



Request for Proposals No. W6369-200196 – AMDT 001
DG Space Engineering concept studies

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

MAT.DESProc2-DOSE2@forces.gc.ca

**SOLICITATION AMENDMENT
MODIFICATION DE
L'INVITATION**

The referenced document is hereby revised;
unless otherwise indicated, all 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
Department of National Defence
DES Proc 2-5-3
Woodline Building
2 Constellation Drive
Ottawa ON



Title - Sujet Space System Engineering and Cost Analysis	
Solicitation No. - N° de l'invitation W6369-200196	Amendment No – No modif. 001
Client Reference No. - N° de référence du client W6369-200196	Date 2019-12-02
GETS Reference No. - N° de référence de SEAG	
File No. - N° de dossier W6369-200196	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin January 13, 2020	Time Zone Fuseau horaire 2pm Eastern Standard Time EST
F.O.B. - F.A.B.	
Plant-Usine: Destination: <input checked="" type="checkbox"/> Other-Autre:	
Address Enquiries to: - Adresser toutes questions à: Cherie Murray	Buyer Id - Id de l'acheteur DES Proc 2-5-3
Telephone No. - N° de téléphone 613-901-8477	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: To be inserted upon award	

Delivery Required - Livraison exigée See Herein	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 has been raised to make the following changes:

Delete: Attachment 4.1 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 1 – Constellation Design Concept**

Insert: Attachment 4.1 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 1 – Constellation Design Concept – AMDT 001**



Attachment 4.1: Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 1 – Constellation Design Concept – AMDT 001**

Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
M1	<p>The Bidder must have demonstrated experience performing a Synthetic Aperture Radar (SAR) remote sensing satellite system design concept study within the last five (5) years, from the date of RFP closing. The concept study must have assessed all of the following areas:</p> <ul style="list-style-type: none"> 1- Tasking, Telemetry, and Communications requirements; 2- Communications links (frequency, bandwidth); 3- Constellation composition, size and orbit(s); 4- Recommended sensors/sensor types, secondary payload, duty cycle, bus, frequency bands(s); 5- Detailed analysis of the sensor parameters (swath, resolution, Noise Equivalent Sigma Zero (NESZ), ambiguity, bandwidth, scene size); and 6- Detailed cost estimates. <p>To demonstrate compliance, the Bidder must provide details of the concept study using the Project Reference Response Template provided in Attachment 4.7.</p>			
M2	<p>The Bidder must demonstrate that the proposed resource(s) has/have a minimum of twenty (20) years'</p>			



Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
	<p>experience, from the date of RFP closing, working with Synthetic Aperture Radars (SAR).</p> <p>To demonstrate compliance, the Bidder must provide a resume of each team member and provide details of the project(s), their role(s), dates and duration(s).</p>			

Technical Point Rated Evaluation – Stream 1 – Constellation Design Concept

Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
R1	<p>The Bidder should demonstrate that the proposed resource(s) in M2 has/have experience within the last ten (10) years, from the date of RFP closing, designing SAR payloads.</p> <p>The Bidder should provide a detailed description of the project(s) and the resource(s)' role in the design of SAR payload(s).</p>	<p>15 points = Demonstrated experience designing 3 or more SAR payloads</p> <p>10 points = Demonstrated experience designing 2 SAR payloads</p> <p>5 points = Demonstrated experience designing 1 SAR payload.</p> <p>0 points = No experience</p> <p>MAX Points = 15</p>		



Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
R2	<p>The Bidder should demonstrate that the proposed resource(s) in M2 has/have experience within the last ten (10) years, from the date of RFP closing, designing satellite systems (including both payload and space vehicle) using SAR as the main payload.</p> <p>The Bidder should provide a detailed description of the project(s) and the team member's role in the design of the satellite system(s) using SAR as the main payload.</p>	<p>15 points = Demonstrated experience designing 3 or more satellite systems using SAR as the main payloads.</p> <p>10 points = Demonstrated experience designing 2 satellite systems using SAR as the main payloads.</p> <p>5 points = Demonstrated experience designing 1 satellite system using SAR as the main payload.</p> <p>0 points = No experience</p> <p>MAX Points = 15</p>		
R3	<p>The Bidder should demonstrate its experience within the last ten (10) years, from the date of RFP closing, in the completing the following stages for satellite systems which include SAR payloads:</p> <ul style="list-style-type: none"> 1- Design 2- Manufacture 3- Commission 4- Operation 	<p>8 points = Demonstrated experience in all 4 stages</p> <p>6 points = Demonstrated experience in 3 stages</p> <p>4 points = Demonstrated experience in 2 stages</p> <p>2 points = Demonstrated experience in 1 stage</p> <p>0 points = no experience</p> <p>MAX Points = 8</p>		



Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
	The Bidder should provide details of its experience by using the Project Reference Response Template provided in Attachment 4.7.			
		Total points (out of 38)		



Delete: Attachment 4.3 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 2 – Data Exploitation Concept**

Insert: Attachment 4.3 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 2 – Data Exploitation Concept – AMDT 001**



Attachment 4.3: Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 2 – Data Exploitation Concept – AMDT 001**

Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
M1	<p>The Bidder must have led development of at least one concept study for a Processing, Exploitation and Dissemination (PED) system which uses space-based remote sensing and intelligence data within the last five (5) years from the date of RFP closing. The concept study must have included the following:</p> <ul style="list-style-type: none"> a. Communications links (frequency, bandwidth if appropriate); b. Ground segment technology and configuration; c. Collection, data handling; d. Processing, Exploitation and Dissemination (PED); e. Data Archiving, retrieval and storage; and f. Cross domain connectivity. <p>To demonstrate compliance, the Bidder must provide details of the concept study using the Project Reference Response Template provided in Attachment 4.7.</p>			
M2	<p>The Bidder must demonstrate that the proposed resource(s) has/have a minimum of ten (10) years' experience from the date of RFP closing working with PED systems which use space-based remote sensing and intelligence data.</p> <p>To demonstrate compliance, the Bidder must provide a resume of each team</p>			



Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
	member and provide details of the project(s), their role(s), dates and duration(s).			

Technical Point Rated Requirements for Stream 2 – Data Exploitation Concept

Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
R1	<p>The Bidder should demonstrate that the proposed resource(s) in M2 has/have experience within the last five (5) years, from the date of RFP closing, designing PED systems which use space-based remote sensing and intelligence data.</p> <p>The Bidder should provide a detailed description of the project(s) and the resource(s)' role in the design of PED systems.</p>	<p>15 points = Demonstrated experience designing 3 or more PED systems</p> <p>10 points = Demonstrated experience designing 2 PED systems</p> <p>5 points = Demonstrated experience designing 1 PED system</p> <p>0 points = No experience</p> <p>MAX Points = 15</p>		
R2	<p>The Bidder should demonstrate its experience within the last ten (10) years, from the date of RFP closing, in the</p>	<p>8 points = Demonstrated experience in all 4 stages</p> <p>6 points = Demonstrated experience in 3 stages</p> <p>4 points = Demonstrated experience in 2 stages</p>		



Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
	<p>completing the following stages for PED systems which use space-based remote sensing and intelligence data</p> <ul style="list-style-type: none">1- Design2- Manufacture3- Commission4- Operation <p>The Bidder should provide details of its experience by using the Project Reference Response Template provided in Attachment 4.7.</p>	<p>2 points = Demonstrated experience in 1 stage 0 points = no experience</p> <p>MAX Points = 8</p>		
		Total points (out of 23 points)		



and

Delete: Attachment 4.5 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 3 – Alternate Mission Concept**

Insert: Attachment 4.5 Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 3 – Alternate Mission Concept – AMDT 001**



Attachment 4.5: Mandatory and Point-Rated Technical Evaluation Criteria
for **Stream 3– Alternate Mission Concept – AMDT 001**

Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
M1	<p>The Bidder must have demonstrated experience performing an electro-optical (EO) or infrared (IR) (which much include hyper and multi-spectral) design concept study within the last five (5) years, from date of RFP closing. The concept study must have assessed all of the following areas:</p> <ul style="list-style-type: none"> 1- Tasking, Telemetry, and Communications requirements; 2- Communications links (frequency, bandwidth); 3- Constellation composition, size and orbit(s); 4- Recommended sensors/sensor types, secondary payload, duty cycle, bus, frequency bands(s); 5- Detailed analysis of the sensor parameters (swath, resolution, Noise Equivalent Sigma Zero (NESZ), ambiguity, bandwidth, scene size); and 6- Detailed cost estimates. <p>To demonstrate compliance, the Bidder must provide details of the concept study using the Project Reference Response Template provided in Attachment 4.7.</p>			
M2	<p>The Bidder must demonstrate that the proposed resource(s) has/have a minimum of fifteen (15) years' experience, from date of RFP closing,</p>			



Criteria	Mandatory Criteria	Statement of Compliance and Cross Reference to Proposal	MET	NOT MET
	<p>working with EO or IR spacecraft payloads.</p> <p>To demonstrate compliance, the Bidder must provide a resume of each team member and provide details of the project(s), their role(s), dates and duration(s).</p>			

Technical Point Rated Requirements – Stream 3 – Alternate Mission Concept

Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
R1	<p>The Bidder should demonstrate that the proposed resource(s) in M2 has/have experience within the last ten (10) years, from date of RFP closing, designing EO or IR payloads.</p> <p>The Bidder should provide a detailed description of the project(s) and the resource(s)' role in the design of the EO or IR payload(s).</p>	<p>15 points = Demonstrated experience designing 3 or more EO or IR payloads</p> <p>10 points = Demonstrated experience designing 2 EO or IR payloads</p> <p>5 points = Demonstrated experience designing 1 EO or IR payload.</p> <p>0 points = No experience</p> <p>MAX Points = 15</p>		
R2	<p>The Bidder should demonstrate that the proposed resource(s) in M2 has/have experience within the</p>	<p>15 points = Demonstrated experience designing 3 or more satellite systems which included EO or IR as the main payloads.</p>		



Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
	<p>last ten (10) years, from date of RFP closing, designing satellite systems (including both payload and space vehicle) which included EO or IR as the main payload.</p> <p>The Bidder should provide a detailed description of the project(s) and the team member's role in the design of the satellite system(s) which included EO or IR as the main payload(s).</p>	<p>10 points = Demonstrated experience designing 2 satellite systems which included EO or IR as the main payloads.</p> <p>5 points = Demonstrated experience designing 1 satellite system which included EO or IR as the main payload.</p> <p>0 points = No experience</p> <p>MAX Points = 15</p>		
R3	<p>The Bidder should demonstrate its experience within the last ten (10) years, from date of RFP closing, in the completing the following stages for satellite systems which included EO or IR payloads:</p> <ul style="list-style-type: none"> 1- Design 2- Manufacture 3- Commission 4- Operation 	<p>8 points = Demonstrated experience in all 4 stages</p> <p>6 points = Demonstrated experience in 3 stages</p> <p>4 points = Demonstrated experience in 2 stages</p> <p>2 points = Demonstrated experience in 1 stage</p> <p>0 points = no experience</p> <p>MAX Points = 8</p>		



Criteria	Point-Rated Criteria	Evaluation Factors	Bidder Self-Score	Justification (Cross-reference to resource resume as applicable)
	The Bidder should provide details of its experience by using the Project Reference Response Template provided in Attachment 4.7.			
		Total score (out of 38 points)		

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME AND IN FULL EFFECT.