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Public Works and Government Services / Travaux
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Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3
Bid Fax: (613) 545-8067

**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
Public Works and Government Services / Travaux
publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

Title - Sujet Collaborative Robot Arms	
Solicitation No. - N° de l'invitation 23584-200544/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client 23584-200544	Date 2019-12-18
GETS Reference No. - N° de référence de SEAG PW-\$KIN-930-7960	
File No. - N° de dossier KIN-9-52138 (930)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-06	
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: Littlefield, Mike	Buyer Id - Id de l'acheteur kin930
Telephone No. - N° de téléphone (613) 545-8058 ()	FAX No. - N° de FAX (613) 545-8067
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 003 – is being issued in response to Offeror's questions and Canada's responses.

Q1: *Have python libraries.
Will you accept a flowchart-based HMI software, with no API?*

A1: Must have an API and python compatibility for programming into larger overall control system.

Q2: *Payload of at least 2 kg.
What is the maximum load requirement?
What is the reach distance minimum and maximum requirements?*

A2: Payload between 2-4 kg, reach distance between 400mm and 650mm – this is due to space constraints and cannot exceed 650mm.

Q3: *Repeatability of at least 0.04mm.
Will you accept +/- 0.05 mm of repeatability?*

A3: No – 0.04mm is required for the application as repeatability is critical to the performance of the system.

Q4: *Have Teach pendant capabilities and be able to save the final program.
Will you accept to have a teach pendant for high level control and use HDMI monitor or laptop for programming?*

A4: Teach pendant must be able to control and save programs and robot arm motion, as the pathing points must be accessible and integrate into different programs.

Q5: *TUV Certified
Exact TUV standards not provided. TUV is just a certification lab among SGS, UL, CSA and others that can certify collaborative robots. Will you accept the CSA (SPE-1000), ISO 12100:2010, EN 60204-1:2006/AC:2010, EN ISO 13849-1:2015, EN ISO 10218-1:2011, ISO/TS 15066:2016 instead of not identified TUV standards?*

A5: Must be certified by TUV Nord as the robot collaborative safety is critical, all EN ISO 13849-1, certified by TÜV NORD.

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23584-200544/A
Client Ref. No. - N° de réf. du client
23584-20-0544

Amd. No. - N° de la modif.
003
File No. - N° du dossier
KIN-9-52138

Buyer ID - Id de l'acheteur
KIN930
CCC No./N° CCC - FMS No./N° VME

Q6: *Be compatible with real-time simulation software such as RoboDK.
Will you accept if the off-line programming will be done through 3rd party Automappps software
(not included as part of proposed/quoted product)?*

A6: RoboDK compatibility necessary as 3d visualization of the robotic arm is important for system planning, RoboDK compatibility critical for programming.

Q7: *Have end user field serviceable joints.
Will it be acceptable if the service on joints if required, will be performed at project location by
certified technician? Most of collaborative robots have Joint design which is modular for easy
service but requires trained tech and calibration platform (technician will bring it to project location
if needed).*

A7: No - joints must be replaceable by user and calibrated without a trained technician required.

Q8: *Have communication ports such as Ethernet and USB.
Will Modbus and RS232 be acceptable as other forms of communication with the controller?*

A8: Modbus and RS232 not acceptable forms of communications, Ethernet and USB required for compatibility with current equipment.

Q9: *Will you accept the collaborative robot arm that has integrated vision camera and software as a
standard feature, or it needs to be removed before shipment?*

A9: A vision camera is not necessary for the project.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED