Public Works and Government Services Canada | Travaux publics et Services gouvernementaux Canada

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

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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

Scientific, Medical and Photographic Division / Division de l'équipement scientifique, des produits photographiques et pharmaceutiques
L'Esplanade Laurier
140 O'Connor Street,
East Tower, 7th Floor
Ottawa
Ontario
K1A 0S5

Title - Sujet Virtual Reality System	
Solicitation No. - N° de l'invitation W6369-20A010/A	**Amendment No. - N° modif.** 003
Client Reference No. - N° de référence du client W6369-20A010	**Date** 2019-10-16
GETS Reference No. - N° de référence de SEAG PW-$$PV-956-77593	
File No. - N° de dossier pv956.W6369-20A010	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2019-10-31**	**Time Zone** **Fuseau horaire** Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☐ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Courteau, Robert	**Buyer Id - Id de l'acheteur** pv956
Telephone No. - N° de téléphone (343) 550-1614 ( )	**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**	

Canada

Amendment 003 is raised to modify a deliver destination, and answer bidder questions.

1. Delivery Destination

AT: Appendix 2 to Annex A – Delivery Locations

DELETE: All references to *'Canadian Forces Base (CFB) Halifax, Halifax, N.S.'*

INSERT: In place, insert *'Canadian Forces Base (CFB) Gagetown, New Brunswick'*

2. Responses to Bidder Questions. Note: Answers are in this format.

1. Space

1.1 Does the military have space allocated already for the 3 systems? YES
1.2 Are there space constraints that we should take into consideration? YES
1.3 Are the three sites (Gagetown, Edmonton and Valcartier) ready for installation in February and March 2020? YES. Halifax, NS was replaced with Gagetown, NB.
1.4 What are the dimensions of the selected spaces? For planning purposes VR System should not be larger than 6m wide x 7m long x 4m high. Also, please refer to Annex 'A' Statement of Work (SOW) Para 3.2, i.

2. Use

2.1 The RFP requires a dual belt treadmill. The RFP doesn't specifically mention that the treadmill needs to have a force measurement system. May we assume that is the case though based upon the need for clinical gait analysis? YES
2.2 Is the system going to be used for research purposes? If yes, what kind of research? YES, physical & mental rehab.
2.3 Is DND interested in belt perturbation protocols (fast accelerations and decelerations of the belts)? YES
2.4 Real-time gait analysis is mentioned in the RFP as one of the uses. Does this include joint angles and joint moments to accommodate a full clinical gait report? YES
2.5 Will there be a dedicated operator for the system or would several therapists operate the system? Several physio & mental health therapists will operate the system.
2.6 For what kind of therapy is the system going to be used? For what type of patients and disorders? Cognitive Behavioural Therapy and Physical Rehabilitation.

3. Hardware

Platform/Treadmill

3.1 One of the mandatory requirements on page 29 is that '*The platform must have the ability to move in the X, Y and Z axis*'. Does 'platform' refer to treadmill? What exactly is meant by move in X.Y and Z axis? Does it refer to all 6 degrees of freedom (3 rotations and 3 translations) which would imply a 6 degrees of freedom moving platform (Stewart platform)? Or does it refer to just the three translations (sway, surge and heave)? Or would it include the sway, pitch and surge? Yes, sway, pitch and surge.

3.2 2.1, page 25: '*To provide for operator, clinician and patient safety, the platform must be level with and completely surround the dual treadmill belts.*' Does DND want the treadmill to be mounted in a pit? No pit.

3.3 2.2, page 25: *'Provide a minimum 45cm of walking space on each side of the treadmill belts.*' Does the walking space need to be level with the walking height of the patient or is ample space surrounding the treadmill sufficient. Please take into account that there is very limited, no time for customizations. Walking space must be min 45 cm on each side and at level of belt.

3.4 The Dynamic Sway is not part of the mandatory requirements but it is part of the Statement of Requirement on page 25, 2.5. Should we include it in the offering? Conditions in the SOW must still be met.

Projection

3.5 One of the mandatory requirements on page 30 is that *'There must be a minimum of two (2) LED projectors to project images and scenarios onto the flat screen'*. What is the reason that the projection has to consist of 2 projectors? Would one be fine if it covers the screen? Minimum of two projectors gives depth for 180 degree screen coverage.

3.6 Laser projectors have similar qualities to LED projectors: long use life, low maintenance, lower heat generation and with higher lumen output. Would Laser projectors also be sufficient? Please take into account that there is very limited to no time for the selection and testing of new projector types. No, LED is in the SOW

3.7 Would DND like to include belt/floor projection that would create a more immersive environment? NO

3.8 Would a 180 degree curved screen also be appropriate to provide a more immersive virtual surrounding, if space allows for it? Flat screen requested in the SOW, may be considered if still meeting the min / max dimensions.

Video and/or Motion Capture

3.9 On page 26, 5.1; What is meant here, video or motion capture cameras? If video, are 3 cameras sufficient? Want motion capture cameras, SOW says minimum 4.

3.10 For gait analysis we use 10 motion capture cameras. Does this meet DND's needs? SOW says minimum of four (4) so yes to ten (10).

3.11 5.2 page 26, Please clarify the meaning of synchronisation of motion capture cameras with the projectors? Does this refer to light noise interference with motion capture cameras? Synchronisation of motion capture cameras with the projectors is how to use markers in real time to affect what's happening on the screen.

BWS

3.12 Should a Body Weight Support system be included that is capable of unweighing the patient? Not required.

4. Software

4.1 Would DND like us to include applications? If yes, which type of applications? For the assessment and training of Gait (Gait Application Suite)? For the assessment and training of Balance (Balance Application Suite)? Applications for Dual Tasking (Dual Tasking Application Suite)? Other applications? All Software that's identified in the SOW.

4.2 Should a patient management system be included with the system? YES

4.3 Should software for analyzing gait offline and print gait reports be included? YES

4.4 What is the purpose of the Matlab software? Matlab: Data processing software, program for data analysis/post processing of data.

4.5 What exactly is the purpose of the Graphics Design Software? What is DND trying to achieve? Graphic Design: makes virtual worlds and content/models for the virtual world.

4.6 Would DND like to have EMG in real-time in their gait analysis? NO

5. Training

5.1 What level of technical training is expected? Can this be combined with operator training, covering troubleshooting and calibration of the system?
NO. Operator and Technical training are very different; they should be trained separately. As listed in the SOW, Virtual Realty System Technical Service Training – Extent and Level of Training: The contractor must provide, at a minimum, a three (3) day onsite hands-on technical training course for Canadian Forces Health Services Biomedical Engineering Technologist personnel. As a minimum, the training course must provide personnel with the knowledge necessary to operate the system, efficiently navigate the various menus, including the service menus, systems and sub-systems. Include comprehensive training on how to repair, calibrate and troubleshoot the system. At the completion of the training, personnel must be comfortable diagnosing, repairing and operating the virtual reality system.

6. Other Requirements

6.1 Is our understanding correct that for the first three systems/sites (Valcartier, Edmonton, and Halifax) providing the training in the French language is not a prerequisite? SOW says original training in all sites is to be completed in English but a bilingual trainer would probably be best for Valcartier.

6.2 On page 29 of the bid 'All mandatory criteria must be demonstrated and documented in the form of a user manual, technical specifications, technical/sales brochure, a certified letter, to be provided with the bidder's response at the time of proposal submission.' The RFP asks the bidder to submit a certified letter to demonstrate and document the mandatory requirements. What should be the contents of the certified letter? If a Certified letter is used, it should prove / demonstrate the mandatory requirements of the RFP.

7. Safety Stops:

7.1 Our system includes one E-Stop on the operator desk (always manned) and one on the main integration cabinet. 3 emergency light gates on the treadmill keep the patient safe within the walking space of the treadmill. We recommend the operator of the system is in sole control of the E-Stops to prevent the patient from initiating the E-Stop themselves. Is this configuration sufficient?
Minimum of four (4) emergency stops (e-stop) with one (1) e-stop located on the operator console and the remainder on the platform within easy reach of the patient.

8. CSA

8.1 Our devices comply with international applicable standards, such as the IEC 60601 standard family. The certification for the individual components of the system is already in place, the certification for the system as a whole needs to be carried out on-site through a 'Field Evaluation' from a 'Field Evaluation Engineer' to meet CSA SPE3000 requirements and to test the local

national differences. This has been carried out for all of our systems in Canada, usually on the last day of installation, with no issues. We normally work with the MET Testing Laboratory which is equivalent to CSA and recognized by the SCC. Would this be sufficient? Yes. Met Laboratories Inc. (MET) is on the list of recognized certification agencies.

9. Health Canada

9.1 In Canada, our systems fall under class 1 medical devices. Class 1 medical devices are not listed with the Health Canada Database and do not require a Health Canada Medical Device Establishment Licence (MDEL), at least not from the manufacturer. All our class 1 medical devices are imported and maintained under MDEL 5100. Would this be sufficient? On a side note: Please take into account that the medical certification may be affected if changes are made to components of the system that interact with the patient environment. According to the Health Canada website (Safe Medical Devices in Canada): Prior to selling a device in Canada, manufacturers of Class II, III and IV devices must obtain a Medical Device License. Although Class I devices do not require a License, they are monitored through Establishment Licenses. Therefore an Establishment License is required.

What is an establishment license?
An Establishment License permits importers, distributors, and manufacturers of Class I devices who do not sell their products through a licensed importer or distributor, to operate in Canada. Establishment Licensing ensures that the TPD is aware of the identity of establishments that are selling or manufacturing devices. In addition, it requires establishments to provide assurance to the TPD that regulatory requirements related to post-production activities have been met.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED