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11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
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
THIS DOCUMENT CONTAINS A SECURITY
REQUIREMENT

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
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Gatineau, Québec K1A 0S5

Title - Sujet Mercury Global Anchor Stations	
Solicitation No. - N° de l'invitation W8474-14MG25/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W8474-14MG25	Date 2013-09-12
GETS Reference No. - N° de référence de SEAG PW-\$\$ST-006-26331	
File No. - N° de dossier 006st.W8474-14MG25	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-10-02	
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: Thorsley, Mark	Buyer Id - Id de l'acheteur 006st
Telephone No. - N° de téléphone (819) 956-1772 ()	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

This amendment is raised to address the following:

- To provide a summary of questions, answers and information addressed during the Site Visits; and
- To provide additional documentation to support the site construction.

Associated changes to the Statement of Work, if needed, will follow shortly.

CRC Shirley's Bay Site Visit

Questions and Answers:

- Q1 How many hectares are available?
A1 As much as needed. Project will negotiate with CRC (land manager) for space
- Q2 Would excavated soil have to be removed?
A2 The MG Project would have to negotiate with CRC. Assume that soil would have to be removed
- Q3 Is there an humidity control requirements?
A3 Bidders are to propose a solution suitable for the environment
- Q4 Are soil surveys available?
A4 Two environmental assessment documents have been provided with the 'MGAS Responsibility Matrix'. Note that available information is provided as reference material only. They have been prepared on behalf of Canada for purposes other than Mercury Global and, in most cases, only reflect areas similar to the potential antenna locations. The Contractor remains solely responsible for all surveys, assessments (e.g. environmental, geotechnical, etc.), required prior to construction.
- Q5 What is the site access availability?
A5 24 hours, 7 days a week if needed. The contractor will need to ID personnel requiring access
- Q6 Is it common for year-round construction?
A6 The exiting facility was built over the winter. However, it is the bidder's responsibility to determine suitable construction conditions.
- Q7 Is there any EMI? Any scans for X or Ka band?
A7 It is Canada's responsibility to make the bands available.
- Q8 What is the security requirements for the perimeter fence, video surveillance, etc.?
A8 Identified in the 'MGAS Responsibility Matrix'
- Q9 Is the new facility and expansion of the existing facility or an additional site?
A9 It is desirable for the new facility to be an expansion of the existing facility, see comments in the 'MGAS Responsibility Matrix'; however, if the Bidder's proposal requires more space than is available at that location other campus real estate can be considered.
- Q10 Can the existing power box be moved if additional space is needed?
A10 No. The existing power box cannot be moved.
- Q11 Where will be power location be?
A11 Power will be brought to the specific locations identified by the contractor.

Q12 Are police checks required?

A12 Security requirements are identified in the RFP

Q13 Will building permits be required?

A13 See comments in the 'MGAS Responsibility Matrix' . Previous facility needed NCC permissions.

Q14 What is the required distance between antennas?

A14 The required distance is dependant upon the solution proposed by a bidder

Q15 Who is responsible for frequency permits?

A15 Frequency permits are the responsibility of Canada.

Q16 Any environmental concerns? Protected species, plants, etc.?

A16 See comments in the 'MGAS Responsibility Matrix'

Q17 What can be done to isolated trees in the field?

A17 The trees are naturally occuring. To be investigated if they can be removed if required by the bidder

Q18 How stable is the base power?

A18 Stable. However, backup power is the responsibility of the contractor.

Q19 Can the site be expanded into the piles of soil to the East?

A19 A question has been posed to the Land Manager with no response received to date. Assume no, but an update will provided once a response has been received.

Q20 Is natural gas or propane available down the roads?

A20 See comments in the 'MGAS Responsibility Matrix'

Q21 Satellite view is blocked by trees. Can they be chopped down?

A21 Request would have to be made to the Land Manager.

Q22 Who would be responsible for payment for utilities for the site?

A22 See comments in the 'MGAS Responsibility Matrix'

Q23 Does the site have forklifts and/or cranes?

A23 Assume that forklifts and/or cranes would need to be brought in by the contractor.

Q24 Does the site experience flooding?

A24 No expectation of flooding. Noted crushed stone at existng facility part of security requirement.

Associated Documents:

1. CRC Shirley's Bay Campus Map.pdf
2. IMIATG Facilities - Final EA Report.doc
3. REPORT 07-1122-0143-Phase I & II Shirley Bay ESA.pdf

Masstown Rx Site Visit

General Info Provided:

I1 All grooming and backup power will be the responsibility of the contractor.

I2 An X-band receive-only antenna is on site.

Questions and Answers:

Q1 Is power available for site development?

A1 Assume no power is available.

Q2 Will fiber be extended to the site? Will it be diversified or on the same route/path?

A2 Baseband is the requirement of Canada and fiber will be brought to the site. The contractor must simply connect.

Q3 What are the specs of the required road?

A3 The contractor will be required to construct roads to the spec necessary to support their construction.

Q4 Is the existing gravel road OK for heavy equipment?

A4 No

Q5 Can trees at the site but cut if necessary?

A5 Yes

Q6 Will the site require a full perimeter security fence, barbed wiring, cameras, intrusion alarms, keypad access, etc.?

A6 The contractor will be required to delivery a full perimeter security fence with barbed wire. See comments in the 'MGAS Responsibility Matrix'

Q7 Who is responsible for permits?

A7 Canada is responsible for RF and incoming power. The contractor will be responsible for all other required permits. See comments in the 'MGAS Responsibility Matrix'

Q8 Is heavy equipment available nearby?

A8 It is believed that heavy equipment is available nearby in Truro, NS.

Q9 Is natural gas or propane available.

A9 No. There is no nearby natural gas or propane.

Q10 Is the raw power supplied to be a redundant feed?

A10 No. The raw power will be a single feed. The contractor will be responsible for backup

Associated Documents:

1. 091017 - Masstown Validation Report.pdf

CFB Esquimalt Site Visit

General Info provided:

I1 The top of the site is zoned purely for signals

I2 The existing parking lot area is available for construction

-
- I3 The existing WW2 gun emplacements are possible areas for construction, however heritage approvals would be required.
- I4 Construction on base is not bound by local regulations, but will be respected. If tree removal is required, Canada will be responsible for replanting.
- I5 Canada will supply power
- I6 There is an existing generator building on the hill
- I7 Only one access road to the site

Questions and Answers:

- Q1 What areas are out of bounds?
A1 Out of bound areas are marked by the fence on the site. This includes the seismic sensor and the burial ground.
- Q2 Can the HF antennas be relocated?
A2 Yes
- Q3 Can the current antennas be moved?
A3 Yes

Associated Documents:

1. MARPAC- 312043-v1-Signal Hill Sensitive Areas Map August 2013.pdf
2. MARPAC - 264711-v2-SNC Lavalin - Dockyard, Signal_Hil, Yarrows, Naden and North Naden Phase I Environmental Site Assessment.pdf
3. Signal Hill Contours.png

MGAS Responsibility Matrix

The following table is meant to address questions, comments and/or responsibility boundary issues that arose during the MGAS site surveys at CRC Shirley's Bay, the Masstown Rx site, and CFB Esquimalt (Signal Hill).

Item	Esquimalt	Shirley's Bay	Masstown
Security	<ol style="list-style-type: none"> 1. Fencing – Contractor responsibility¹; 2. Security Clearances (Prime and Sub) – Contractor responsibility; 3. Visit Clearance Requests (Prime and Sub) – Contractor responsibility. 4. Alarms/Locks – Canada responsibility; 5. CCTV – Canada responsibility; and 6. Local Access Control – Canada responsibility. 		
Permits	Identifying and obtaining any/all required permits and site construction permissions is the sole responsibility of the Contractor. Canada will provide assistance/support where applicable (when requested).		
Surveys/Assessments	Identifying, obtaining and/or performing any/all required survey(s), assessment(s) ² is the sole responsibility of the Contractor. Canada will provide assistance/support where applicable (when requested).		
RF Clearance	Canada is responsible for obtaining RF clearance for the Anchor Stations.		
Infrastructure	<ol style="list-style-type: none"> 1 Communications Cabling – Canada responsibility; 2 Raw Commercial Power – Canada responsibility (based on requirement identified by the Contractor); 3 Power During Construction – Contractor responsibility; 4 Conduit for Communications and Power – Contractor Responsibility; and 5 Roads (new/upgrade if required) – Contractor responsibility. 		
Utilities	Canada will assume financial responsibility for Anchor Site utilities (e.g. electricity, fuel, etc.) after site acceptance.		
Natural Gas Infrastructure	Requires further investigation ³ Requires further investigation No		

¹ See Annex A - Fencing

² See Annex B – Surveys and Assessments

³ See Annex C – Natural Gas Infrastructure

Annex A – Fencing

The 'TYPE B' Anchor Station Site fence must be constructed in accordance with local building codes and as specified in the National Defence Security Policy (NDSP), Chapter 27, Annex D – Fencing and Perimeter Signing as follows:

- 1 Type B is a chain-link fence consisting of 3.0 m (10 feet) of chain-link fabric with a 30 cm overhang. When installed in accordance with paragraph 2 of this Annex, Type B fence will have an overall height of 2.7 m;
- 2 Where a chain-link fence is required for a security purpose, it must be constructed of a minimum of 9 gauge wire mesh, having openings not larger than 5 cm, and must be supported by metal posts and braces on the interior. The chain-link fabric must be taut and securely anchored to the underlying concrete, pavement or other hard surface. When the fence passes over soil surfaces, it must be anchored by burying the lower 30 cm. of fabric in the soil;
- 3 The overhang or outrigger must be constructed of metal and angled outward at 45 degrees. It must contain three strands of 12 gauge barbed wire, spaced 15 cm apart, and must be securely fixed to the overhang supports;
- 4 Posts must be firmly anchored in concrete bases to a sufficient depth to counteract frost heaving;
- 5 The interior side of fences should be painted with a dark, non-glare paint to eliminate reflection that may impair the outward vision of security forces during the hours of darkness;
- 6 Where ditches, ravines, ridges, etc., cannot be avoided, the ground must be leveled to remove all contours that would obstruct vision or afford concealment;
- 7 Openings such as culverts, ditches, sewers, etc., that pass through or beneath the fence and have a dimension greater than 15 cm or an overall area of 225 square cm must be secured by steel grating, grills or equivalent barriers;
- 8 Vegetation within the interior and exterior clear zones must be cut to a maximum height of 20 cm;
- 9 Trees and shrubs provide concealment, obstruct vision, and limit the effect of security lighting. Therefore trees and shrubs are not to be cultivated within the exterior clear zone nor between security lighting fixtures and the fence;
- 10 Large vehicle and single person entry gates must be added at a convenient traffic access point; and
- 11 In the case of Shirley's Bay, where butting up against a pre-existing fence is a possibility, a single-person entry gate between the segregated compounds must be added (if applicable).

Annex B – Surveys and Assessments

The following documents are being provided as reference material only. They have been prepared on behalf of Canada for purposes other than Mercury Global and, in most cases, only reflect areas similar to the potential antenna locations. The Contractor remains solely responsible for all surveys, assessments (e.g. environmental, geotechnical, etc.), required prior to construction:

- 1 CFB Esquimalt
 - 1.1 Signal Hill Contours.png;
 - 1.2 MARPAC - 264711-v2-SNC Lavalin - Dockyard, Signal_Hil, Yarrows, Naden and North Naden Phase I Environmental Site Assessment (December 2011).pdf; and
 - 1.3 MARPAC- 312043-v1-Signal Hill Sensitive Areas Map August 2013.pdf.

- 2 CRC Shirley's Bay
 - 2.1 CRC Shirley's Bay Campus Map.pdf
 - 2.2 IMIATG Facilities - Final EA Report.doc; and
 - 2.3 REPORT 07-1122-0143-Phase I & II Shirley Bay ESA.pdf.

- 3 Masstown Rx Site
 - 3.1 091017 - Masstown Validation Report.pdf.

Annex C – Natural Gas Infrastructure

1 CFB Esquimalt

- 1.1 Base Construction Engineering has no records with respect to Natural Gas (NG) infrastructure at the dockyard;
- 1.2 NG is available in the Esquimalt area;
- 1.3 The Wardroom (Officer's Accomodations at 1586 Esquimalt Road), located close to the dockyard entrance and Signal Hill, has gas service; and
- 1.4 The Contractor can contact BC One Call (<http://www.bconecall.bc.ca/ContactUs.php>) for "planning purposes" (NOT a "dig permit") to be put in touch with Fortis Gas, who will supply the applicable information and/or drawings.

2 CRC Shirley's Bay

- 2.1 Natural Gas infrastructure is currently being installed on the campus;
- 2.2 The Project Manager has indicated that the closest high pressure NG line to the area of interest (close to building 106 – PMSC) will be at building 14;
- 2.3 Timelines are being investigated.