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11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Québec

K1A 0S5

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 Machinery and Services / Machineries et
services maritimes**

11 Laurier St. / 11, rue Laurier

6C2, Place du Portage

Gatineau

Québec

K1A 0S5

Title - Sujet EVAPORATORS	
Solicitation No. - N° de l'invitation F7049-160004/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client F7049-160004	Date 2016-06-07
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-035-25832	
File No. - N° de dossier 046ml.F7049-160004	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-06-14	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Laprise, JF	Buyer Id - Id de l'acheteur 046ml
Telephone No. - N° de téléphone (819) 420-2902 ()	FAX No. - N° de FAX (819) 956-0897
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See Herein	

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. - N° de l'invitation
F7049-160004/A
Client Ref. No. - N° de réf. du client
F7049-160004

Amd. No. - N° de la modif.
002
File No. - N° du dossier
046ml. F7049-160004

Buyer ID - Id de l'acheteur
035ml
CCC No./N° CCC - FMS No./N° VME

This solicitation Amendment 002 is raised to provide this questions and answers set 2.

Questions and Answers Set 2

Question 1

Annex A, Article 3.1: Steam is available at 5 to 7 Bar at a flow of 490 kg/hr @ 3.77 Bar. Required steam consumption for our unit is 530 kg/hr. Would it be acceptable?

Answer 1

Yes.

Question 2

Annex A, Article 3.1: Salt water flow 36 cubic meters per hour. Salt water flow for our unit is 17.3 m3/h. Would it be acceptable?

Answer 2

Yes.

Question 3

Annex A, Article 3.1: Jacket water flow 34 cubic meters per hour. Jacket water flow for our unit is 28.7 m3/h. Would it be acceptable?

Answer 3

Yes.

Question 4

Annex A, Article 3.1: Piping shall be on the forward end of the evaporator with the plates sliding aft for cleaning, as the existing piping is located in that area. Our unit has sea water outlet connection on opposite side. Would it be acceptable?

Answer 4

No.

Question 5

Annex A, Article 3.1: The design of the evaporator must allow the evaporator's piping, following its installation, to fit into the footprint describe in the above section. Our unit has heat booster for operation on steam. Would it be acceptable to place it outside of available footprint area?

Answer 5

No.

Question 6

Annex A, Article 3.2.3: The evaporator shall be of a proven technology supported by documentation. The desalination process (flash evaporation, separation, and condensation) shall be done in a single titanium plate pack. The vacuum shall be contained in the plate pack. This removes the requirement for an outer shell which increases the area needed for servicing. Our unit consists of two plate heat exchangers covered by outer casing. Would it be acceptable?

Answer 6

No.

Question 7

Annex A, Article 3.2.7: Emergency steam to the evaporator shall be supplied from the auxiliary boilers through a reducing station. The steam reducing station complete with isolating valves, pressure gauges, reducing valves, piping, safety valves and insulation etc. shall be supplied as a package with the evaporator. The steam component must meet the specification requirements of the evaporator to operate without the use of hot water from the central cooling system. Our heat booster won't require pressure reducing station as it can handle steam pressure 7 bar g. Would it be acceptable to leave pressure reducing station out?

Answer 7

Yes. All other listed items are still required (isolation valves etc.)

Question 8

Annex A, Article 3.2.8: The evaporator must be easy to service and clean in-situ. The evaporator frame must be designed so that the titanium plates can be slid along the frame with ample room to allow cleaning with a pressure washer and scrubbing brush, all within the footprint of the evaporator unit. Plates are not slid along the frame, but can be removed from casing for cleaning. Would it be acceptable?

Answer 8

No.

Question 9

Annex A, Article 3.2.10: All components or unit surfaces in direct contact with the unprocessed, partially processed, and concentrated residual feed water shall be 90-10 copper nickel material. Most of components of our unit are made of Stainless Steel. Would it be acceptable?

Answer 9

Yes, stainless steel would be acceptable. The quality of the stainless steel must be suitable to withstand the effects of the highly concentrated salt water brine solution.

Question 10

Annex A, Article 3.2.17: The evaporator must come equipped with two (2) digital water meters. The meters shall be capable of being connected to the alarm and monitoring system (VTS) for display of water produced.

- One meter is from the evaporator to the potable water tank; and
- One meter is from the evaporator to the boiler feed water tank.

We can supply these flow meters as loose supply. Would it be acceptable? If yes what is pipe diameter?

Answer 10

Yes. Pipe is 3/4".

Question 11

Annex A, Article 3.2.18: The evaporator water line must come equipped with an automatically operated three-way dump valve. In addition, a backflow prevent shall also be fitted in the product water line. We can supply it as loose supply. Would it be acceptable? If yes what is pipe diameter?

Answer 11

Yes. Pipe is 3/4".

Question 12

Annex B, Article 1.1: This Statement of Work (SOW) defines the technical and performance requirements for the new 6m3 Evaporator. Our unit produce 8 m3/h. Would it be acceptable?

Answer 12

Yes

Question 13

Annex B, Article 3.1: Maximum Height 1600mm. Our unit has maximum height 1680 mm with protruding thermometer. Would it be acceptable?

Answer 13

No.