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1713 Bedford Row
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Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**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
Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.E.)
Halifax
Nova Scot
B3J 1T3

Title - Sujet BIO Fish Lab Building Reno	
Solicitation No. - N° de l'invitation EB144-202130/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client EB144-20-2130	Date 2019-12-23
GETS Reference No. - N° de référence de SEAG PW-\$PWA-405-5958	
File No. - N° de dossier PWA-9-82078 (405)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-14	
Time Zone Fuseau horaire Atlantic Standard Time AST	
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: Kendell (PWA), Byron	Buyer Id - Id de l'acheteur pwa405
Telephone No. - N° de téléphone (902) 497-5345 ()	FAX No. - N° de FAX (902) 496-5016
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

Amendment 004 is raised for the following:

Question 1: Will full Green Globes Certification be required to be undertaken or simply a shadow process that in the opinion of the Consultant meets the standards of Green Globes.?

Answer 1: Full Green Globes Certification will be pursued on this project.

Question 2: Under Required Services – RS 1.0 Pre-Design Services – 1.1 Greenhouse Gas (GHG) Reduction Options Analysis – Energy Modelling and Simulation: Can PSPC confirm all software/apps that are pre-approved by PSPC for developing the energy model. Are there any that PSPC as not suitable or not approved for purposes of this project?

Answer 2: It is impractical for PSPC or any other government department for that matter to provide a full list of pre-approved software. A carbon neutral study energy modeling exercise is a deeper, more detailed energy modeling effort, different than the usual check box NECB compliance or LEED compliance. Consequently, we provided expectations and performance based spec and example of systems to be modelled. We do not believe BEM software like HAP, eQuest, CanQuest etc are meeting this criteria unless it can be proven otherwise. We had good results with IES – VE and with Energy Plus based software like Open Studio and Design Builder.

Question 3: Can PSPC elaborate on the anticipated phasing of the project, and whether or not particular sections or labs in the building need to remain operational throughout the project?

Answer 3: The demolition of the Fish Lab will be carried out as a separate phase, the construction will be one single phase. The Fish Lab will be fully vacated during construction, no spaces will be occupied during the construction phase.

Question 4: Parameters are required for allowed shutdowns during construction:

- a. What is required to be kept in operation during the renovations?
- b. Are there any areas within the Fish Labs building that cannot tolerate any shutdowns?
- c. Will the building be vacated wholly or partially during construction?

Answer 4:

- a. No Fish Lab spaces will be kept in operation during construction. Some building services feeding other adjacent buildings may need to remain during construction, these are identified in the RFP or will be identified in the schematic design phase.
- b. No Fish Lab spaces will be kept in operation during construction. Some building services feeding other adjacent buildings may need to remain during construction, these are identified in the RFP or will be identified in the schematic design phase.
- c. The building will be wholly vacated during construction.

Question 5: The size of the standby generators is provided. Is there sufficient spare capacity to serve the additional standby power loads in the renovated Fish Lab?

Answer 5: Yes the existing generators has sufficient capacity to serve additional load. However, the existing emergency distribution systems at the Fish Lab Building (panels, ATS, etc.) may require upgrade to suit the new load.

Question 6: Project Brief: Other General Mechanical Considerations (p13/31); states that PSPC does not allow use of experimental or unproven equipment and systems. Documental proof of historical capability and adaptability of all equipment and systems should be made available to PSPC.

- a. Should evidence provided relate to installation exclusively within Atlantic Region or can installations in similar locations be cited.
- b. Over what timeframe is 'historical capability' regarded as acceptable evidence of capability? This may be important as it related to some on-site renewable energy generating technologies.
- c. Does PSPC have specific concerns for experience relating to specific on-site renewable energy generating technologies or systems?

Answer 6:

- a. Similar locations in Canada could be cited as long as are relevant to our project. Very different climatic conditions in regards sun presence and exposure for solar PV, ground formation and thermal conductivity for geothermal, wind conditions etc will not prove beneficial to our specific project.
- b. The onsite renewable technologies proposed in all our carbon neutral studies so far which showed a reasonable level of fiscal viability (more or less) and GHG reduction potential, were solar related (PV, thermal solar, BIPV), geothermal, seawater, wind turbines and biomass. These do not require proof of historical capability since are not new technologies but rather proof of energy/GHG performance and financial investment (which will be shown through a 25 year LCCA) within the context of our facility and location.
- b. As per item b. the concerns are mostly with the viability of renewables within the context of our facility and location. Considering the available energy resources at BIO and the existing infrastructure we expect that some of the above mentioned technologies will not considered further other than providing an explanation of the rationale.

All other terms and conditions remain the same.