

SOLICITATION F1782-17C814/A – STATEMENT OF WORK SUPPLEMENT – REVISION 00

This Supplement is raised to:

- 1) Address questions raised by industry.
- 2) Present comments made by Canada; and
- 3) Revise the Statement of Work document.

This version of the Solicitation F1782-17C814/A – Statement of Work Supplement supersedes all previous versions of the Solicitation F1782-17C814/A – Statement of Work Supplement. If previously raised questions remain unanswered, please resubmit them by e-mail to the Contracting Authority.

Updates to this Supplement since the last version are in green text.

This Supplement affects the content of the Solicitation and its associated documents.

The bid must take into account:

- 1) The Solicitation documents available from the Government Electronic Tendering System at <https://BuyandSell.gc.ca/procurement-data/tenders>;
- 2) This Statement of Work Supplement; and
- 3) The documentation referenced within the Solicitation documents including this Statement of Work Supplement.

A. Questions and Answers

Item	Specification Reference	Question	Answer	Date
1	N/A	Can the bidding period be extended?	The bidding period will be extended until Aug 29 th 2017.	July 30 2017
2	11.11	Are the tanks to be prepared and painted?	No the tanks do not need to be painted. They thoroughly must be washed and inspected.	July 30 2017
3	11.11 D.2.1	What are the water sampling requirements for the potable water tank?	The water samples are to follow the FSM 7.A.12 section 3.6. These are a full sample testing for 28 different contaminants.	July 30 2017
4	S.1.9	Does the fixed fire system need to be deactivated during the work period. Will this be thru 1379?	Yes. See S.1.9.3. The Contractor must ensure that the engine room, paint locker and galley fixed fire systems have been reactivated by a qualified marine fire protection company. This must be priced in the PDS.	July 30 2017
5	11.12	Are there two sounding pipes in the flume tank?	Yes.	July 30 2017
6	11.13	Can you confirm the number of fuel vents on tank #8 and tank #7?	There are 3 fuel vents on tank #8 and 2 fuel vents on tank #7.	July 30 2017
7	11.14	Was a hatch drawing provided?	Yes, a copy of the hatch drawing was included in the technical package available on BuyandSell.gc.ca	July 30 2017

8	11.14	What is the material of the new hatch?	The new hatch is an aluminium hatch.	July 30 2017
9	12.2	Will the bow thruster motors require servicing?	Any servicing of the motors will be addressed via the 1379 process.	July 30 2017
10	13.2	Why is it mandatory to subcontract to Britmar Marine Ltd. For this work?	Britmar has extensive knowledge of the installation of Lithium Ion Batteries. As the 24 volt system is crucial for the safe operation of the vessel. Britmar is to be subcontracted as an advisor and for testing.	July 30 2017
11	13.2	Can Canada provide a parts list for this specification item?	Yes by Friday Aug 4 th .	July 30 2017
12	15.1	Is there a manual available for this pump?	No information can be found on these components.	July 30 2017
13	15.1	Will the pump motor require servicing?	Any motor repairs required will be addressed via the 1379 process.	July 30 2017
14	15.1	Does the disassembled pump need to be inspected by TCMS?	No that was included in error.	July 30 2017
15	15.2	Do the disassembled pumps need to be inspected by TCMS?	No that was included in error.	July 30 2017
16	15,3	Do the disassembled pumps need to be inspected by TCMS?	No that was included in error.	July 30 2017
17	15.4	Does Canada have a drawing of the capstan that can be provided?	No information can be found on these components.	July 30 2017
18	15.4	Does the disassembled capstan need to be inspected by Natural Resources Canada?	No that was included in error.	July 30 2017
19	15.5	Does the HPU motor need to be rewound?	Yes, the bidder must include the cost of rewinding the HPU motor with their price for this specification item.	July 30 2017
20	15.6	Can Canada please confirm the type and size of valve that requires replacement?	Canada requires a 3" stainless ball valve as shown during the viewing.	July 30 2017
21	15.8	Does all the piping to be used need to be stainless steel?	Yes all piping must be stainless steel.	July 30 2017
22	19.2 Appendix A	Is the contractor providing the lab door?	Yes.	July 31 2017
23	19.2 Appendix A	Does the lab door need to be a class B rated fire door with a window?	The lab door is required to be a weather door with a window.	July 31 2017
24	19.2 Appendix A	Does the lab door need to be weather tight?	Yes	July 31 2017
25	19.2 Appendix A	Do the lab windows need to be completely replaced or are we just to bid on replacing glass?	No, the entire windows must be replaced.	July 31 2017
26	19.2 Appendix A	Does Canada require the entire deck in the lab removed to bare steel and UTS inspected?	Yes the entire deck is to be removed and UTS inspected prior to the installation of new deck coatings.	July 31 2017
27	19.2 Appendix A	Can Canada provide more information on the required air handling units?	Canada will provide update drawing by Friday Aug 4 th showing make / model and location of the air handling units	July 31 2017
28	19.2, Appendix A	Can Canada provide more information on the lab extraction fan requirements?	Canada will provide the make and model number of the fans by Friday Aug 4 th .	July 31 2017

29	19.2 E.3.1 Appendix A	Can Canada confirm what-built drawings must be produced by the successful bidder?	Canada requires all system and arrangement drawings sent in the Appendix A drawing package to be updated. Canada also requires the Fire and Safety Plan updated.	July 31 2017
30	19.2 D.5.1, D.5.2, Appendix A	Can Canada confirm the painting requirements of the house structure, bulkheads and deckhead between frames 14 and 34?	Canada removes the requirement to paint the bulkheads and frame within the lab space as the insulation is to be retained.	July 31 2017
31	11.16, Appendix C	Will CCG provide all the required cabling?	Yes, CCG will provide all the required cabling.	July 31 2017
32	11.16, Appendix C	Does CCG want to keep the old transducer housings?	No, the bidder should include the cost to dispose of the housings.	July 31 2017
33	11.19, Appendix B	Can Canada confirm the insulation requirements for renewal?	Canada requires the insulation removed and replaced as per current spec item. In addition additional 15 square meters of insulation was noted to be in bad shape and or missing. The Contractor must bid on the replacement or installation of an additional 15m2 of insulation.	July 31 2017
34	N/A	Will the vessel be down on the south coast once in contract for confirmation of measurements? If so what dates?	Yes, the vessel will be available for limited viewings Aug. 15/16 th in Port Hardy, Aug 23 rd Nanaimo, Sept 12/3 th Nanaimo and Sept 27 th at Pat Bay. Note all dates subject to change due to operational requirements contact CA prior to arrange.	Aug 1 st 2017
35	Appendix C	How much gear will Canada remove in the Foc'sle?	Canada will remove all loose gear. Freezer to remain in place but will be emptied of contents.	Aug 1 st 2017
36	Appendix C / 11.9	Does Canada require the deck head painted in the bow thruster space if the insulation is not being replaced?	Canada does not require the deck head painted other than areas affected by the steel work outlined in Appendix C.	Aug 1 st 2017
37	11.8	When viewing the vessel, we inspected the sonar space. Leading from the sonar space was a pipe tunnel, from frame 34-41, a pipe tunnel from frame 52-56, and two cofferdams outboard, frame 51-52. Are these areas to be painted two? What areas in these spaces are to be painted? (Bilges, bulkheads and deck head?)	The areas of the pipe tunnel, 2 cofferdams are to be painted as per Interspec and are to include bilge, bulk heads and deck heads. The square meter of areas to coat in the SOW had included these areas.	Aug 1 st 2017
38	11.12	Who supplies the two 8" ball check vents for the flume tank. If the shipyard is to supply the vent heads, please provide a size, make and model of the 8" ball check vent on the top of the vent pipe.	The Contractor is to supply the two Wager's 8" ABS Approved Vents stainless steel vents or equivalent.	Aug 1 st 2017
39	11.14	Is drawing no. 214-MS of the new hatch or the existing hatch? If it is of the new hatch, may we suggest you purchase a single lever configuration hatch for ease of operation, especially off the ladder from below.	The drawing is of the new hatch. The hatch has been purchased.	Aug 1 st 2017

40	13.2	Please clarify the scope of work. Does the battery system exist per the 5 drawings provided, or are we to install components indicated on the drawings?	The battery system has been reconfigured and is shown on the new drawings. Canada has included a GSM material list. The Contractor is to install the components as per the supplied drawings.	Aug 1 st 2017
41	13.2	Who supplies the battery monitor, battery monitor computer, fuses, etc. shown on the five drawings? Can we get a list of GSM components for the battery system, and a list of components already fitted at the ship, which we are to re-use.	Canada will supply all materials except for cable, transits and a new aluminum shelf. List of GSM components has been included in the SOW update.	Aug 1 st 2017
42	15.1	Please provide the manual and parts list for the two grey water pumps.	No information can be found on these pumps	
43	15.4	Can we have a manual, parts list and assembly drawing(s) for the capstan and Swann motor.	No information can be found on these components.	
44	15.8	Please clarify the scope of work for the installation of the water maker. Specifically, where is the water maker to be located in the bow thruster space, and what interference items must be addressed.	The water maker is to be located port forward in the location of the 2 refrigeration cooling pumps. These pumps will have to be relocated aft on the port side attached to new brackets and located into a save all. The refrigeration pumps will be required to be re-plumbed and electrical modified.	Aug 1 st 2017
45	15.8	C.4 What is the material for the sea water suction for the water-maker?	The material is to be priced as schedule 40 stainless steel.	Aug 1 st 2017
46	Appendix A	Are there more drawing being made available for all the individual cabinet units to be renewed throughout the lab?	As per Finishing schedule - The cabinets other than ones contained on the individual drawings are of a specialty size and are to be purchased or built by the contractor following the supplied drawings. Canada advises that Pro Nautic of Victoria (contact Buck at 250-655-6388) is one supplier capable of this work. The cabinets shown on the Lower cabinet Arrangement are all standard size and are to be purchased from a supplier that sells medical or science grade cabinets. One supplier is Mott industries who specialize in medical / science grade cabinets contact Darcy Selinger darcy@selmar.ca for information.	Aug 1 st 2017
47	Appendix A	Who supplies the ultra- low temperature laboratory freezer?	CFM make / model in finishing schedule	Aug 1 st 2017
48	Appendix A	Who supplies the chest freezer?	CFM as per finishing schedule	Aug 1 st 2017

49	Appendix A	Drawing 1 146-03-02 Wet Lab Elevations: The lower elevation shows a hazardous goods storage cupboard. Is this cupboard made of plywood also, like the other cabinets?	This cabinet is to be purchased thru a laboratory cabinet supplier. CG recommends the contractor contact Darcy Selinger darcy@selmar.ca at Mott for information.	
50	Appendix A	Please clarify the scope of work for the HVAC system. Drawing 1 146-508-00 Proposed HVAC Arrangement Sheet 1 of 2 denote Air Handling Unit 1. Drawing 1 146-508-00 Proposed HVAC Arrangement Sheet 2 of 2 denote Air Handling Unit 2. There is no description of the air handling units. (see question 25 also) The specification mentions air conditioned air for the lab.	Canada will issue new drawing showing more detail and a different arrangement by August 10 th 2017	Aug 1 st 2017
51	Appendix A	Drawing 1 1463-508-01 sheet 1 of 2 shows two exhaust air systems in the lab which are not defined, other than duct sizes. The specification is silent on them. Are these systems already existing? If not, please provide more information on the scope of work.	Canada will issue new drawing showing more detail and a different arrangement by August 10 th 2017.	Aug 1 st 2017
52	Appendix A	Drawing 1 1463-508-01 sheet 2 of 2 shows an air handling unit. There are descriptions of A3 Air handling unit -shown, A4-Condensor Unit – not shown, with notation of cooling arrangement of air handler to be determined. (Direct expansion, air or water cooled) Contractor to provide piping and plumbing connection as will be determined. Please clarify the requirement.	Canada will issue new drawing showing more detail and a different arrangement by August 10 th 2017.	Aug 1 st 2017
53	11.1	We have recently been in contact with Canada Hydrographic Services and Natural Resources Canada to request their services for inspection. They were unclear as to what is required from them in regards to inspecting the Gondola.	This statement allows for the Canadian Hydrographic Service Or National Resources Canada to attend the Contractors work facility for an inspection. CHS or NRCan will conduct an in house inspection with their agencies technicians for a period of not more than 2 days. The TA will inform the Contractor when agencies will attend, one or both agencies may choose to waive the inspection requirement, and if this is the case the TA will inform the contractor. The TA will organize any inspections by CHS or NRCan at a convenient time with the contractor if required.	Aug 16 th 2017
54	Appendix A	Canada Question = Has Canada modified the drawings and expanded the scope of work regarding the HVAC system into the lab	Canada has modified the drawings to the HVAC and expanded the scope of work. The new scope of work as seen in the drawings has a new HVAC system handling air for the entire vessel save the	Aug 16 th 2017

			bridge deck. 4 new drawings have been provided to the bidders containing the requirements for the new condenser and air handling systems. Note Appendix A section D.8 has been amended to reflect these changes.	

B. Comments

Item	Reference	Comment	Date
1	10.8	Note the colour palette to be used has changed from previous paintwork on this space.	July 30 2017

C. Revisions to the Statement of Work document

Item	Reference	Remove	Insert	Date
1	S.1.10.2	If there is more than one CG project ongoing during the work period of this project the work space cannot be combined and must have separate work stations. They me be contained in the small building but must be separated by a 5' foot high wall at minimum.	N/A	July 30 2017
2	10.1	Section removed.	N/A	July 30 2017
3	10.2	Section removed.	N/A	July 30 2017
4	10.3	Does Canada require the Galley Shutdown to be tied into the shut down outside the 1 st mates cabin	Yes Canada requires the galley shut down to be tripped at the bridge and outside of the 1 st mates cabin	July 30 2017
5	11.11.C.1	All	N/A	July 30 2017
6	15.1 D.1.1	Inspection of disassembled pumps by TI/TA and TCM.	Inspection of disassembled pumps by TI/TA.	July 30 2017
7	15.2 D.1.1	Inspection of disassembled pumps by TI/TA and TCM.	Inspection of disassembled pumps by TI/TA.	July 30 2017
8	15.2	Replace cooling pump	Canada requires the pump and motor to be replaced with a Goulds Water Technology LB1035 pump or similar. Contractor to note it is a 1 hp 230/460 3 ph motor.	Aug 1 st 2017
9	15.3 D.1.1	Inspection of disassembled pumps by TI/TA and TCM.	Inspection of disassembled pumps by TI/TA.	July 30 2017
10	15.4 D.1.1	Inspection will be done by TI/TA, and members of Natural Resource Canada.	Inspection will be done by TI/TA only.	July 30 2017
11	19.2 D.5.1, Appendix A	Remove All	N/A	July 30 2017
12	19.2 D.5.2, Appendix A	Remove All	N/A	July 30 2017
13	11.16,	Additional information	Canada has no requirement to keep removed transducer	July 31 2017

	Appendix C		housing. The Contractor must dispose of them.	
14	New Item	N/A	Deck repair main deck alley	Aug 1st 2017
15	New Item	N/A	New Moyno Sea Water Pump	Aug 1st 2017
16	New Item	N/A	Engine Room Door	Aug 1st 2017
17	Appendix A	D.8	Amended to reflect new drawings and increased scope of work	Aug 16 th 2017

ALL OTHER INSTRUCTIONS, TERMS AND CONDITIONS REMAIN UNCHANGED.