



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving - PWGSC / Réception des soumissions
- TPSGC**

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Quebec

K1A0S5

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

Marine Emergency Response Division/Division des

Interventions en cas d'urgence maritime

Centennial Towers 7th Floor - 7W11

200 Kent Street

Ottawa

Ontario

K1A0S5

Title - Sujet EREP: Curtain Boom	
Solicitation No. - N° de l'invitation F7047-160033/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F7047-160033	Date 2018-01-08
GETS Reference No. - N° de référence de SEAG PW-\$ERD-002-26562	
File No. - N° de dossier 002erd.F7047-160033	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-25	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Szczesniak, Michal	Buyer Id - Id de l'acheteur 002erd
Telephone No. - N° de téléphone (250) 507-0647 ()	FAX No. - N° de FAX () -
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

SOLICITATION AMENDMENT 004

This Amendment is raised to:

- (a) Address questions; and
- (b) Revise the Solicitation.

The bid must take into account the following information:

Question 13

Within Annex B (Technical Statement of Requirements) - Section 3.2.2 (Aluminum Welding), conformance to standards CSA W47.2-11 (R2015) and CT-043EQ-EG-001-E are required with the option to propose alternatives. Will American Welding Society (AWS) qualify as an equivalent?

Response to Question 13

American Welding Society (AWS) Standard could qualify as an equivalent provided that the Contractor demonstrates, in accordance with the compliance audit outlined in Annex B (Technical Statement of Requirements) - Section 3.2.2 (Aluminum Welding), that the technical intent of CSA W47.2-11 (2015), Certification of Companies for Fusion Welding of Aluminum, and the standards referenced in CT-043-EQ-EG-001-E, CCG Welding Specification, August 2017 are met.

The compliance audit helps ensure the quality of the end product is the same as that produced as per CSA W47.2 and CT-043-EQ-EG-001-E.

Question 14

Regarding Annex B (Technical Statement of Requirements) - Section 3.4.3.2, would 5052-H321 qualify as a suitable alternative?

Response to Question 14

5052-H321, as per ASTM B209-14, Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate, qualifies as a suitable alternative for the requirement outlined in Annex B (Technical Statement of Requirements) - Section 3.4.3.2.

Refer to Revision 20.

Question 15

Will a Danforth style anchor meet the requirement outlined in Annex B (Technical Statement of Requirements), Section 3.4.5.2?

Response to Question 15

A Danforth anchor will satisfy the requirement outlined in in Annex B (Technical Statement of Requirements), Section 3.4.5.2.

Question 16

Regarding Annex B (Technical Statement of Requirements), Section 3.3.7.4, is it acceptable to use chain manufactured in accordance with NACM (National Association of Chain Manufacturers) Welded Steel Chain Specifications in lieu of ASTM?

Response to Question 16

Yes, National Association of Chain Manufacturers (NACM) Standard is acceptable in lieu of ASTM Standard for Section 3.3.7.4. The physical and mechanical properties for Grade 30 chain are identical between the referenced ASTM Standard and the NACM Standard.

Question 17

Regarding Annex B (Technical Statement of Requirements), Section 3.3.8.8, is it acceptable to use chain manufactured in accordance with NACM (National Association of Chain Manufacturers) Welded Steel Chain Specifications in lieu of ASTM?

Response to Question 17

Yes, National Association of Chain Manufacturers (NACM) Standard is acceptable in lieu of ASTM Standard for Section 3.3.8.8.

Question 18

Regarding Annex B (Technical Statement of Requirements), Section 3.3.8.10, is it acceptable to use chain manufactured in accordance with NACM (National Association of Chain Manufacturers) Welded Steel Chain Specifications in lieu of ASTM?

Response to Question 18

Yes, National Association of Chain Manufacturers (NACM) Standard is acceptable in lieu of ASTM Standard for Section 3.3.8.10.

Question 19

Regarding Annex B (Technical Statement of Requirements), Section 3.3.9.1, can fabric welds using hot-air welding methods be considered so long as Annex B (Technical Statement of Requirements), Section 3.3.9.3 is adhered to?

Response to Question 19

Refer to the Response to Question 10 in Solicitation Amendment 001.

Question 20

Regarding Annex B (Technical Statement of Requirements), Section 3.4.5, we plan on providing fluke-style anchors from commercially available sources, i.e., directly from anchor manufacturers. Will it be required to demonstrate that the welding used in the manufacture of these anchors conforms to the CCG's welding specifications?

Response to Question 20

For the anchors that are 'off-the-shelf products', conformance to the CCG Welding Specification is not required.

Question 21

Annex B (Technical Statement of Requirements), Section 3.3.1 does not define a freeboard or draft, while Annex B (Technical Statement of Requirements), Section 3.3.3.3 allows some variation in float diameter. Please advise if there is a freeboard requirement?

Response to Question 21

A freeboard requirement is not explicitly defined.

Question 22

Can you confirm that a minimum density of 1.8 lbs/ft³ is required for the foam flotation - Annex B (Technical Statement of Requirements), Section 3.3.8.6)?

Response to Question 22

The enquiry did not specify where the figure of 1.8 lbs/ft³ came from so Canada cannot comment on this particular figure.

The minimum gross buoyancy to weight ratio of each curtain boom section is defined in Annex B (Technical Statement of Requirements), Section 3.3.7.1.

Question 23

Can you provide clarification on the anchor kits, specifically the "patent anchor"?
Is any fluke-style anchor acceptable, or does it have to be Danforth brand itself?

Response to Question 23

Any fluke-style anchor is acceptable.

A Danforth brand anchor will satisfy the requirement (as noted in the Response to Question 15), however it is not necessary that it be that particular brand.

Question 24

Clarification of Annex B (Technical Statement of Requirements), Section 3.4.6 (Anchor Lights) is requested.

- a. Are the anchor lights meant to be separately floating lights, or are they meant to attach to the anchor / trip line buoys?
- b. Is solar power a requirement for these anchor lights in addition to battery power?

Response to Question 24

- a. Anchor lights are normally independent or separate buoys that can be attached to the boom where required.
- b. Solar power is not a requirement for the anchor lights.

Question 25

Can you confirm that only new or single use shipping containers are acceptable, and no used or multiple use shipping containers are acceptable?

Response to Question 25

Shipping instructions can be found in Part 7 (Resulting Contract Clauses), Article 7.17 (Shipping Instructions). Requirements regarding the condition of material supplied can be found in the general conditions 2030 (2016-04-04), General Conditions - Higher Complexity - Goods, in Article 08 (Condition of material).

Question 26

As Article 7.17.1 (Delivery and Unloading) was removed in Solicitation Amendment 1 - Revision 5, please clarify. Semi-trailers or flat deck do not have power tailgates, so most deliveries will arrive to destination and require unloading.

- a. Are we to assume forklifts are available at ALL locations to unload boom pallets, and if so, will federal government employees be available to operate the forklifts?
- b. If not, it is expected the boom will have to be unloaded by hand (breaking down the pallets), and then re-loaded onto pallets on the ground?

Please clarify so we can determine the amount of labour we will need to account for at each site beyond the driver of the truck.

Response to Question 26

CCG will assume the responsibility of unloading the goods upon delivery.

All major depots (delivery destinations) will have forklifts available that CCG personnel will operate.

In the event a delivery destination does not have an available forklift, CCG will take the necessary precautions to unload the goods.

Question 27

Regarding the continuous protection against water requirement in Annex B (Technical Statement of Requirements) Section 3.3.3.2, while new booms are understood to be fully sealed against water ingress, it is very common for booms to get small tears or cuts during use. Inevitably, water will enter the boom which, if left inside, causes water saturation of the flotation elements. Excess water should be evacuated prior to boom storage. Is there a requirement for a water egress system to allow booms to be drained of excess water?

Response to Question 27

There is no requirement for a water egress system.

Question 28

In reference to Annex B (Technical Statement of Requirements), Section 3.3.3.3, please advise if there is a minimum density requirement for the floatation element.

Response to Question 28

There is no minimum density requirement for the floatation element.

Question 29

In reference to Annex B (Technical Statement of Requirements), Section 3.3.8.4, units of density cannot be y/x^2 , but must be y/x^3 . It is assumed that the term "surface density" refers to the weight of the finished fabric. Please confirm.

Response to Question 29

Surface density or areal density is the mass per unit area of a fabric.

Question 30

In reference to Annex B (Technical Statement of Requirements), Section 3.3.8.11, can the end connectors be extruded from aluminum alloy 6063-T54?

Response to Question 30

Yes, 6063-T54 could serve as an appropriate substitute.

Question 31

Regarding Annex B (Technical Statement of Requirements), Sections 3.4.2, can Canada provide drawings with dimensions or photos of the desired towlines to ensure equipment offered will meet Canada's expectation and approval?

Response to Question 31

Canada will not be providing drawings or drawings of the towlines.

Question 32

Regarding Annex B (Technical Statement of Requirements), Section 3.4.2, can Canada provide drawings with dimensions or photos of the desired tow paravanes to ensure equipment offered will meet Canada's expectation and approval?

Response to Question 32

Canada will not be providing drawings or drawings of the tow paravanes.

Question 33

Regarding Annex B (Technical Statement of Requirements), Section 3.4.3.3, please confirm if the float portion of the paravane is also to be constructed of aluminum alloy consistent with Annex B (Technical Statement of Requirements), Section 3.4.3.2. Are plastic floats not permitted?

Response to Question 33

Plastic floats for the paravane are permitted, provided the plastic floats are of a robust, marine construction.

Question 34

Regarding Annex B (Technical Statement of Requirements), Section 3.4.5.3, ASTM F625 or the Beaufort Scale do not indicate surface current speeds.

- a. As current speeds are critical in determining anchoring requirements, please advise maximum current speed that the boom must be held against.
- b. Also, will the 1000 feet of boom be deployed in a taught, straight line or will the boom be deployed in a series of U's?

Response to Question 34

- a. The curtain boom will be anchored in position in low current situations (i.e., less than 0.75 knots).
- b. It is difficult to predict the operational deployment of boom. Again, the intention is not to deploy this type of boom in high current settings (i.e., only in conditions less than 0.75 knots).

Revision 20

In Annex B (Technical Statement of Requirements), replace Section 3.4.3.2 in its entirety with the following text:

- "3.4.3.2. Each tow paravane must be constructed from one of the following aluminum alloys:
- a) 5086-H116, as per ASTM B928/B928M-15, Standard Specification for High Magnesium Aluminum-Alloy Products for Marine Service and Similar Environments; or
 - b) 6061-T6, as per ASTM B209-14, Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; or
 - c) Another suitable alternative marine-grade, aluminum alloy with a high resistance to saltwater corrosion if approved by the Technical Authority."

Revision 21

In Annex B (Technical Statement of Requirements), replace Section 3.3.7.1 in its entirety with the following text:

"3.3.7.1. The gross buoyancy to weight ratio of each curtain boom section must be a minimum of 6-to-1."

Revision 22

In Annex 1 to Part 4 of the Bid Solicitation (Technical Bid Evaluation Plan),
in Appendix A (Mandatory Criteria),
for Item M12,
replace the following text:

"The buoyancy to weight ratio of each curtain boom section must be a minimum of 6-to-1."

with

"The gross buoyancy to weight ratio of each curtain boom section must be a minimum of 6-to-1."

Revision 23

In Annex B (Technical Statement of Requirements), replace Section 3.7.1.1 in its entirety with the following text:

"3.7.1.1. All curtain boom supplied by the Contractor must be delivered on wooden shipping pallets such that the size of the pallets used facilitates packaging, without compromising or damaging the curtain boom."

Revision 24

In Annex B (Technical Statement of Requirements), replace Section 3.5.6.1 in its entirety with the following text:

"3.5.6.1. NOT USED."

Solicitation No.
F7047-160033/A

Amd. No.
004

Buyer ID
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Client Ref. No
F7047-160033

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.