



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. 010
Client Reference No. - N° de référence du client F7047-160033	Date 2018-01-25
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 2018-02-01	
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 No.
F7047-160033/A

Amd. No.
010

Buyer ID
002erd

Client Ref. No
F7047-160033

SOLICITATION AMENDMENT 010

This Amendment is raised to issue an updated version of Annex 1 to Part 4 of the Bid Solicitation (Technical Bid Evaluation Plan) in its entirety based on its Revisions to date.

The bid must take into account the following information:

Revision 65

Replace Annex 1 to Part 4 of the Bid Solicitation (Technical Bid Evaluation Plan) in its entirety with the text found on the following 13 pages:

Annex 1 to Part 4 of the Bid Solicitation
Technical Bid Evaluation Plan

**Environmental Response Equipment Modernization/
Mobile Incident Command Equipment Project**

Boom – Curtain – Round Floatation Boom 24”

Section 1 INTRODUCTION

1.1 PURPOSE

This document is the Technical Bid Evaluation Plan which defines the criteria and the scoring system that will be used to evaluate the technical portion of each bid submitted in response to the Solicitation.

1.2 SCOPE

This document and the associated appendix contain a description of the technical evaluation process, identifies all the mandatory requirements to be evaluated, how each requirement will be scored, and defines the information required from the Bidder for its bid to be evaluated.

The technical portion of the bid submitted in response to the Solicitation will be evaluated as detailed within this technical evaluation plan, and the evaluation matrix that is included in Appendix A to this document.

Section 2 TECHNICAL BID EVALUATION

2.1 EVALUATION METHOD

By submitting a bid, the Bidder certifies that it meets all of the requirements of the Solicitation including those identified in the Statement of Work (SOW) and Technical Statement of Requirements (TSOR).

The technical portion of the bid will be evaluated using **Mandatory Criteria**, thus a bid must meet all mandatory criteria specified in Appendix A.

Mandatory criteria (M) are defined as requirements that must be met in order for the bid to be further considered for financial evaluation. Mandatory criteria listed in Appendix A refer to mandatory criteria that will be evaluated on a Compliant/Non-compliant basis only. The bid must provide evidence or substantiation as specified, and that evidence will be evaluated on a Compliant/Non-compliant basis. Failure to meet a mandatory criterion will render the bid non-responsive and it will be given no further consideration. If the bid meets all mandatory criteria, only then will the bid proceed to the financial evaluation performed by the Contracting Authority.

2.2 RESPONDING TO EVALUATION CRITERIA

Bidders must note that this document must be read in the context of the SOW and TSOR to ensure the requirements are fully understood in the context of the section of the SOW and TSOR from which they have been extracted.

For each mandatory criterion, the bid must comply with the criteria stated in **M1 to M29** inclusively. The bid must clearly demonstrate how each criterion is met through the indicated method of compliance (refer to 2.2.1), and should respond with a 'YES' or 'NO' in the 'Compliant' column. Additionally, the bid should provide the appropriate cross-reference where the information is located in the bid in the 'Bid Cross-Reference' column.

Canada will evaluate only the documentation provided with the bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

2.2.1 Method of Compliance

The following methods, as indicated in the “Method of Compliance” column of Appendix A, will be used to define the minimum information required in the bid against each requirement:

Technical Drawing: The bid must provide a visual representation of the specified piece of equipment (rendered to scale) that defines all the requirements needed for its manufacture or fabrication to illustrate how the proposed equipment fully complies with the requirement.

Description: The bid must provide a description (including, though not limited to, qualities and characteristics) of the specified piece of equipment, management system, or procedure to illustrate in detail how it fully complies with the requirement.

Bill of Materials: The bid must provide a bill of materials, including all parts, sub-assemblies, and components, as well as a brief description and quantity of each item used for the specified piece of equipment that pertains to the complementary drawing. The bill of materials will be used to illustrate how the proposed equipment fully complies with the requirement.

Specification: The bid must provide a detailed technical description of the specified piece of equipment, including, though not limited to physical dimensions and material properties of the equipment, to illustrate how the proposed equipment fully complies with the requirement.

Data Analysis: The bid must provide a detailed technical or engineering analysis in sufficient detail to demonstrate how the proposed equipment fully complies with the requirement.

Certification: The bid must provide an official document produced by a registered or accredited body that provides verification of the performance and/or manufacturing process of the specified piece of equipment (or individual components) to demonstrate how the proposed equipment fully complies with the requirement.

Invoice: The bid must provide copies of applicable invoices listing the goods provided including the following:

- Dates invoices were issued;
- Dates of deliveries of goods;
- Company name(s) or Government organization(s); and
- Associated quantities of goods sold.

Quality Acceptance Letter: The bid must provide a letter of reference from the customer who previously purchased produced goods from the entity which details, at a minimum, the delivery and quality acceptance of the goods in question. The letter must provide a brief description of the work performed, and time (month/year) at which the contract was awarded and completed. The letter must be produced on company

Technical Bid Evaluation

letterhead, include a phone number and/or email address which can be used to contact the customer, and be signed by an authorized representative of the company.

APPENDIX A MANDATORY CRITERIA

Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M1	The nominal height of each curtain boom section must be no less than 22 inches (in) and no larger than 24 in.	TSOR 3.3.1.4	Verification of curtain boom design and how the specified requirement is achieved.	Technical Drawing AND Bill of Materials.		
M2	The cross-section of each floatation element must be circular, with a constant nominal diameter no less than 6 in and no larger than 8 in.	TSOR 3.3.3.3	Verification of curtain boom design and how the specified requirement is achieved.	Technical Drawing AND Bill of Materials.		
M3	Each floatation element fitted between the end of a curtain boom section and a fold point, or two fold points must be a single, continuous extrusion.	TSOR 3.3.3.4	Verification of the internal construction of the curtain boom floats	Technical Drawing AND Description		
M4	The ends of each floatation element must facilitate flaking without adversely affecting the freeboard of the curtain boom sections (e.g., beveled ends).	TSOR 3.3.3.6	Verification of curtain boom design and how the specified requirement is achieved.	Technical Drawing AND Bill of Materials AND Description		
M5	Each curtain boom section must be constructed with a fully enclosed pocket to house the ballast chain tension member.	TSOR 3.3.4.7	Verification of the ballast chain tension member pocket requirements.	Technical Drawing AND Bill of Materials.		

TECHNICAL BID EVALUATION PLAN
Appendix A

Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M6	The ballast chain tension member pocket must be double-layered (at a minimum) to protect against abrasion. Both the inner and outer layers of the ballast chain tension member pocket fabric must be the same material as the body of the curtain boom.	TSOR 3.3.4.9	Verification of the ballast chain tension member pocket requirements.	Technical Drawing		
M7	Both longitudinal ends of each curtain boom section must incorporate the connector and cross-pin construction defined in the following Standard: ASTM F962-04 (2010), Standard Specification for Oil Spill Response Connection: Z-Connector . Canada will specify which type of ASTM end connector must be fitted to each curtain boom section.	TSOR 3.3.5.1	Verification of the dimensions and components of the end connectors.	Technical Drawing AND Description		

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Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M8	Both longitudinal ends of each curtain boom section must incorporate the connector and cross-pin construction defined in the following Standard: ASTM F2438-04 (2017), Standard Specification for Oil Spill Response Boom Connection: Slide Connector . Canada will specify which type of ASTM end connector must be fitted to each curtain boom section.	TSOR 3.3.5.1	Verification of the dimensions and components of the end connectors.	Technical Drawing AND Description		
M9	Any mechanical attachment point between the curtain boom material and the end connectors must minimize stress concentrations that could result in excessive abrasion or tearing.	TSOR 3.3.5.2	Verification of curtain boom design and how the specified requirement is achieved.	Technical Drawing AND Description		
M10	Each 50 ft curtain boom section must contain a minimum of one anchor point.	TSOR 3.3.6.1	Verification of curtain boom anchor points.	Technical Drawing		
M11	Each webbing handle must be attached to the top tension member using a seam construction (i.e., seam type, width, and stitching pattern) that allows the webbing handle to support (at a minimum) 200 pounds (lb) without permanent set, tearing, or elongation.	TSOR 3.3.6.6	Verification of curtain boom webbing handles requirements.	Technical Drawing AND Description		

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Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M12	The gross buoyancy to weight ratio of each curtain boom section must be a minimum of 6-to-1.	TSOR 3.3.7.1	Verification of the calculation of the buoyancy ratio of a single section of boom.	Specification AND Data Analysis		
M13	The curtain boom fabric must have the minimum mechanical properties listed in Table 1(of Annex B) when tested in accordance with ASTM D751-06 (2011), Standard Test Methods for Coated Fabrics.	TSOR 3.3.7.2	Verification of curtain boom fabric requirements.	Materials Specification		
M14	The tensile strength of the webbing top tension member must be a minimum of 8,000 lb when tested in accordance with ASTM D6775-13, Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape, and Braided Material.	TSOR 3.3.7.3	Verification of the tensile strength of the webbing top tension member.	Materials Specification		
M15	The total tensile strength of each curtain boom section must be a minimum of 10,000 lb when tested in accordance with ASTM F1093-99 (2012), Standard Test Methods for Tensile Strength Characteristics of Oil Spill Response Boom.	TSOR 3.3.7.5	Verification of the tensile strength of a complete section of boom.	Specification AND Data Analysis		
M16	The curtain boom fabric must consist of a polyester substrate and a polyvinyl chloride (PVC) topcoat.	TSOR 3.3.8.3	Verification of curtain boom fabric requirements.	Specification		
M17	The surface density of the curtain boom fabric must be a minimum of 22 ounces per square yard (oz/yd ²).	TSOR 3.3.8.4	Verification of curtain boom fabric requirements.	Specification		

TECHNICAL BID EVALUATION PLAN
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Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M18	All integral flotation elements must be fabricated from closed-cell, polyethylene foam.	TSOR 3.3.8.6	Verification of flotation element material requirements.	Specification		
M19	All end connectors must be extruded from aluminum alloy 6061-T6 as per ASTM B221-14, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tube.	TSOR 3.3.8.11	Verification of end connector material requirements.	Specification		
M20	All curtain boom fabric seams must be radio-frequency (RF) welded.	TSOR 3.3.9.1	Verification of curtain boom seam construction	Description		
M21	Each tow paravane must ensure that the curtain boom maintains a vertical attitude under tow.	TSOR 3.4.3.1	Verification of the performance of the tow paravane.	Technical Drawing AND Description		
M22	All attachments and hardware fitted to the tow paravane must withstand the minimum tensile strength specified in 3.4.2.2.	TSOR 3.4.3.10	Verification of the ability of the curtain boom to retain original freeboard while being towed using the paravane.	Technical Drawing AND Description		
M23	The minimum cumulative holding power of the five fluke-style, patent anchors must be sufficient to keep the length of curtain boom specified in 3.3.1.1 in a fixed position (given the water body type specified in 3.1.1.5 and a silt bed).	TSOR 3.4.5.3	Verification of the curtain boom anchor kit requirements.	Data Analysis		

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Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M24	Any storage container supplied must be an off-the-shelf item.	TSOR 3.5.1.1	Verification of the storage container requirements.	Technical Drawing		
M25	The storage container must conform to the dimensions (and tolerances) listed in Table 2 (of Annex B).	TSOR 3.5.1.1	Verification of the storage container requirements.	Technical Drawing		
M26	Unless otherwise specified by Canada, all supplied rigging equipment must conform to the requirements defined in the following Standards: a) SOR/2007 128, Cargo, Fumigation, and Tackle Regulations; b) ASME B30.26-2015: Rigging Hardware; and c) ASME B30.9-2014: Slings.	TSOR 3.5.6.2	Verification of the characteristics of the rigging equipment.	Certification		

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Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M27	The Quality Management System of the entity/entities performing the manufacturing and integration of the proposed product must comply with the requirements of: ISO 9001:2008 or ISO 9001:2015 - Quality Management Systems as specified in Annex A (Statement of Work).	SOW 3.2	Verification of the entity's quality management systems with reference to the stipulated ISO 9001:2008 or ISO 9001:2015 standards.	Certification OR Description* * 'Certification' is the required method of compliance only if the entity/entities maintain the ISO 9001:2008 or ISO 9001:2015 - Quality Management Systems Certification".		

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Appendix A

Item	Mandatory Criteria	Evaluation Factor or Reference	Evaluation	Method of Compliance	Compliant? Yes/No	Bid Cross Reference
M28	<p>The entity/entities performing the manufacturing and integration of the proposed product must have successfully* produced/manufactured curtain boom for two (2) different customers with each contract containing the following terms:</p> <p>(a) Deliveries made after January 1, 2008;</p> <p>(b) Delivery of a minimum of 25,000 ft. of curtain boom;</p> <p>(c) Customer must be from one of the following categories:</p> <p>(1) Oil and Gas Industry;</p> <p>(2) Marine Spill Response Organization; or</p> <p>(3) Government Department / Agency.</p> <p>* met delivery and quality requirements as stipulated in the contract</p>	Proven recent experience	Verification of the entity's recent experience conducting large-scale asset procurements with particular agencies.	Invoice for each completed contract AND Quality Acceptance Letter for each completed contract		
M29	Both the fabric production date and the boom manufacturer date of each 1000 ft of curtain boom must occur within 6 months of the date of delivery. The fabric must be stored in conditions recommended by the fabric producer at all times.	TSOR 3.3.8.2	Verification of curtain boom fabric requirements	Description		

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ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.