. Availability will be subject to the availability of the source agency.
- Q19: MEOLUT Availability: MEOSAR Ground Segment Technical Evaluation Plan – Appendix B, and MEOSAR ISS SOW, Section 6.7.8: The M11 criteria in Appendix B requires an availability per MEOLUT of 98% while the table in 6.7.8 of ISS SOW requires an availability per MEOLUT of 99%. The paragraph 6.7.8 also provides requirements on other elements that might be considered as part of the MEOLUT availability in terms of ISS (help-desk, EIE, ...), shall we consider them as contributors for the 98% calculation in Appendix B?
- A19: Table 4, Item 6 of the ISS SOW was erroneously stated and has been amended to 98%.
- Q20: Reference Beacons: MEOSAR Ground Segment Technical Requirements Section 6.1.1.1: DND to confirm that baseline is to use reference beacons provided by the Customer but that Reference beacons provided by the Customer on each MEOLUT Site can be proposed as an option.

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- A20: The requirement to provide a reference beacon at either of the MEOLUT sites is a design decision that must be made by the bidder taking into consideration the accuracy and coverage area requirements.
- Q21: Price of Spares and support tools: DBAC SOW para 3.2: Paragraph states that the contractor must deliver all required spares, support tools,...These spares are to be included in the FFP and will be paid for as part of milestones 5 and 6. 1. Please confirm that these spares are considered to be the Initial Provisioning Spares. Should the spares not be shown separately in Attachment 2 and in the Basis of Payment Annex D?
- A21: The spare parts mentioned in section 3.2 of the DBAC SOW are those parts identified in the Recommended Spare Parts List (RSPL) that are required to support the proposed ground segment solution for a period of 2 years in accordance with the provisioning requirements found at paragraphs 1.3 and 2.1.2 of Appendix F of the DBAC SOW. In accordance with Table 3 of the DBAC SOW, the RSPL must be submitted in draft form at the Critical Design Review and be submitted in final form for approval by Canada at the Factory Acceptance of the ground segment solution. There is no requirement for the bidders to separate the costs of spares in their financial proposal.
- Q22: Spares and support tools usage: DBAC SOW para 3.2: Paragraph states the contractor must deliver all required spares, support tools...Can you clarify if that Initial Provisioning Spares is for support of the system while in service for a 5-year period?
- A22: Initial set of spare parts is intended to support the system while in service (i.e. after both MEOLUTs have been commissioned) for a period of 2 years in accordance with DBAC SOW Appendix F, paragraphs 1.3 and 2.1.2.
- Q23: Size of the storage and workspace room: DBAC SOW para 7.5.1.3.1: Can the storage facility be sized according to the volume of spare parts required to support the solution?
- A23: The minimum size of the storage locker installed in any buildings at every MEOLUT sites must be no less than the dimensions specified at section 7.5.1.3.3 of the DBAC SOW. The contractor can propose a larger storage locker if it is required to accommodate the size of the spare parts expected to be housed at either site.
- Q24: UPS requirement: DBAC SOW para 7.5.1.3.7 and 7.5.1.4.7: Can CANADA clarify the UPS requirements: what equipment must be protected (MEOLUT electronic components, heating, ventilation and air conditioning?), duration.
- A24: Canada does not require that electromechanical systems (e.g. HVAC, heating) be connected to the UPS. All servers and RF processing equipment must be protected by the UPS. The UPS must be capable of powering the equipment connected to it as long as required to maintain compliance with the overall system availability requirements, taking into consideration any emergency power supply devices (i.e. generators) installed at the site by the contractor as part of its design.
- Q25: In regards to Part 4 – Evaluation Procedures and Basis of Selection, 4.1 Evaluation Procedures, can you please confirm that if some bids with a valid Canadian Content certification are withdrawn or declared non-responsive, and only one (1) bidder remains with a valid certification, will the evaluation continue with a single bid being reviewed?
- A25: The procurement process is conditionally limited to Canadian goods and/or services. The contracting officer will determine, first, if there are two or more bids with a valid Canadian content certification. In that event, the evaluation will be limited to the bids with the valid Canadian content certification; otherwise, all bids will be evaluated. If the bids with a valid Canadian content

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certification are later declared non-responsive or withdrawn, and after such there remains at least one responsive bid with a valid certification of Canadian goods and/or services, the evaluation will continue among those responsive bids which contain a valid Canadian content certification. If all bids with a valid Canadian content certification are subsequently found to be non-responsive or withdrawn, then all other bids received will be evaluated. See the *Supply Manual* Annex 3.6, Canadian Content Policy, on buyandsell.gc.ca for additional information.

Solicitation Revisions

1. At Part 7, section 7.5.1, Contracting Authority:

DELETE:

The Contracting Authority for the Contract is:

Alan Chan
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Space, Innovations and Informatics Projects Directorate
11 Laurier Street
Gatineau, Quebec
K1A 0S5

Telephone: 873-469-4457
E-mail address: alan.chan@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.

INSERT:

The Contracting Authority for the Contract is:

Ashley Byrnes
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Space, Innovations and Informatics Projects Directorate
11 Laurier Street
Gatineau, Quebec
K1A 0S5

Telephone: 873-469-4453
E-mail address: ashley.byrnes@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.

2. At ATTACHMENT 1 - TECHNICAL EVALUATION PLAN, Appendix B – Mandatory Criteria, Table B-1: Coverage Area Simulation Parameters:

DELETE:

Parameter	Value
Space Segment (Available Satellites)	301, 302, 303, 306, 308, 309, 310, 312, 315, 316, 317, 318, 323, 324, 326, 327, 329, 330, 332, 414, 418, 419, 420, 422, 424, 426, 430, 501, 502
MEOLUT Minimum Elevation Angle	5 degrees
Beacon Minimum Elevation Angle	5 degrees
Beacon Motion	Static beacons
Number of Bursts	13 transmitted Bursts
Allowable Wait Time	10 minutes (after first burst)
Start Date/Time	31 December 2018 00 :00 :00 UTC
Length of Simulation	10 days
Time Step Size	15 minutes
Grid Resolution	110 km (1 degree)
Number of Satellites Required to Locate Beacon	Minimum of 3 satellites
σ TOA	25 μ s (constant value)
σ FOA	0.2 Hz (constant value)
Maximum Elevation Angle (Beacon – Satellite)	75 degrees

Table B-1: Coverage Area Simulation Parameters

INSERT:

Parameter	Value
Space Segment (Available Satellites)	301, 302, 303, 306, 308, 309, 310, 312, 315, 316, 317, 318, 319 , 323, 324, 326, 327, 329, 330, 332, 401, 402, 408, 409 , 414, 418, 419, 420, 422, 424, 426, 430, 501, 502
MEOLUT Minimum Elevation Angle	5 degrees
Beacon Minimum Elevation Angle	5 degrees
Beacon Motion	Static beacons
Number of Bursts	13 transmitted Bursts
Allowable Wait Time	10 minutes (after first burst)
Start Date/Time	31 December 2018 00:00:00 UTC
Length of Simulation	10 days
Time Step Size	15 minutes
Grid Resolution	110 km (1 degree)
Number of Satellites Required to Locate Beacon	Minimum of 3 satellites
σ TOA	25 μ s (constant value)
σ FOA	0.2 Hz (constant value)
Maximum Elevation Angle (Beacon – Satellite)	75 degrees

Table B-1: Coverage Area Simulation Parameters

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3. At ATTACHMENT 2 - FINANCIAL BID PRESENTATION SHEET, section B.3 – ISS Task Authorized Work Scenario:

DELETE:

B.3 – ISS Task Authorized Work Scenario			
A firm, all-inclusive hourly rate.			
The total amount of applicable taxes are to be shown separately, if applicable.			
The estimated level of effort specified is only an approximation of requirements given in good faith and is provided for financial bid evaluation purposes only. It does not represent a commitment by Canada.			
Category	Estimated Level of Effort (hours/year)	Firm Hourly Rate	Extended Total
Field Service Representative (FSR) and Mobile Repair Party (MRP) – See Annex B, Section 6.8			
FSR – Field Service Representative (Bilingual)	75		
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – See Annex B, Section 6.8			
SPM – Senior Project Manager	100		
ISE – Intermediate Systems Engineer	700		
IST – Intermediate Software Technologist	1000		
CM – Configuration Manager	100		
SSE – Senior System Engineer	100		

Cost of ISS Task Authorized Work Scenario \$ (The sum of the Extended Totals as per the above table)
(Applicable Taxes Extra)

INSERT:

B.3 – ISS Task Authorized Work Scenario			
A firm, all-inclusive hourly rate.			
The total amount of applicable taxes are to be shown separately, if applicable.			
The estimated level of effort specified is only an approximation of requirements given in good faith and is provided for financial bid evaluation purposes only. It does not represent a commitment by Canada.			
Category	Estimated Level of Effort (hours/year)	Firm Hourly Rate YEAR 1	Extended Total
Field Service Representative (FSR) and Mobile Repair Party (MRP) – See Annex B, Section 6.8			
FSR – Field Service Representative (Bilingual)	75		
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – See Annex B, Section 6.8			
SPM – Senior Project Manager	100		
ISE – Intermediate Systems Engineer	700		

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IST – Intermediate Software Technologist	1000		
CM – Configuration Manager	100		
SSE – Senior System Engineer	100		

Cost of ISS Task Authorized Work Scenario \$ (The sum of the Extended Totals as per the above table)
(Applicable Taxes Extra)

4. At ANNEX A - STATEMENT OF WORK FOR THE DESIGN, BUILD AND COMMISSIONING OF MEOLUTS FOR THE MEOSAR GROUND SEGMENT, section 6.3.2.11:

DELETE:

Maintain tracking schedules and satellite orbital elements for all MEOSAR satellites accurate to within 10 centimeters and 50 nanoseconds;

INSERT:

Maintain tracking schedules and satellite orbital elements for all MEOSAR satellites accurate to within 100 centimeters and 50 nanoseconds;

5. At ANNEX B - STATEMENT OF WORK: IN-SERVICE SUPPORT FOR MEOSAR GROUND SEGMENT SYSTEM, Table 4: Availability Performance Requirements:

DELETE:

Item	Description	Minimum Availability
1	Help Desk	99.5%
2	EIE	99%
3	Each CMCC ROI	99%
4	Each MEOLUT Network Server	99%
5	Each NLP	99%
6	Each MEOLUT	99%
7	Complete MEOSAR GS system	95%

Table 4: Availability Performance Requirements

INSERT:

Item	Description	Minimum Availability
1	Help Desk	99.5%
2	EIE	99%
3	Each CMCC ROI	99%
4	Each MEOLUT Network Server	99%

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5	Each NLP	99%
6	Each MEOLUT	98%
7	Complete MEOSAR GS system	95%

Table 4: Availability Performance Requirements

6. At ANNEX D, BASIS OF PAYMENT, Section B2 - Task Authorizations:

DELETE:

B2 – Task Authorizations

Should the need arise for Task Authorization Work that is unfunded, a formal Contract Amendment will be required and will follow the process described in the Contract. Work should not be undertaken until such time funds have been added to the Contract. Such work may include:

- Field Service Representatives and Mobile Repair Parties (MRP);
- Technical Investigation and Engineering Support (TIES);
- Special Investigation and Technical Studies (SITS);
- Additional Work Arisings (AWA) including provision of replacement parts and training support.

B2.1 – Task Authorization – Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Task Authorization, the Contractor will be paid an all-inclusive firm lot price, as specified below. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

Work	Firm, All-Inclusive Lot Price (including labour, materials and supplies, equipment, travel and living, subcontracts, other direct expenses and profit).
For the Work described in the Task Authorization	\$

(B2.1) FIRM PRICE: \$ _____
(Applicable taxes extra)

B2.2 - Task Authorization – Limitation of Expenditure

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work determined in accordance with the pricing elements specified below, as specified in

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the relevant Task Authorization. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

(a) Labour

A firm, all-inclusive hourly rate.

Category	Firm Hourly Rate**				
	Year 1	Year 2	Year 3	Year 4	Year 5
Field Service Representative (FSR) and Mobile Repair Party (MRP) – Annex B Section 6.86					
FSR – Field Service Representative (Bilingual)					
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – Annex B Section 6.8					
SPM – Senior Project Manager					
ISE – Intermediate Systems Engineer					
IST – Intermediate Software Technologist					
CM – Configuration Manager					
SSE – Senior System Engineer					

Table Annex D - B2

(b) Materials and supplies - at laid down cost without markup

(c) Equipment - at laid down cost without markup

(d) Travel and living at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/index_e.asp, and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”. All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

(e) Subcontracting - at actual cost without markup

(f) Other direct expenses - at actual cost without markup

The Contractor will be required to provide, on Canada's request, one or more of the following price support, if applicable:

- a current published price list indicating the percentage discount available to Canada;
or
- copies of paid invoices for the like quality and quantity of the goods, services or both sold to other customers; or
- a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
- price or rate certifications; or

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- any other supporting documentation as requested by Canada.

(g) Profit – at officer's negotiated rates under Contract Cost Principles, 1031-2 (2012-07-16).

(B2.2) TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE: \$ _____
(Applicable taxes extra)

INSERT:

B2 – Task Authorizations

Should the need arise for Task Authorization Work that is unfunded, a formal Contract Amendment will be required and will follow the process described in the Contract. Work should not be undertaken until such time funds have been added to the Contract. Such work may include:

- Field Service Representatives and Mobile Repair Parties (MRP);
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- Special Investigation and Technical Studies (SITS);
- Additional Work Arisings (AWA) including provision of replacement parts and training support.

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work determined in accordance with the pricing elements specified below, as specified in the relevant Task Authorization. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

(a) Labour - a firm, all-inclusive hourly rate.

Category	Firm Hourly Rate**				
	Year 1	Year 2	Year 3	Year 4	Year 5
Field Service Representative (FSR) and Mobile Repair Party (MRP) – Annex B Section 6.86					
FSR – Field Service Representative (Bilingual)					
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – Annex B Section 6.8					
SPM – Senior Project Manager					
ISE – Intermediate Systems Engineer					
IST – Intermediate Software Technologist					
CM – Configuration Manager					
SSE – Senior System Engineer					

Table Annex D - B2

(b) Materials and supplies - at laid down cost without markup

(c) Equipment - at laid down cost without markup

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(d) Travel and living at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/index_e.asp, and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”. All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

(e) Subcontracting - at actual cost without markup

(f) Other direct expenses - at actual cost without markup

The Contractor will be required to provide, on Canada's request, one or more of the following price support, if applicable:

- a current published price list indicating the percentage discount available to Canada;
or
- copies of paid invoices for the like quality and quantity of the goods, services or both sold to other customers; or
- a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
- price or rate certifications; or
- any other supporting documentation as requested by Canada.

(g) Profit – at officer’s negotiated rates *as defined in the Supply Manual*.

(B2) TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE: \$ _____
(Applicable taxes extra)

7. At ANNEX D, BASIS OF PAYMENT, section C2 - Task Authorizations:

DELETE:

C2 – Task Authorizations

Should the need arise for Task Authorization Work that is unfunded, a formal Contract Amendment will be required and will follow the process described in the Contract. Work should not be undertaken until such time funds have been added to the Contract. Such work may include:

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- Technical Investigation and Engineering Support (TIES);
- Special Investigation and Technical Studies (SITS);
- Additional Work Arisings (AWA) including provision of replacement parts and training support.

C2.1 – Task Authorization – Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Task Authorization, the Contractor will be paid an all-inclusive firm lot price, as specified below. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

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Work	Firm, All-Inclusive Lot Price (including labour, materials and supplies, equipment, travel and living, subcontracts, other direct expenses and profit).
For the Work described in the Task Authorization	\$

(C2.1) FIRM PRICE: \$ _____
(Applicable taxes extra)

C2.2 - Task Authorization – Limitation of Expenditure

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work determined in accordance with the pricing elements specified below, as specified in the relevant Task Authorization. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

(a) Labour

A firm, all-inclusive hourly rate.

Category	Firm Hourly Rate**				
	Year 1	Year 2	Year 3	Year 4	Year 5
Field Service Representative (FSR) and Mobile Repair Party (MRP) – See Annex B, Section 6.8					
FSR – Field Service Representative (Bilingual)					
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – See Annex B, Sections 6.8					
SPM – Senior Project Manager					
ISE – Intermediate Systems Engineer					
IST – Intermediate Software Technologist					
CM – Configuration Manager					
SSE – Senior System Engineer					

Table Annex D - C2

(b) Materials and supplies - at laid down cost without markup

(c) Equipment - at laid down cost without markup

(d) Travel and living - at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive http://www.tbs-sct.gc.ca/hr-rh/gtla-vqcl/index_e.asp, and with the other provisions of the directive referring to “travelers”, rather than those referring to

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“employees”. All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

(e) Subcontracting - at actual cost without markup

(f) Other direct expenses - at actual cost without markup

The Contractor will be required to provide, on Canada's request, one or more of the following price support, if applicable:

- a current published price list indicating the percentage discount available to Canada; or
- copies of paid invoices for the like quality and quantity of the goods, services or both sold to other customers; or
- a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
- price or rate certifications; or
- any other supporting documentation as requested by Canada.

(g) Profit – at officer's negotiated rates under Contract Cost Principles, 1031-2 (2012-07-16).

(C2.2) TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE: \$ _____
(Applicable taxes extra)

INSERT:

C2 – Task Authorizations

Should the need arise for Task Authorization Work that is unfunded, a formal Contract Amendment will be required and will follow the process described in the Contract. Work should not be undertaken until such time funds have been added to the Contract. Such work may include:

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- Technical Investigation and Engineering Support (TIES);
- Special Investigation and Technical Studies (SITS);
- Additional Work Arisings (AWA) including provision of replacement parts and training support.

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work determined in accordance with the pricing elements specified below, as specified in the relevant Task Authorization. Customs duties are included, FOB Destination (for goods) and applicable Tax is extra.

(a) Labour: A firm, all-inclusive hourly rate.

Category	Firm Hourly Rate**				
	Year 1	Year 2	Year 3	Year 4	Year 5
Field Service Representative (FSR) and Mobile Repair Party (MRP) – See Annex B, Section 6.8					
FSR – Field Service Representative (Bilingual)					
Technical Investigation and Engineering Support (TIES), Special Investigation and Technical Studies and Additional Work Arisings – See Annex B, Sections 6.8					
SPM – Senior Project Manager					

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ISE – Intermediate Systems Engineer					
IST – Intermediate Software Technologist					
CM – Configuration Manager					
SSE – Senior System Engineer					

Table Annex D - C2

(b) Materials and supplies - at laid down cost without markup

(c) Equipment - at laid down cost without markup

(d) Travel and living - at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/index_e.asp, and with the other provisions of the directive referring to “travelers”, rather than those referring to “employees”. All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

(e) Subcontracting - at actual cost without markup

(f) Other direct expenses - at actual cost without markup

The Contractor will be required to provide, on Canada's request, one or more of the following price support, if applicable:

- a current published price list indicating the percentage discount available to Canada; or
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- a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
- price or rate certifications; or
- any other supporting documentation as requested by Canada.

(g) Profit – at officer's negotiated rates *as defined in the Supply Manual*.

(C2) TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE: \$ _____
(Applicable taxes extra)

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME