



January 26, 2023

**Amendment no.1**

Request for Proposal # **9F045-22-0235**

The purpose of this amendment is:

- a. Bid Submission Deadline
- b. Amend SOW, page 35, section 4.4.1, Table 4-5- Deliverables, CDRL # MM-12
- c. Attendees during the Bidder's conference held on January 17, 2023.
- d. Publish Canada's responses to questions asked during the Bidder's conference

**a. Bid Submission Deadline**

**DELETE :**

Closing Time: February 16, 2023 at 2:00 PM (EST)

**INSERT :**

Closing Time: March 24, 2022 at 2:00 PM (EDT)

**b. Amend SOW, page 35, section 4.4.1 Table 4-5- Deliverables, CDRL # 12**

**DELETE**

MM-12	Life Cycle Cost Analysis	4.2.5 4.2.5.2 4.2.5.3 4.2.5.4	MRR	IR	R	009
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**INSERT**

MM-12	Life Cycle Cost Analysis	4.2.5 4.2.5.2 4.2.5.3 4.2.5.4	Costing TIM MRR	IR Final	A	009
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**c. Attendees during the Bidder's conference held on January 17, 2023.**

- ABB
- Airbus
- L3Harris
- Lockheed Martin Canada
- MDA Space
- Raytheon Canada



**d. Publish Canada's responses to questions asked during the Bidder's conference**

Question Number	Question	Answer
1	Will the list of attendees and the companies that they represent be available?	The list to the companies who have been participated to the conference will be part of the amendment # 1
2	Will the presentation be available in the amendment?	No, the presentation will not be distributed. All the information in the presentation is taken from the Statement of Work (SOW) which is available in the Request for Proposal (RFP).
3	Question on what is the approach for the concept for the ground system & data downlink. Is it within the scope of this or separate studies?	Please refer to SOW - section 4.2.3.8 Ground Segment Conceptual Design. Part of the mission concept. SOW requires the contractor informing Government of Canada on what would be the need for ground segment.
4	Could you restate deadline for proposals?	February 16, 2023 at 2p.m. EST
5	Is there any Canadian content requirement?	No
6	When do you plan the kickoff meeting?	Government of Canada is aiming to start the contract by Q2 of 2023(calendar year). Timing the kickoff is expected to depend on the time required to complete the evaluation of the Bids (number of bids, etc.)  <b>Important note: During the meeting answer was given as Q2 of this fiscal year, which was not correct. The target for Kick off meeting is Q2 of 2023 (calendar year).</b>
7	A bit of a history of context and into the future. So, you mentioned some of those cost inputs and supporting your business case for a future phase A. Did I understand that correctly?	With this study, Government of Canada aims to have a full life-cycle costing and the main intention is to go to full budget ask but phase A is still an option.
8	How many contracts are going to work for this phase? Is one or more than one?	Government of Canada will award one single contract but it is possible for industry to organize multiple companies into a team.
9	Are we supposed to figure out the teaming arrangement before we propose or afterwards?	Before. Bidders will be evaluated with their heritage on specific payloads, mission design herniate, etc. Please refer to Mandatory criteria, MT1, RFP - page 12.
10	-	Government of Canada emphasizes that winning contractor will need to sign certain agreements for information exchange for the MET payload (ABI), specifically on EAR and maybe on ITAR.



11	Is it understood on the US side that the company providing the ABI will devote the effort to react and respond to questions from the contractor for this project?	Through the course of Mission Design Contract (MDC), the contractor will receive the information directly from the ABI provider. Government of Canada will take part to coordinate the efforts. The ABI provider is informed about the MDC.
12	On the point of potentially forming a large team, it can take some time to form and agree who does what within the team. Are you contemplating adding some extra time to the proposal response in case that turns out to be needed?	Government of Canada is open to consider the extension request. Please kindly make your request for a specific amount of additional time by email to contracting authority. If an extension is accepted, Government of Canada will announce the extension via an amendment on CanadaBuys.
13	I'm asking a question about the ABI sensor, whether because it originates from US, whether there's going to be any ITAR control information associated with it.	There is a significant amount of information that will be provided without any EAR restriction. However, there will be some information which is EAR controlled. The contractors will need to sign necessary agreements for the information exchange but Government of Canada will take role on coordination.
14	On the space weather instruments, is it the same thing or information needed will be obtained through the Canadian Space Agency (CSA)?	Information will come through Government of Canada. SOW Section 5 includes the details on when and how the information will be provided to the contractor.
15	Elaborate on the task authorization part – budget allocation 2.5M\$ baseline, 0.5M\$ task authorization budget. That will be contracted on an as and when requested basis?	<p>Over the course of the contract, Government of Canada might need to change scope or need to some additional work. This is the reason for additional task authorization (SOW, section 4.2.7, page 29).</p> <p>The 0.5MCAD allocated to task authorizations is not a guaranteed amount. Government of Canada will use milestone payment plan (RFP - annex B) for the current scope of work describe in the SOW and this is limited to \$2.5 MCAD.</p>
16	Detector selection task associated with GHG. Are we expected several detector suppliers to be considered?	Yes. Assessment of commercially available detectors worldwide is expected to find what is appropriate, compare performance, cost and logistical issues related to them such as ITAR. During the course of the contract, Government of Canada and the contractor will make a choice weighing all these factors. A complete assessment looking at all the options available are necessary.
17	Will government want a say in the selection process of such detector?	<p>Please refer to the section 4.2.1.4 of Statement of work:</p> <p><i>The contractor must prepare a Technical Note with a recommendation for selected technology and supplier and submit it to CSA for approval (CDRL ENG-95b) at the ROR.</i></p>



18	Can we assume detector selection task will replace detector Space Technology Development Program (STDP) initially planned for which there was a Request of Information (RFI) issue a few months ago.	Government of Canada is working on a parallel STDP contract on the detector and planning to communicate the outcome of both contracts with each other. STDP contract differs in that it has an additional step of acquiring and testing, MDC is more of a design exercise.
19	Task authorization. When awarded, is it possible that the milestones could move?	The milestones can shift due to various reasons such as a task authorization specifically defined for additional scope or a scope change from the current SOW.
19a	A half million dollars is a substantial amount and it could well create extra work and delay milestone.	If additional work requires milestone shift, Government of Canada will consider it on a case-by-case basis.
20	Life cycle costing. You mentioned that the ABI could be provided by a partner or could be an international contribution, but in the cost and exercise, how do we have to consider it?	It will just be a partner contribution. We will exclude the ABI cost.
21	Just for completeness, same approach for space weather	Yes (please refer to question 20)
22	Task authorization. Are they going to be eventually requested during the execution before the final milestone or after the final milestone, as it happened in PCW (Polar Communications and Weather).	Technically, both are possible, as long as they are issued before the contract closure. If additional tasks require more time, Government of Canada will have to extend the contract, but Task Authorization cannot be done after all the milestones approved and the contract is closed.
23	There's one flight model ABI that NOAA has left that they are considering contributing. You are looking at a 2-satellite constellation. What is the plan for the second imager?	This is under discussion. There is an existing ABI for the first satellite. For the second satellite, there are some extra parts that may be available for timely and cost-effective manufacturing of a second ABI. Another possibility is the next generation imager (GEO-XO). The decision has not been finalized yet. One reason MDC has a reduced option for 1-satellite is specifically for this reason.
24	In the SOW with respect to GHG instrument development, some discussion around intelligent pointing and use of context imager. Could you describe - is the CONOPS such that information from context camera would be used as part of the pointing strategy in real time with the GHG instrument on the same satellite, or processed and inform the second satellite?	The context camera is not actually for the intelligent pointing, the context camera is more for the post calibration of image navigation and registration. The idea of intelligent pointing is to use cloud masks from the ABI itself to enable the pointing of the greenhouse gas instrument. The way that will be done exactly in terms of CONOPS is not totally established. One possibility would be having the capability of processing an ABI cloud mask on board and then feeding that information to the greenhouse gas instrument for a cloud mask, although that might not be feasible. Therefore, the more realistic way could involve downlinking the ABI data to the ground, then some sort of limited processing, and then the decision about where to point being



		uplinked. However, that could also have its own challenges or drawbacks, so those questions will be part of the study.
25	Do you expect us to kind of have a scientist in our team and kind of using OSSE (Observing System Simulation Experiment) as a way of guiding the study?	Government of Canada has a science team that does this in parallel. The contactor does not have to be running OSSEs in this contract. Key expertise required for bidding is summarized in Mandatory criteria, MT1, RFP - page 12.
26	I wonder if there is any chance for an extension	An e-mail should be sent to contracting authority with the question and the amount of extension needed. Government of Canada will make the decision and post the details. Current posting was planned as 8 weeks, excluding Holidays period, instead of a typical 4-5 weeks period. However, Government of Canada will consider if there is a request, please provide your feedback.
27	There is a socio-economic benefits study (SEBS) at the same time. Is there an exchange of information planned at any point? Maybe a change of direction due to the outputs of that study?	No. SEBS is one aspect Government of Canada needs to consider for budget ask along with the mission design contract (MDC) but MDC will not be affected by SEBS.
28		If you have any other question after this conference, please send an e-mail to contracting authority and she will forward it to the project team. The answers will be provided as soon as possible.

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED**