



**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, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

This Document contains a Security Requirement

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Vehicles & Industrial Products Division  
11 Laurier St./11, rue Laurier  
7A2, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Portable Coordinate Measuring	
<b>Solicitation No. - N° de l'invitation</b> W8486-184433/A	<b>Date</b> 2017-11-27
<b>Client Reference No. - N° de référence du client</b> 6000411658	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-404-73818	
<b>File No. - N° de dossier</b> hp404.W8486-184433	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-01-08</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Michele Mak	<b>Buyer Id - Id de l'acheteur</b> hp404
<b>Telephone No. - N° de téléphone</b> (873) 469-3338 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>          <b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>          <b>Signature</b>          <b>Date</b>	



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	Department of National Defence C/0 QETE Warehouse, Ramp 7, RM C-1113 45 Sacré-Coeur Blvd Gatineau, QC J8X 1C6	W8486	DEPARTMENT OF NATIONAL DEFENCE 101 COLONEL BY DR. OTTAWA Ontario K1A0K2 Canada



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	NSN - NNO: 6940-01-660-5285 TRAINING SET • • TARGET DESIGNATOR, LASER • Part Number Requested: 099-03915-01 or equivalent NSCM: (OVGY2) Faro Technologies Inc., F1 USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate Literature must be included with Your bid • • • •	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
2	NSN - NNO: 5999-01-660-5038 PARTS KIT,ELECTRONIC EQUIPMENT • Part Number Requested: C-ACC-05455-002 or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	KT	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
3	NSN - NNO: 5999-01-660-5142 ACCESSORY KIT,ELECTRONIC EQUIPMENT • Part Number Requested: 15366 or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	KT	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
4	NSN - NNO: 6640-01-660-4289 STAND, LABORATORY APPARATUS SUPPORT • Part Number Requested: 15531 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
5	NSN - NNO: 5210-01-660-5276 METER, RANGE, LASER • Part Number Requested: 14000-003 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
6	NSN - NNO: 5210-01-660-5268 METER, RANGE, LASER • Part Number Requested: 14000-002 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	





Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
7	NSN - NNO: 6625-01-660-4894 PROBE, TEST • Part Number Requested: 15951 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	3	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
8	NSN - NNO: 5210-01-660-5291 BASE, MAGNETIC • Part Number Requested: 11516 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	2	KT	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
9	NSN - NNO: 6625-01-660-4325 PROBE, TEST Part Number Requested: 11738 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	4	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
10	NSN - NNO: 6625-01-660-4321 PROBE, TEST • Part Number Requested: 11740 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	4	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
11	NSN - NNO: 6625-01-660-4210 PROBE, TEST • Part Number Requested: 12550 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	4	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
12	NSN - NNO: 6625-01-660-4317 PROBE, TEST • Part Number Requested: 14874 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	3	KT	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
13	NSN - NNO: 5995-01-660-4304 CABLE ASSEMBLY, SPECIAL PURPOSE, ELE CTRICA • Part Number Requested: 10445 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
14	NSN - NNO: 6130-01-660-6621 POWER SUPPLY • Part Number Requested: 20622 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	





Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
15	NSN - NNO: 6140-01-660-6636 BATTERY, STORAGE • Part Number Requested: 14705 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	3	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
16	NSN - NNO: 6130-01-660-6642 CHARGER, BATTERY • Part Number Requested: 14815 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
17	NSN - NNO: 5995-01-660-6629 CABLE ASSEMBLY, SPECIAL PURPOSE, E LECTRICA • Part Number Requested: XH11-0207 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
18	NSN - NNO: 5340-01-660-6433 COVER, PROTECTIVE, DUST AND MOISTURE SEAL • Part Number Requested: 14548 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
19	NSN - NNO: 5340-01-660-6911 COVER, PROTECTIVE, DUST AND MOISTURE SEAL Part Number Requested: 14549 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
20	NSN - NNO: 5340-01-660-6441 TUBE, EXTENSION, STAND AND ROLLER PI PE SUP • Part Number Requested: XH14-0140 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
21	NSN - NNO: 5340-01-660-6872 TUBE, EXTENSION, ST AND AND ROLLER P IPE SUP • Part Number Requested: XH14-0141 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
22	NSN - NNO: 5340-01-660-2897 TUBE, EXTENSION, STAND AND ROLLER PI PE SUP Part Number Requested: XH14-0153 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	





Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
23	NSN - NNO: 5210-01-660-5305 BASE, MAGNETIC Part Number Requested: ACCS0039 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	6	SE	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
24	NSN - NNO: 6625-01-660-6874 TRIPOD, TEST EQUIPMENT • Part Number Requested: 15532 or equivalent NSCM Requested: (OVGY2) Faro Technologies Inc., Fl USA • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid •	D - I	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
25	LASER TRACKER Standard 3 year Warranty • Part Number: SWS-LT-03 or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
26	ScanArm Standard 3 Years Warranty • Item Number: SWS-SA-03 or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	3	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
27	PolyWorks Insp Prem + MOD Prem (N) Item Number: SOFT90001 - N or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	2	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
28	PolyWorks Inspection Standard to Insp Prem + MOD Update • Item Number: SOFT90044-UG or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid • • •	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



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29	PolyWorks inspection + MOD Training 6 days onsite • Item Number: TRPOLY3DMAIONA (3 DAYS + 3 DAYS) NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
30	NSN - NNO: 6675-01-667-4502 LASER TRACKER SYSTEM • Item Number: C-KIT-04309-000-00 or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - I	W8486	1	Each	\$	XXXXXXXXXXXX		See Herein	





Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
31	CAM2 M10 Arm • Item Number: TR-AS-ARM-O or equivalent NSCM: (OVGY2) Faro Technologies Inc., Fl USA • 1 day Onsite Application Training • Part Number Offered: _____ NSCM: _____ • If proposing an alternate part number literature must be included with your bid	D - 1	W8486	3	Each	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
32	Optional Warranty	D - 1	W8486	1	YEAR	\$	XXXXXXXXXXXX		See Herein	
•										
•	Optional Warranty - 1 extra year totalling 4 year warranty									
•										



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
33	Training In accordance with (IAW) (SOW 3.2.3 & 4.2.3) • Nine ( 9) days, 7.5hrs/day Onsite training for up to six (6) participants Held at the client site in Gatineau, QC Training held in English, supporting documents are in English/French • • Bidder is required to identify the type of training that they will provide and insure that the trainees will receive the correct level of knowledge to be self-sufficient. • Training should be within 30 days after the equipment delivery. • All travel and expenses are at the supplier's charge All material and administrative fees cost must be included in the bid.	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	
34	Installation & Commissioning • IAW: (SOW 3.2.2 & 4.2.2) • •	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	
35	Removal & Disposal This is an "Option" •	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
35	IAW (SOW 3.2.1.1 & 4.2.1.1) •									
36	Trade INS Take in for credit, the existing CMM Equipment located in QETEs Facilities. • This is an "option" IAW (SOW 3.2.1.1.1)	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	
37	Preventative Maintenance & Calibra tion This is an "Option" • IAW (SOW 3.2.4.5)	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	
38	Technical Service Support • IAW (SOW 3.2.4)	D - 1	W8486	1	LOT	\$	XXXXXXXXXXXX		See Herein	

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Solicitation No. - N° de la sollicitation  
W8486-184433/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
HP404

Client Ref. No. - N° de réf. du client  
W8486-184433

File No. - N° du dossier  
hp404W8486-184433

CCC No. /N° CCC - FMS No/ N° VME

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## **Attachments**

Annex “A” – Security Requirements Checklist

Annex “B” – Statement of Work / Portable Coordinate Measuring Machine

Appendix 1- Mandatory Technical Evaluation Criteria / Portable Coordinate Measuring Machine

Annex “C” - Part 3 of the Bid Solicitation - Electronic payment Instruments

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirement**

1. Before award of a contract, the following conditions must be met:
  - (a) the Bidder must hold a valid organization security clearance as indicated in Part 6 - Resulting Contract Clauses;
  - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work sites must meet the security requirements as indicated in Part 6 - Resulting Contract Clauses;
  - (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful Bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
3. For additional information on security requirements, Bidders should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

### **1.2 Requirement**

The Department of National Defence requires the Portable Coordinate Measuring Machine as detailed herein, in accordance with Annex “B” - Statement of Work / Portable Coordinate measuring Machine and Appendix 1 – Mandatory Technical Evaluation Criteria and the “line item detail” included herein.

#### **1.2.1 Irrevocable options identified in Annex “B”- Statement of Work.**

- 1.2.1.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
- 1.2.1.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex “B”- Statement of Work.
- 1.2.1.3 The options may be exercised within twelve (12) months after contract award.

### **1.3 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

### **1.4 Trade Agreements**

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).



## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

**Delete:** sixty (60) days

**Insert:** ninety (90) days

#### 2.1.1 SACC Manual Clauses

B1000T	Condition of Material - Bid	2014-06-26
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### 2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered to all

bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section 1: Technical Bid**

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

##### **3.1.1 Equivalent Products**

- 1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
- 2.
  - a) designates the brand name and model and/or part number and NSCM/NCAGE of the substitute product;
- 3. Products offered as equivalent in form, fit, function and quality will not be considered if:
  - a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or

b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.

4. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to provide technical information demonstrating the equivalency (e.g. drawing, specifications, engineering reports and/or test reports, a sample of the product offered), or to demonstrate that the substitute product is equivalent to the item specified in the bid solicitation, at the sole cost of bidders, within **three (3) business days (or other delay specified herein)** of the request. If the bidder fails to provide the requested information within the specified delay, Canada may declare the bid non-responsive.

### **3.1.2 Substitute Products - Replaced Part Numbers from the OEM**

1. Products that are replaced part number (superseded or obsolete) from the OEM must be equivalent in form, fit, function, quality and performance to the original item(s) specified in the bid solicitation and will be considered where the bidder provides upon request of the Contracting Authority:
  - a) proof by submitting a copy of a Certificate of Conformity from the Original Equipment Manufacturer (OEM) providing justification/explanation that the part numbers are a replacement of the OEM parts specified herein and are equivalent in form, fit, function, quality and performance to the OEM's parts specified herein; or
  - b) all required technical information (as detailed in Part 3, Section I, 1 Equivalent Product) to demonstrate their technical compliance and to confirm form, fit, function, quality and performance of these replaced part numbers.
2. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate that the substitute product is equivalent to the item specified in the bid solicitation, at the sole cost of bidders, within **three (3) business days** (or other delay specified herein) of the request. If the bidder fails to provide the requested information within the specified delay, Canada may declare the bid non-responsive.

## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment specified in Part 6.

The Bidder must submit firm unit prices in "Line Item Detail". Prices should not be indicated in any other section of the bid.



### **3.1.3 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### **3.1.4 Exchange Rate Fluctuation Risk Mitigation**

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450](#) , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](#) , for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

### **Section IV: Additional Information**

Canada requests that bidders submit the following information:

### 3.1.5 Delivery Date

Delivery for all items is: January 31, 2018 . The best delivery that could be offered is:

- Item 001: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 002: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 003: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 004: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 005: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 006: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 007: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 008: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 009: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 010: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 011: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 012: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 013: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 014: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 015: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 016: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 017: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 018: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 019: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.

- Item 020: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 021: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 022: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 023: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 024: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 025: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 026: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 027: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 028: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 029: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 030: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.
- Item 031: \_\_\_\_\_ **Weeks/Calendar days** from the effective date of the contract.

3.1.6 Technical Service Support: **In Accordance with (SOW 3.2.4.1)**

The Contractor is requested to provide full service support and replacement parts available for a period of Seven (7) from the contract award date

Please provide a time period offered by the bidder: \_\_\_\_\_

3.1.7 Software Support Period : **In Accordance with (SOW 3.2.4.4)**

The Contractor is requested to provide Maintenance Releases for a period of ten (10) years from the Contract Award Date.

Please provide a time period offered by the bidder: \_\_\_\_\_

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

4.1.1.1 Bidders must submit, with their bid , the followings documents:

- 1) Appendix 1 - Mandatory Technical Evaluation Criteria / Portable Coordinate Measuring Machine.
  - a) Bidders must demonstrate their compliance with all technical evaluation criteria detailed in Appendix 1 - Technical Evaluation Criteria Matrix, by providing substantial information describing completely and in detail how each requirement is met or addressed. Simply repeating the statement contained in the bid solicitation is not sufficient.

#### **4.1.1.2 Equivalent Products**

Bidders proposing substitutes and/or alternatives must provide with their bid all the information requested as detailed in Part 3, "equivalent products" to be considered for evaluation.

#### **4.1.2 Financial Evaluation**

- 4.1.2.1 The purpose of the financial evaluation is to determine the lowest price using the information submitted in "Line item Detail".
- 4.1.2.2 Bids will be evaluated on an aggregate price basis for all the items and quantities

### **4.2 Basis of Selection**

A bid must comply with the requirements of the bid solicitation and meet all mandatory requirements to be declared responsive. The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract.



## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

#### 5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

## 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list at the time of contract award.

## 5.2.3 Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

### 5.2.3.1 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

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Bidders' Authorized Representative Signature

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Date

or

- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

<b>Green Practices within the Bidders' organization</b>	<b>Insert a checkmark for each criterion that is met</b>
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

#### **5.2.3.2 Substitute and Equivalent Products Conformance Certification**

The Bidder certifies that all Equivalent Products and Substitute Products proposed conform to the requirement detailed under the "Line Item Detail".

This certification does not relieve the bid from meeting the requirement detailed in Part 3, Section I, Substitute Products.

\_\_\_\_\_  
Bidder's authorized representative Signature

\_\_\_\_\_  
Date

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **6.1 Security Requirement**

- 6.1.1 The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
- 6.1.2 The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.
- 6.1.3 Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- 6.1.4 The Contractor/Offeror must comply with the provisions of the:
  - a. Security Requirements Check List and security guide (if applicable), attached at Annex A;
  - b. Industrial Security Manual (Latest Edition).

### **6.2 Requirement**

The Contractor must deliver the Portable Coordinate measuring Machine in accordance with Annex “B” – Statement of Work, and the items detailed under the “Line Item Detail”.

- 6.2.1 The Contractor grants to Canada irrevocable options identified in Annex “B”- Statement of Work.
  - 6.2.1.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
  - 6.2.1.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex “B”- Statement of Work.
  - 6.2.1.3 The options may be exercised within **Twelve (12)** months after contract award.

## 6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

### 6.3.1 General Conditions

2010A (2016-04-04) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.1.1 Section 09 of general conditions 2010A is amended by replacing the period of **twelve (12) months** by **twenty-four (24) months**.

All other provisions of the warranty section remain in effect.

### 6.3.2 Supplemental General Conditions

4003	Licensed Software	2010-08-16
4004	Maintenance and Support Services for Licensed Software	2013-04-25

## 6.4 Term of Contract

### 6.4.1 Delivery Date

The Contractor must make the delivery as follows:

Item 001 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 002 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 003 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 004 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 005 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 006 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 007 must be delivered on or before \_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 008 must be delivered on or before\_\_\_\_\_ (Date to be inserted bythe Contracting Authority at time of contract award.)

Item 009 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 010 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 011 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 012 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 013 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 014 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 015 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 016 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 017 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 018 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 019 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 020 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 021 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 022 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

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Item 027 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 028 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 029 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 030 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

Item 031 must be delivered on or before\_\_\_\_\_ (Date to be inserted by the Contracting Authority at time of contract award.)

## **6.4.2 After Sales Service**

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs; and a full range of repair parts for all items offered:

### **All Items:**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone Number: \_\_\_\_\_

## **6.5. Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Michele Mak

Title: Supply Specialist  
Organization: Public Works and Government Services Canada - Acquisitions Branch  
LEFT Directorate, HP Division,  
7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec,  
K1A 0S5  
Telephone: 873-469-3338  
Facsimile: 819 953-2953  
E-mail: Michele.mak@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### **6.5.2 Procurement Authority**

The Procurement Authority for the Contract is:

Department of National Defence  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.5.3 Technical Authority

The Technical Authority for the Contract is: \_\_\_\_\_ (If applicable)

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.5.4 Contractor's Representative

Name and telephone number of the person responsible for :

#### General enquiries

Name: \_\_\_\_\_ (To be completed by the bidder.)  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_  
E-mail: \_\_\_\_\_

#### Delivery follow-up

Name: \_\_\_\_\_ (To be completed by the bidder.)  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_  
E-mail: \_\_\_\_\_

### 6.6 Payment



### **6.6.1 Basis of Payment -Firm Unit Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), as specified in "Line Item Detail".

All firm unit prices in Canadian dollars must be Delivery Duty Paid (DDP) at destination, Incoterms 2000, including Canadian Custom Duties and Excise taxes where applicable, and applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable).

### **6.6.2 Electronic Payment of Invoices – Contract**

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);
- d. Large Value Transfer System (LVTS) (Over \$25M)

### **6.6.3 SACC Manual Clauses**

C2000C	Taxes - Foreign-based Contractor	2007-11-30
H1001C	Multiple Payments	2008-05-12
C3015C	Exchange rate fluctuation adjustment	2017-08-17

### **6.7 Invoicing Instructions**

The Contractor must submit invoices in accordance with the section entitled "Invoice submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

#### **Invoices must be distributed as follows:**

- (a) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

(b) One (1) copy must be forwarded to the following address:

Department of National Defence  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Attention: \_\_\_\_\_ (inserted by PWGSC)

## 6.8. Certifications

### 6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Ontario**

## 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) 2010A (2016-04-04) General Conditions - Goods (Medium Complexity);
- (c) Line Item Detail;
- (d) Annex "A" – Security Requirements Checklist
- (e) Annex "B" – Statement of Work – Portable Coordinate Measuring Machine
- (f) the Contractor's bid dated \_\_\_\_\_

## 6.11 SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2017-08-17
D2000C	Marking	2007-11-30

D2001C	Labelling	2007-11-30
D2025C	Wood Packaging Materials	2017-08-17
D5545C	ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)	2010-08-16
D6010C	Palletization	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2016-01-28

## 6.12 Packaging Requirement using Specification D-LM-008-036/SF-000

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package All Items in quantities of one (1) by package.

## 6.13 Condition of Material - Contract

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

## 6.14 Shipping Instructions - DDP Destination

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2000 "DDP Delivered Duty Paid":

Department of national Defence  
C/O QETE Warehouse  
Ramp 7, Room C-113  
45 Sacré-Coeur Blvd  
Gatineau QC J8X 1C6

Solicitation No. - N° de la sollicitation  
W8486-184433/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
HP404

Client Ref. No. - N° de réf. du client  
W8486-184433

File No. - N° du dossier  
hp404W8486-184433

CCC No. /N° CCC - FMS No/ N° VME

---

**PART 3 OF THE BID SOLICITATION**  
**Annex C – Electronic Payment Instruments**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)

# Annex "A" - Security Requirements Checklist (SRCL)

SEP 14 2017



Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat <b>W08486 - 184433</b>
Security Classification / Classification de sécurité Unclassified

## SECURITY REQUIREMENTS CHECK-LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine		2. Branch or Directorate / Direction générale ou Direction Quality Engineering Test Establishment (QETE)	
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Purchase, delivery, installation, testing, commissioning and training for Portables Coordinate Measuring Machine (CMM) at QETE Delivery Address: DND, QETE Supply, NPE Building, 45 Blvd Sacré-Cœur, Room C1113, Ramp 7, Gatineau, QC, J6X 1G6			
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis			
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada <input type="checkbox"/>		NATO / OTAN <input type="checkbox"/>	
Foreign / Étranger <input type="checkbox"/>			
7. b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions / Aucune restriction relative à la diffusion <input type="checkbox"/>		All NATO countries / Tous les pays de l'OTAN <input type="checkbox"/>	
Not releasable / À ne pas diffuser <input type="checkbox"/>		No release restrictions / Aucune restriction relative à la diffusion <input type="checkbox"/>	
Restricted to: / Limité à: <input type="checkbox"/>		Restricted to: / Limité à: <input type="checkbox"/>	
Specify country(ies): / Préciser le(s) pays:		Specify country(ies): / Préciser le(s) pays:	
7. c) Level of information / Niveau d'information			
PROTECTED A / PROTÉGÉ A <input type="checkbox"/> PROTECTED B / PROTÉGÉ B <input type="checkbox"/> PROTECTED C / PROTÉGÉ C <input type="checkbox"/> CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/> SECRET <input type="checkbox"/> TOP SECRET <input type="checkbox"/> TRÈS SECRET <input type="checkbox"/> TOP SECRET (SIGINT) <input type="checkbox"/> TRÈS SECRET (SIGINT) <input type="checkbox"/>		NATO UNCLASSIFIED / NATO NON-CLASSIFIÉ <input type="checkbox"/> NATO RESTRICTED / NATO DIFFUSION RESTREINTE <input type="checkbox"/> NATO CONFIDENTIAL / NATO CONFIDENTIEL <input type="checkbox"/> NATO SECRET <input type="checkbox"/> COSMIC TOP SECRET / COSMIC TRÈS SECRET <input type="checkbox"/>	
		PROTECTED A / PROTÉGÉ A <input type="checkbox"/> PROTECTED B / PROTÉGÉ B <input type="checkbox"/> PROTECTED C / PROTÉGÉ C <input type="checkbox"/> CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/> SECRET <input type="checkbox"/> TOP SECRET / TRÈS SECRET <input type="checkbox"/> TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT) <input type="checkbox"/>	

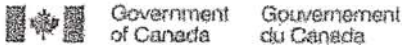
TBS/SC7 350-103(2004/12)

Security Classification / Classification de sécurité  
Unclassified

Canada



# Annex "A" - Security Requirements Checklist (SRCL)



Contract Number / Numéro du contrat <b>W8486-184423</b>
Security Classification / Classification de sécurité Unclassified

<b>PART 1 (COMMON) / PARTIE 1 (COMMUNE)</b>	
8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
If Yes, indicate the level of sensitivity: Dans l'affirmative, indiquer le niveau de sensibilité:	
9. Will the supplier require access to extremely sensitive INFOSEC information or assets? Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
Short Title(s) of material / Titre(s) abrégé(s) du matériel: Document Number / Numéro du document:	
<b>PART 2 (PERSONNEL) / PARTIE 2 (PERSONNEL) (FOURNISSEUR)</b>	
10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis	
<input checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL
<input type="checkbox"/> TOP SECRET - SIGINT TRÈS SECRET - SIGINT	<input type="checkbox"/> SECRET SECRET
<input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS	<input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL
	<input type="checkbox"/> NATO SECRET NATO SECRET
	<input type="checkbox"/> TOP SECRET TRÈS SECRET
	<input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
Special comments: Commentaires spéciaux: <u>Site access to operational zone required to install and test equipment and to train CETE staff on its use.</u>	
NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided. REMARQUE: Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.	
10. b) May unscreened personnel be used for portions of the work? Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
If Yes, will unscreened personnel be escorted? Dans l'affirmative, le personnel en question sera-t-il escorté?	<input type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
<b>PART 3 (SAFEGUARDS) / PARTIE 3 (MESURES DE PROTECTION) (FOURNISSEUR)</b>	
INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS	
11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises? Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets? Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
<b>PRODUCTION</b>	
11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises? Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
<b>INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)</b>	
11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data? Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency? Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?	<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité  
Unclassified

Canada

# Annex "A" - Security Requirements Checklist (SRCL)



Government  
of Canada

Gouvernement  
du Canada

Contract Number / Numéro du contrat

W8486-184433

Security Classification / Classification de sécurité  
Unclassified

## PART 1 - COMMUNIQUEZ PARTEGEZ SUIV

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.  
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.  
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

### SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COMSEC TOP SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET
				CONFIDENTIEL	TRÈS SECRET	NATO DIFFUSION RESTRICTÉE	NATO CONFIDENTIEL		COMSEC TRÈS SECRET	A	B	C	CONFIDENTIEL		TRÈS SECRET	
Information / Assets Renseignements / Biens Production																
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non

☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non

☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



# Annex "A" - Security Requirements Checklist (SRCL)



Government of Canada

Government of Canada

Contract Number / Numéro du contrat <b>W8486-184433</b>
Security Classification / Classification de sécurité Unclassified

PART D - AUTHORIZATION / PARTIE D - AUTORISATION			
13. Organization Project Authority / Chargé de projet de l'organisme			
Name (print) - Nom (en lettres moulées) <b>Donald Turcotte</b>		Title - Titre <b>Complex Projects Manager</b>	Signature <i>[Signature]</i>
Telephone No. - N° de téléphone <b>819-939-9149</b>	Facsimile No. - N° de télécopieur <b>819-937-2523</b>	E-mail address - Adresse courriel <b>donald.turcotte@forces.gc.ca</b>	Date <b>2nd March 2017</b>
14. Organization Security Authority / Responsable de la sécurité de l'organisme			
Name (print) - Nom (en lettres moulées) <b>Sasa Medjovic - DSSO - Industrial Security Senior Security Analyst</b>		Title - Titre <b>Tel: 613-996-0586</b>	Signature <i>[Signature]</i>
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel <b>E-mail: sasa.medjovic@forces.gc.ca</b>	Date <b>2017-Sept 13</b>
15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?			
			<input type="checkbox"/> No / <input checked="" type="checkbox"/> Yes / Oui
16. Procurement Officer / Agent d'approvisionnement			
Name (print) - Nom (en lettres moulées) <b>Valerie Bleskie</b>		Title - Titre <b>Procurement Officer</b>	Signature <i>[Signature]</i>
Telephone No. - N° de téléphone <b>819-939-6477</b>	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel <b>Valerie.Bleskie@forces.gc.ca</b>	Date <b>8 September 2017</b>
17. Contracting Security Authority / Autorité contractante en matière de sécurité			
Name (print) - Nom (en lettres moulées) <b>Sherry Campbell</b>		Title - Titre <b>Contract Security Officer, Contract Security Division</b>	Signature <i>[Signature]</i>
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel <b>Sherry.Campbell@tpsgc-pwgsc.gc.ca</b>	Date <b>September 29, 2017</b>
Tel/Tél - 613-948-1646 / Fax/Télec - 613-948-1712			

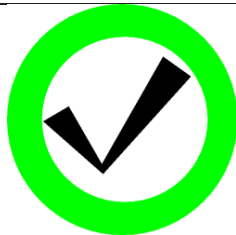


**ANNEX B - Statement of Work (SOW)**  
**W8486-184433/A**

**Portable Coordinate Measuring Machine**

**Customer Control Number:** NICP2017FARO  
**DND Document #:** RDIMS # 4449200  
**Date:** 16 November 2017

Prepared by:  
QETE 5-2-4  
Department of National Defence  
Quality Engineering Test Establishment  
NPB, 45 blvd Sacré Coeur  
Gatineau, QC J8X 1C6



**NOTICE**

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

# Statement of Work for Portable Coordinate Measuring Machine

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# Statement of Work for Portable Coordinate Measuring Machine

## 1. SCOPE

### 1.1. Objective

- 1.1.1. The purpose of this Statement of Work (SOW) is to define the technical requirements for a portable CMM system with laser tracker positioning and 3D scanning capability.

### 1.2. Background

- 1.2.1 The Quality Engineering Test Establishment (QETE) is a field unit within the Canadian Armed Forces (CAF) with the mandate to provide the Department of National Defence (DND) and the CAF with specialized, technology-based test and investigative services required to support engineering decisions throughout all phases of materiel acquisition and support. QETE provides technical advice and consultation, material evaluation, investigation and analysis, calibration and measurement, in the domains of mechanical and materials engineering, applied science, electrical engineering, measurement science and imagery.
- 1.2.2 QETE is planning for the Equipment, excluding accessories, to have a minimum design life of seven years. The term "design life" is used to express an expectation of the operational life of the equipment to function within the requirements defined within this SOW and the manufacturer's published specifications, as well as to define the period against which the overall capital and life cycle costs (e.g. maintenance and calibration) will be planned. For the Equipment defined within this SOW, design life conditions include operating for an average of 520 hours per year and in accordance with the manufacturer's specified operating and maintenance instructions.

### 1.3. Terminology

CAF	Canadian Armed Forces
CMM	Coordinate Measuring Machine
CSA	Canadian Standards Association
DND	Department of National Defence
FSR	Factory Service Representative
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
NPB	National Printing Bureau
OEM	Original Equipment Manufacturer
QETE	Quality Engineering Test Establishment
SOW	Statement of Work

**Table 1-1 Acronyms and Abbreviations**

## Statement of Work for Portable Coordinate Measuring Machine

m	Meter
mm	Millimeter
µm	Micrometer

**Table 1-2 Measurement Units**

## 2. REFERENCE DOCUMENTS

2.1. The following standards, references and documents apply to this SOW:

- 2.1.1. ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories
- 2.1.2. Canadian Electrical Code<sup>1</sup>
- 2.1.3. ISO 10360 Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS); Part 12:2016 Articulated arm coordinate measurement machines (CMM), and Part 8:2013 CMMs with optical distance sensors Annex D

## 3. REQUIREMENTS

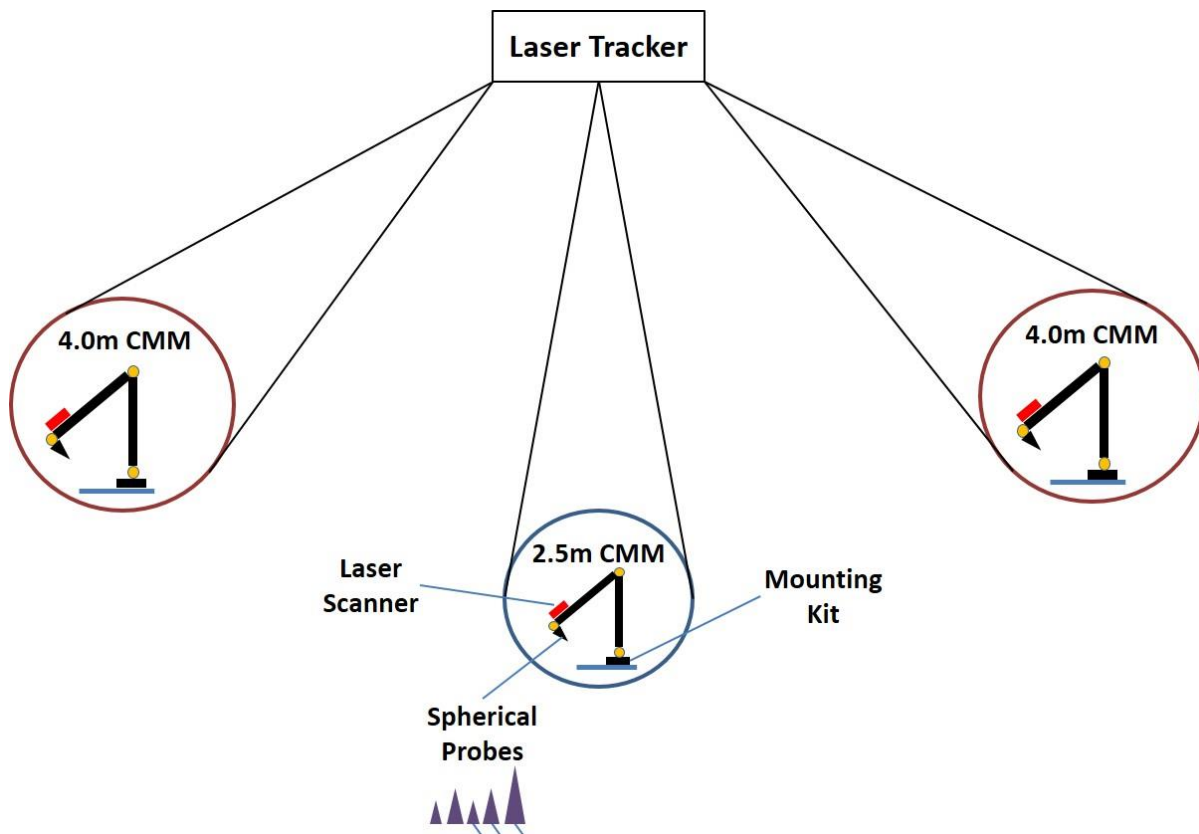
### 3.1. Scope of Work

- 3.1.1. QETE has a requirement for a portable arm type Coordinate Measuring Machine (CMM) to be used on various measuring and 3D scanning jobs ranging in size from small handheld objects to large vehicles/spaces and everything in between. Contact probing measurements, 3D scanning, and remote location of the CMM unit via laser tracking device are all requirements.
- 3.1.2. The Equipment is defined as including the following components. A functional diagram of the Equipment is shown in Figure 3-1.
  - 3.1.2.1. Laser Tracker;
  - 3.1.2.2. 4.0 meter 7 axis portable arm-type CMMs – quantity of two (2);
  - 3.1.2.3. 2.5 meter 7 axis portable arm-type CMM – quantity of one (1);
  - 3.1.2.4. Laser Scanners – quantity of three (3);
  - 3.1.2.5. Software; and
  - 3.1.2.6. Accessories.

---

<sup>1</sup> <http://www.csagroup.org/services/codes-and-standards/installation-codes/canadian-electrical-code/>

## Statement of Work for Portable Coordinate Measuring Machine



**Figure 3-1 Portable Coordinate Measuring Machine Functional Diagram**

### 3.1.3. General Requirements:

- 3.1.3.1. All electrical components of the Equipment must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.
- 3.1.3.2. The Equipment must be fully compatible with the following software:
  - (a) PolyWorks|Inspector™ Premium;
  - (b) PolyWorks Modeler™ Premium; and
  - (c) Metrolog X4.
- 3.1.3.3. The Equipment must meet the more stringent of the technical specifications stated in this Statement of Work or the manufacturer's published specifications.

## Statement of Work for Portable Coordinate Measuring Machine

- 3.1.3.4. The Equipment must meet the manufacturer's published specifications for any functional or performance parameter not specified in this Statement of Work.
- 3.1.4. Functional and Performance Requirements. The Equipment must perform the following functions and meet the following parameters:
  - 3.1.4.1. Laser Tracker:
    - (a) Functions as a standalone measurement system;
    - (b) Takes contact measurements at distances from a minimum of 0m up to at least 80m;
    - (c) Serves as a precision locating tool to locate an arm-type CMM when a task requires coverage exceeding the working volume of the arm-type CMM; and
    - (d) Can be remotely controlled over a wireless network connection from a smartphone or tablet while transmitting live video to allow a single user with complete remote control over the Laser Tracker.
    - (e) Distance measurement resolution must not be greater than 0.5 $\mu$ m;
    - (f) Maximum Permissible Error must not exceed 16  $\mu$ m +0.8  $\mu$ m/m;
    - (g) Horizontal length measurement Maximum Permissible Error must not exceed 0.019 mm/m at a distance of 2 m;
    - (h) Horizontal length measurement Maximum Permissible Error must not exceed 0.258 mm/m at a distance of 80 m;
    - (i) Emissions must not exceed Class I Laser Product classification;
    - (j) Capable of operating on battery power for at least four hours; and
    - (k) A continuous power supply must be provided to the CMM from battery power sources to allow the battery(ies) to be safely replaced by fresh battery(ies) without the need to shut down the tracker or to connect to a mains power source during the battery exchange (i.e. hot-swappable batteries).
  - 3.1.4.2. Coordinate Measuring Machines:
    - (a) Each CMM must be able to function as a standalone measurement system able to take contact measurements;
    - (b) One (1) of the CMMs must have a working volume of approximately 2.5 meters in diameter;

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- (c) Two (2) of the CMMs must have a working volume of approximately 4.0 meters in diameter;
- (d) All three CMMs must be manufactured by the same original equipment manufacturer (OEM) and be manufactured to the same hardware specification with the same compatibility with external hardware (e.g. accessories) and software;
- (e) All three CMM's must be of a 7 axis design, including:
  - 1) Axis 1: rotation movement at the base joint,
  - 2) Axis 2: pitch movement at the base joint,
  - 3) Axis 3: rotation movement at the middle joint,
  - 4) Axis 4: pitch movement at the middle joint,
  - 5) Axis 5: rotation movement at the end joint,
  - 6) Axis 6: pitch movement at the end joint, and
  - 7) Axis 7: rotation movement around the stylus axis for the purpose of functioning with a Laser Scanner attachment;
- (f) All three CMMs must be able to be located in 3-Dimensional (3-D) space by the Laser Tracker described in 3.1.4.1. when a task requires coverage exceeding the working volume of the CMM, as well as function independently of the Laser Tracker once located to allow measurements not in the line of sight of the Laser Tracker;
- (g) All three CMM's must communicate with probes connected to that CMM to relay probe identification, physical characteristics, and calibration data from the probe to the CMM;
- (h) The 2.5 meter 7 axis CMM must meet or exceed the following Maximum Permissible Error (MPE) requirements as defined in ISO 10360-12:2016:
  - 1) Single Point Articulation Test (SPAT):  $\pm 0.022$  mm or better
  - 2) Unilateral Distance Error (Euni):  $\pm 0.032$  mm or better
  - 3) Sphere Probing Size Error (Psize):  $\pm 0.012$  mm or better
  - 4) Sphere Probing Form Error (Pform):  $\pm 0.025$  mm or better
  - 5) Sphere Location Diameter Error (Ldia):  $\pm 0.048$  mm or better
- (i) The 2.5 meter 7 axis CMM must meet or exceed the following Maximum Permissible Error (MPE) requirement as defined in ISO 10360-8 Annex D: Sphere Location Diameter Error (Ldia) for non-contact measurement:  $\pm 0.048$  mm or better;

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- (j) The 4.0 meter 7 axis CMMs must meet or exceed the following Maximum Permissible Error (MPE) requirements as defined in ISO 10360-12:2016:
  - 1) Single Point Articulation Test (SPAT):  $\pm 0.055$  mm or better,
  - 2) Unilateral Distance Error (Euni):  $\pm 0.085$  mm or better,
  - 3) Sphere Probing Size Error (Psize):  $\pm 0.030$  mm or better,
  - 4) Sphere Probing Form Error (Pform):  $\pm 0.050$  mm or better, and
  - 5) Sphere Location Diameter Error (Ldia):  $\pm 0.120$  mm or better;
- (k) The 4.0 meter 7 axis CMMs must meet or exceed the following Maximum Permissible Error (MPE) requirement as defined in ISO 10360-8 Annex D: Sphere Location Diameter Error (Ldia) for non-contact measurement:  $\pm 0.092$  mm or better; and
- (l) All three CMMs must be capable of operating with the laser scanner functioning on battery power for at least four hours; and
- (m) For all three CMMs, a continuous power supply must be provided to the CMM from battery power sources to allow the battery(ies) to be safely replaced by fresh battery(ies) without the need to shut down the CMM or to connect to a mains power source during the battery exchange (i.e. hot-swappable batteries).

### 3.1.4.3. Laser Scanners:

- (a) Be designed to mount on and integrate with the CMMs;
- (b) Be able to scan surface geometries with an accuracy of the scanned surface of  $\pm 25$   $\mu$ m or better;
- (c) Be able to scan surface geometries with a repeatability of the scanned surface of  $\pm 25$   $\mu$ m or better;
- (d) Working scan range (depth of field) must not be less than 115 mm;
- (e) Points per line scanned must not be less than 2000;
- (f) Scan rate must not be less than 300 lines/second; and
- (g) Emissions must not exceed Class 2M Laser Product classification.

### 3.1.4.4. The Laser Tracker and CMMs working together as a long-range tracked and repositionable CMM must meet the following requirements:

- (a) Measurement accuracy of  $80$   $\mu$ m +  $5$   $\mu$ m/m or better; and



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- (b) Working distance between the laser tracker and the CMMs must be at least 80m.
- 3.1.5. Accessories: The Contractor must provide the accessories listed in Appendix A to the Statement of Work – Equipment Components Deliverables List.
- 3.1.6. Software Requirements:
  - 3.1.6.1. The Contractor must provide one license for the latest available version of Polyworks| Inspector# Premium + Modeller# Premium for each CMM for a total of three licences.
  - 3.1.6.2. In addition to the licences specified in 3.1.6.1, the Contractor must provide one upgrade licence from QETE's current Polyworks| Inspector# Standard licence to a Polyworks| Inspector# Premium + Modeller# Premium licence.
- 3.1.7. Temperature and Environmental Requirements:
  - 3.1.7.1. The Equipment must be capable of being stored without damage or degradation at any temperature between 0°C and +40°C.
  - 3.1.7.2. The Equipment must be capable of being continuously operated within tolerances without damage or degradation at any temperature between 10°C to +35°C.
  - 3.1.7.3. The Equipment must be capable of being continuously operated within tolerances without damage or degradation in humid environments not exceeding 95% relative humidity, non-condensing.
  - 3.1.7.4. The Equipment must be equipped with internal temperature compensation capability to ensure accurate performance throughout its operating temperature range.
- 3.1.8. Power Requirements:
  - 3.1.8.1. All Equipment must operate on 100-240 VAC, 47-63 Hz.
  - 3.1.8.2. When power is interrupted during data collection, the Laser Tracker and CMM must be capable of continuing short-term data collection or shutting down without loss in data integrity or corruption of the data already collected.
  - 3.1.8.3. When power is restored the Equipment must return to the operational state without damage or degradation to the system. This capability can include the use of batteries.

### 3.2. Tasks

- 3.2.1. Removal and disposal of existing coordinate measuring machine and laser scanner:

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- 3.2.1.1. The Contractor must offer as an option, to be exercised at the sole discretion of Canada, to remove and take in for credit, the existing CMM equipment located in QETE's facilities at the National Printing Bureau (NPB) building at 45 Sacré-Coeur Blvd, Gatineau, Québec in the Measurement Sciences laboratory. The existing equipment consists of the following:
- (a) One (1) 12 Foot Faro Platinum Arm, Model: P12, S/N: P12-05-08-06335, Figure 3-2 and Figure 3-3
  - (b) One (1) storage/travel case for 12 Foot Faro Platinum Arm, Figure 3-2
  - (c) One (1) Faro Laser Line Probe V3, S/N LP000804053, NSN 5860-20-A0K-8910, Figure 3-4 and Figure 3-5
  - (d) One (1) storage/travel case for Laser Line Probe, Figure 3-4



Figure 3-2

12 Foot Faro Platinum Arm in Storage/Travel Case

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Figure 3-3  
12 Foot Faro Platinum Arm – Identification Plate



Figure 3-4  
Faro Laser Line Probe V3 in Storage/Travel Case



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Figure 3-4

Faro Laser Line Probe V3 – Identification Plate

### 3.2.2. Installation and Commissioning

- 3.2.2.1. The Contractor must set up the Equipment in QETE's facilities at the National Printing Bureau building at 45 Sacré-Coeur Blvd, Gatineau, Québec in the Measurement Sciences laboratory.
- 3.2.2.2. The Contractor must perform all actions needed to commission the Equipment for operational use by QETE staff. Commissioning includes conducting all visual inspections, system checks, tests and any other activities specified by the manufacturer's standard operating procedures for commissioning new equipment to ensure that the Equipment will function in accordance with the requirements of this SOW as well as the manufacturer's specifications.
- 3.2.2.3. The setup and certification of Equipment must be performed by the Contractor's authorized factory service representatives (FSRs).
- 3.2.2.4. The Contractor must supply all tools and supplies needed by the Contractor's FSRs to complete the installation.
- 3.2.3. Training – The Contractor must provide the following training services and products:

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- 3.2.3.1. Provide on-site training in English on the proper operation and maintenance of the Equipment for up to six personnel;
- 3.2.3.2. Provide paper and electronic copies of all training materials provided and presented to students;
- 3.2.3.3. Training must consist of the following:
  - (a) Classroom training session:
    - i. Introduction and background of company and trainers,
    - ii. Equipment Overview,
    - iii. Hardware Design,
    - iv. Safety Design, and
    - v. Software Applications and Features; and
  - (b) a hands-on tutorial, which will include:
    - i. Equipment Start-up and Orientation,
    - ii. Equipment Shut-down, and
    - iii. System Software Application Orientation.
- 3.2.3.4. Training is expected to be provided over the following time periods:
  - (a) Three-day classroom training session covering the Contractor's recommended basic training package;
  - (b) Three-day classroom training session covering topics selected by QETE for advanced training; and
  - (c) Three-day hands-on tutorial training.
- 3.2.3.5. At the end of the first three-day classroom training session, the Technical Authority will advise the Contractor which topics will require additional in-depth training during the second classroom training session.
- 3.2.3.6. QETE will provide a classroom to accommodate up to six students and the Contractor training personnel for the classroom training, which will include:
  - (a) seating and appropriate table/desk space for all personnel attending the classroom training;
  - (b) a projector with USB Type A or VGA cable for connection to a portable computer (note that the portable computer will be provided by and used solely by the Contractor for training delivery and is not a deliverable under the Contract);
  - (c) a projector screen or surface; and
  - (d) a controlled access environment to allow the trainer to present proprietary information to the students.

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### 3.2.3.7. The hands-on tutorial will be conducted:

- (d) using the delivered Equipment and software after installation, testing and commissioning has been successfully completed by the Contractor; and
- (e) using QETE supplied test scenarios.

### 3.2.3.8. Training report and certificates:

- (a) Training Summary Report that identifies all students who participated in the training, the date(s) and location(s) of the training, and the instructor(s).
- (b) Training Certificate for each student that identifies the student's name and organization, the training activity, the date(s) and location(s) of the training, the approved training organization's name, logo, and authorized signature.

### 3.2.4. Technical Service Support

#### 3.2.4.1. Availability – The Contractor must:

- (a) ensure that full service support and replacement parts are available for a period of seven years following the date of delivery of the Equipment; and
- (b) without limiting the generality of Section 3.2.4.1.(a), provide Canada with a one year written notification prior to the Equipment parts no longer being available, and failing such notification, the Contractor must provide Canada sufficient notice to ensure that Canada may purchase the parts that are no longer available.

#### 3.2.4.2. Service Desk – A support service desk function must be provided to help Canada in answering questions with respect to the Equipment and Software that includes, at a minimum:

- (a) telephone technical support between the hours of 08:00 and 17:00 (Eastern Time), Monday to Friday, excluding public holidays;
- (b) e-mail technical support with a response within 48 hours excluding weekends and public holidays; and
- (c) on-line help resources, including contact information, product information and documentation downloads (e.g. product brochures, technical manuals).

#### 3.2.4.3. Product Notifications – Canada must be advised in writing as soon as reasonably possible in the event of:

- (a) any safety-related product recalls or advisories, component defects, and other similar events;

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- (b) any security vulnerabilities that are subsequently discovered; and
  - (c) any hidden or previously unknown defects that are subsequently discovered that may adversely affect product performance and/or functionality.
- 3.2.4.4. Software Support Period – The Contractor must provide Maintenance Releases for a period of seven years from the Contract Award date.
- 3.2.4.5. Maintenance and Calibration Services – Canada requires annual maintenance and calibration services for the Equipment for six years, commencing one year after the delivery of the Equipment. Services will be performed by the Contractor at the Contractor's facilities and will include:
  - (a) performing preventive maintenance specifically to prevent faults from occurring and to maintain the Equipment in satisfactory operating condition by conducting inspection, testing, measurements, adjustments, parts replacement, and correction of incipient failures either before they occur or before they develop into major defects;
  - (b) performing corrective maintenance to identify and correct any faults (including parts replacement if necessary) so that the failed Equipment can be restored to an operational condition within the tolerances required for in-service operations;
  - (c) performing calibration and recertification for the Laser Tracker, the CMMs and the Laser Scanners; and
  - (d) coverage for all parts replaced, labour needed to perform the services and return shipping to QETE.
- 3.2.4.6. The Contractor must provide a Preventive Maintenance Report for each maintenance visit in the Contractor's standard format that will include, at a minimum, the following information:
  - a. Date of report,
  - b. Date of maintenance services,
  - c. List of Equipment components serviced,
  - d. Description of results from inspections and tests performed,
  - e. Description of maintenance services provided,
  - f. Recommendations for the operation, care and maintenance of the Equipment until the next maintenance visit, and
  - g. Recommended date of the next maintenance visit.
- 3.2.4.7. The Contractor must place a sticker on the Equipment indicating the date on which any maintenance or calibration services were

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performed, or update any existing stickers on the Equipment following the performance of maintenance and calibration services.

### 3.2.5. Equipment Certifications

- 3.2.5.1. Certificate of Calibration\_– The Contractor must provide a Certificate of Calibration for a Traceable Calibration for the CMMs, the Laser Tracker and the Laser Scanners. The Traceable Calibration must include.
  - a) a verification that the performance of the delivered equipment meets factory specifications;
  - b) traceability to a National Metrology Institute; and
  - c) a compliant Certificate of Calibration containing the information listed in ISO/IEC 17025:2005.
- 3.2.5.2. Certificate of Conformance – The Contractor must provide a Certificate of Conformance to attest that the delivered equipment has been manufactured according to the Contractor's published specifications and has been verified to function as designed. The Certificate must identify the location and date of completion of manufacturing and must be signed by an authorized representative of the manufacturer.
- 3.2.5.3. Statement of Compliance – The Contractor must provide a Statement of Compliance to attest that the delivered equipment meets the requirements of the Contract. The Statement of Compliance may be provided within the Certificate of Conformance or as a separate document.
- 3.2.5.4. Statement of Continued Production and Support – The Contractor must provide a Statement of Continued Production to attest that the equipment is neither manufacturer-discontinued nor is there an intent to discontinue the manufacturing of the Equipment within one year. The Statement must also attest that the Contractor will continue to provide technical support and spare parts supply for a minimum of seven years following delivery of the Equipment.

### 3.2.6. Equipment Documentation – The Contractor must provide the following documentation in support of the delivered Equipment

- 3.2.6.1. User Operations Manual – provides detailed information about the functionality and operation of the Equipment and the care and maintenance of the Equipment that is normally performed by the user.

### 3.3. Constraints

- 3.3.1. All on-site work to deliver, install, test and commission the Equipment and to train QETE personnel must be performed during normal business hours (08:00 to 15:00).



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### 3.4. Support Provided by Canada

#### 3.4.1. Canada will provide the Contractor with:

- 3.4.1.1. Access to the job site;
- 3.4.1.2. Access to electric power; and
- 3.4.1.3. On-site parking at the Contractor's expense.

### 3.5. Time Frame and Delivery Dates

- 3.5.1. Equipment delivery – six weeks after contract award;
- 3.5.2. Equipment documentation – at the time of equipment delivery;
- 3.5.3. Setup and commissioning of equipment – within 30 days of Equipment delivery at a mutually agreeable date to be coordinated with the Technical Authority;
- 3.5.4. Training – within 30 days after equipment delivery; and
- 3.5.5. Certifications – with Equipment delivery.

### 3.6. Contractor Qualifications

- 3.6.1. The Contractor must be an approved supplier of the Original Equipment Manufacturer.
- 3.6.2. Personnel delivering training must be factory-trained representatives or must be approved as qualified trainers or by the Original Equipment Manufacturer.

## 4. DELIVERABLES

### 4.1. Equipment. The Contractor must provide the deliverables listed in Appendix A:

### 4.2. Services. The Contractor must provide the following deliverables:

- 4.2.1. Removal and disposal of existing coordinate measuring machine and laser scanner (optional service)
- 4.2.2. Installation and Commissioning Services;
- 4.2.3. Training Services; and
- 4.2.4. Annual Maintenance and Calibration Services for six years commencing one year after delivery of the equipment.

### 4.3. Documentation. The Contractor must provide the following deliverables:

- 4.3.1. Certificate of Calibration: Quantity of one (1) following each calibration
- 4.3.2. Certificate of Conformance: Quantity of one (1)
- 4.3.3. Statement of Compliance: Quantity of one (1)

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- 4.3.4 Statement of Continued Production and Support : Quantity of one (1)
- 4.3.5 Preventive Maintenance Report: Quantity of one (1) following each maintenance service activity.
- 4.3.6 User Operations Manual: Quantity of one (1) for each item delivered
- 4.3.7 Training Material: Quantity of one (1) per student
- 4.4 Format for Documentation
  - 4.4.1 Equipment documentation, reports, certificates and compliance statements must be provided in English.
  - 4.4.2 Equipment documentation and reports may be provided in Contractor format.
  - 4.4.3 Unless otherwise specified, certificates and compliance statements may be provided in Contractor format.
  - 4.4.4 Unless otherwise specified, electronic copies of deliverable documents may be delivered by e-mail to the Technical Authority.
  - 4.4.5 Document files provided in electronic format must provide users with the capability to search documents (e.g. keyword search).
  - 4.4.6 Unless otherwise specified, document files must be provided in PDF format.

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### Appendix A to Statement of Work – Equipment Components Deliverables List

No.	Component / Description	Qty
1	<b>Laser Tracker:</b> As per Section 3.1.4 of the SOW.	1
2	<b>4m Portable CMM:</b> As per Section 3.1.4 of the SOW.	2
3	<b>2.5m Portable CMM:</b> As per Section 3.1.4 of the SOW.	1
4	<b>Laser Scanner:</b> As per Section 3.1.4 of the SOW.	3
5	<b>Software Licenses</b>	
5.1	Software license for the latest available version of Polyworks  Inspector# Premium + Modeller# Premium for each CMM.	3
5.2	Software upgrade licence from QETE's current Polyworks  Inspector# Standard licence to a Polyworks  Inspector# Premium + Modeller# Premium licence	1
6	<b>Laser Tracker Accessories</b>	
6.1	<b>Laser Tracker Target Kit:</b> Must include all required targets and hardware to allow set-up and full function of the Laser Tracker as a standalone measuring device in every applicable scenario for which the machine is capable, as defined in the manufacturer's published specifications	1
6.2	<b>Laser Tracker Portable CMM Interface Kit:</b> Must include all required targets and hardware to allow set-up and full function of the Laser Tracker as a precision locating tool to locate an arm-type portable CMM as part of an integrated measurement system.	1
6.3	<b>Laser Tracker Shipping Case:</b> A heavy-duty shipping case to protect the laser tracker while in transit.	1
6.4	<b>Laser Tracker Stand with Shipping Case:</b> A portable and foldable stand with telescoping legs for height adjustment and a mount compatible with the Laser Tracker, providing a stable solid foundation from which the unit can perform within its stated performance requirements. Must include a shipping case for the stand.	1
6.5	<b>Laser Tracker Battery Sets:</b> One set includes a sufficient number of batteries to provide uninterrupted power to the laser tracker for four hours without recharging any of the batteries in the battery set.	2
6.6	<b>Laser Tracker Battery Charger:</b> Note - Quantity sufficient to simultaneously charge all batteries in one battery set.	See note
6.7	<b>Laser Tracker AC Power Supply:</b> Mains power supply for use instead of battery power	4
7	<b>CMM Accessories</b>	
7.1	<b>CMM Battery Sets:</b> One set includes a sufficient number of batteries to provide uninterrupted power to a CMM for four hours without recharging any of the batteries in the battery set.	6
7.2	<b>CMM Battery Charger:</b> Note - Quantity sufficient to simultaneously charge all batteries in one battery set per CMM.	See note

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No.	Component / Description	Qty
7.3	<b>CMM AC Power Supply:</b> Mains power supply for use instead of battery power	3
7.4	<b>CMM Calibration Kit:</b> Must contain all necessary hardware to calibrate the CMM prior to measurements	3
7.5	<b>CMM Base Plate:</b> Machined plate to allow mounting the CMM	3
7.6	<b>CMM Shipping Case:</b> A heavy-duty shipping case to protect the unit while in transit	3
7.7	<b>CMM Cover:</b> A dust cover to protect the CMM while not in use (sized to fit to each CMM)	3
7.8	<b>CMM Magnetic Mount:</b> Magnetic mount allows CMM to be mounted to ferrous surfaces	2
7.9	<b>CMM Communication Cable 10ft:</b> Cable for data communication between the CMM and computer	5
7.10	<b>CMM Communication Cable 16ft:</b> Cable for data communication between the CMM and computer	2
7.11	<b>CMM Tripod Stand with Shipping Case:</b> Heavy-duty folding tripod stand with CMM mount, telescoping legs, stabilizing struts to attach to work surface, retractable wheels, heavy duty shipping case	3
7.12	<b>CMM Tripod Stand Extension 5" Long:</b> Extends the CMM mount on the tripod	3
7.13	<b>CMM Tripod Stand Extension 10" Long:</b> Extends the CMM mount on the tripod	3
7.14	<b>CMM Tripod Stand Extension 20" Long:</b> Extends the CMM mount on the tripod	3
7.15	<b>CMM Magnetic Target Cones:</b> Magnetic cones used when leapfrog repositioning the CMM	18
7.16	<b>CMM Communicating Stylus 2mm:</b> Spherical measuring stylus with electronic connection that communicates its relevant physical calibration characteristics with the CMM	4
7.17	<b>CMM Communicating Stylus 3mm:</b> Spherical measuring stylus with electronic connection that communicates its relevant physical calibration characteristics with the CMM	4
7.18	<b>CMM Communicating Stylus 6mm:</b> Spherical measuring stylus with electronic connection that communicates its relevant physical calibration characteristics with the CMM	4
7.19	<b>CMM Communicating Stylus 12mm:</b> Spherical measuring stylus with electronic connection that communicates its relevant physical calibration characteristics with the CMM	4
7.20	<b>CMM Communicating Stylus Universal Base:</b> Universal base with that allows using standard stylus systems that do not have the ability to communicate with the CMM	6
7.21	<b>CMM Stylus 2mm:</b> Spherical measuring stylus, standard non-communicating	3
7.22	<b>CMM Stylus 3mm:</b> Spherical measuring stylus, standard non-communicating	3
7.23	<b>CMM Stylus 6mm:</b> Spherical measuring stylus, standard non-communicating	3

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No.	Component / Description	Qty
7.24	<b>CMM Stylus 12mm:</b> Spherical measuring stylus, standard non-communicating	3
7.25	<b>CMM Stylus Point:</b> Measuring Stylus with sharp carbide point	2
7.26	<b>CMM Stylus Extension 50mm:</b> Extension for standard measuring styli	3
7.27	<b>CMM Stylus Extension 100mm:</b> Extension for standard measuring styli	3
7.28	<b>CMM Stylus Extension Joint 21mm:</b> Extension for standard measuring styli	3

## Appendix 1 - MANDATORY TECHNICAL EVALUATION CRITERIA

### Portable Coordinate Measuring Machine

#### 1. General Instructions

The Bid must meet the mandatory technical criteria specified below. Bidders must provide the necessary documentation to support compliance with the requirements, including technical data sheets, specifications, brochures and/or other relevant technical documentation describing the equipment offered and demonstrating compliancy. Each mandatory technical criterion should be addressed separately and in the order presented below.

#### 2. Mandatory Technical Criteria

No.	Mandatory Technical Criteria	Supporting Evidence Required
M1	<p>Bidders must propose equipment that must not be a prototype or test unit, but standard proven equipment of the manufacturer and contains reliable state-of-the-art technology. In order to demonstrate this requirement, Bidders must provide with their bid, a list of at least two (2) valid projects identifying customers who have recently purchased the equipment. For a project to be considered valid, it is necessary that the equipment specified in the project:</p> <p>a) be a similar product (i.e. meets all technical specifications described in Section 3.1 of the Statement of Work);</p> <p>and</p> <p>b) was sold in the previous 24 months of the Solicitation closing date.</p>	<p>Bidders must submit with their bid, the following information for each project:</p> <p>a) the brand name and model of the equipment sold;</p> <p>b) the date of sale;</p> <p>c) technical details of the equipment sold;</p> <p>d) a description of how the equipment sold meets the requirements of Criterion M1; and</p> <p>e) customer contact information, which should include organization name, organization address, contact name, contact telephone number, and contact e-mail address.</p> <p>The provided information may be verified with the Bidder's customer to confirm its accuracy. If the information verification does not match the requirements, then the Bid may be declared non responsive.</p>
M2	<p>Bidders must provide supporting evidence in their proposal to demonstrate that their proposed solution meets the mandatory requirements specified in the Mandatory Requirements Compliancy Matrix.</p>	<p>Bidders should complete the Mandatory Requirements Compliancy Matrix.</p>

### 3. Mandatory Requirements Compliance Matrix

Where *Provide Proposal Reference or Description* is indicated for the Bidder's response, Bidders must either provide a reference to their technical proposal where information can be found that clearly shows how the requirement is met by the proposed solution, or provide a description of how the requirement is met. **Where the Bidder's technical documentation does not clearly demonstrate that the equipment offered will meet a specific requirement, the Bidder's proposal must provide additional descriptions of how the requirement will be met by the proposed solution.**

Where *Provide Statement of Compliance* is indicated for the Bidder's response, Bidders must commit to complying with the requirement during the performance of the work. Bidders may indicate "Yes" in the Compliant column, which will be a commitment to comply, or they may provide a statement committing to comply.

MANDATORY REQUIREMENTS COMPLIANCY MATRIX				
SOW Para. #	MANDATORY REQUIREMENT	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT MET
		Yes	No	
3.	REQUIREMENTS			
3.1.	Scope of Work			
3.1.3.	General Requirements:			
3.1.3.1.	All electrical components of the Equipment must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.3.2.	The Equipment must be fully compatible with the following software:	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
(a)	PolyWorks InspectorTM Premium;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(b)	PolyWorks ModelerTM Premium; and	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(c)	Metrolog X4.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.4.	Functional and Performance Requirements. The Equipment must perform the following functions and meet the following parameters:	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.4.1.	Laser Tracker:			
(a)	Functions as a standalone measurement system;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(b)	Takes contact measurements at distances from a minimum of 0m up to at least 80m;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(c)	Serves as a precision locating tool to locate an arm-type CMM when a task requires coverage exceeding the working volume of the arm-type CMM; and	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>

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		Yes	No	
(d)	Can be remotely controlled over a wireless network connection from a smartphone or tablet while transmitting live video to allow a single user with complete remote control over the Laser Tracker.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(e)	Distance measurement resolution must not be greater than 0.5µm;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(f)	Maximum Permissible Error must not exceed 16 µm +0.8 µm/m;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(g)	Horizontal length measurement Maximum Permissible Error must not exceed 0.019 mm/m at a distance of 2 m;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(h)	Horizontal length measurement Maximum Permissible Error must not exceed 0.258 mm/m at a distance of 80 m;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(i)	Emissions must not exceed Class I Laser Product classification;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(j)	Capable of operating on battery power for at least four hours; and	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(k)	A continuous power supply must be provided to the CMM from battery power sources to allow the battery(ies) to be safely replaced by fresh battery(ies) without the need to shut down the tracker or to connect to a mains power source during the battery exchange (i.e. hot-swappable batteries).	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.4.2.	Coordinate Measuring Machines:			
(a)	Each CMM must be able to function as a standalone measurement system able to take contact measurements;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(b)	One (1) of the CMMs must have a working volume of approximately 2.5 meters in diameter;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(c)	Two (2) of the CMMs must have a working volume of approximately 4.0 meters in diameter;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(d)	All three CMMs must be manufactured by the same original equipment manufacturer (OEM) and be manufactured to the same hardware specification with the same compatibility with external hardware (e.g. accessories) and software;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>



MANDATORY REQUIREMENTS COMPLIANCY MATRIX				
SOW Para. #	MANDATORY REQUIREMENT	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT MET
		Yes	No	
(e)	<p>All three CMM's must be of a 7 axis design, including:</p> <p>1) Axis 1: rotation movement at the base joint,</p> <p>2) Axis 2: pitch movement at the base joint,</p> <p>3) Axis 3: rotation movement at the middle joint,</p> <p>4) Axis 4: pitch movement at the middle joint,</p> <p>5) Axis 5: rotation movement at the end joint,</p> <p>6) Axis 6: pitch movement at the end joint, and</p> <p>7) Axis 7: rotation movement around the stylus axis for the purpose of functioning with a Laser Scanner attachment;</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(f)	<p>All three CMMs must be able to be located in 3-Dimensional (3-D) space by the Laser Tracker described in 3.1.4.1. when a task requires coverage exceeding the working volume of the CMM, as well as function independently of the Laser Tracker once located to allow measurements not in the line of sight of the Laser Tracker;</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(g)	<p>All three CMM's must communicate with probes connected to that CMM to relay probe identification, physical characteristics, and calibration data from the probe to the CMM;</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>

MANDATORY REQUIREMENTS COMPLIANCY MATRIX				
SOW Para. #	MANDATORY REQUIREMENT	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT MET
		Yes	No	
(h)	<p>The 2.5 meter 7 axis CMM must meet or exceed the following Maximum Permissible Error (MPE) requirements as defined in ISO 10360-12:2016:</p> <ol style="list-style-type: none"> <li>1) Single Point Articulation Test (SPAT): <math>\pm 0.022</math> mm or better</li> <li>2) Unilateral Distance Error (Euni): <math>\pm 0.032</math> mm or better</li> <li>3) Sphere Probing Size Error (Psize): <math>\pm 0.012</math> mm or better</li> <li>4) Sphere Probing Form Error (Pform): <math>\pm 0.025</math> mm or better</li> <li>5) Sphere Location Diameter Error (Ldia): <math>\pm 0.048</math> mm or better;</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(i)	<p>The 2.5 meter 7 axis CMM must meet or exceed the following Maximum Permissible Error (MPE) requirement as defined in ISO 10360-8 Annex D: Sphere Location Diameter Error (Ldia) for non-contact measurement: <math>\pm 0.048</math> mm or better;</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(j)	<p>The 4.0 meter 7 axis CMMs must meet or exceed the following Maximum Permissible Error (MPE) requirements as defined in ISO 10360-12:2016:</p> <ol style="list-style-type: none"> <li>1) Single Point Articulation Test (SPAT): <math>\pm 0.055</math> mm or better,</li> <li>2) Unilateral Distance Error (Euni): <math>\pm 0.085</math> mm or better,</li> <li>3) Sphere Probing Size Error (Psize): <math>\pm 0.030</math> mm or better,</li> <li>4) Sphere Probing Form Error (Pform): <math>\pm 0.050</math> mm or better, and</li> <li>5) Sphere Location Diameter Error (Ldia): <math>\pm 0.120</math> mm or better;</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(k)	<p>The 4.0 meter 7 axis CMMs must meet or exceed the following Maximum Permissible Error (MPE) requirement as defined in ISO 10360-8 Annex D: Sphere Location Diameter Error (Ldia) for non-contact measurement: <math>\pm 0.092</math> mm or better; and</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(l)	<p>All three CMMs must be capable of operating with the laser scanner functioning on battery power for at least four hours; and</p>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>

MANDATORY REQUIREMENTS COMPLIANCY MATRIX				
SOW Para. #	MANDATORY REQUIREMENT	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT MET
		Yes	No	
(m)	For all three CMMs, a continuous power supply must be provided to the CMM from battery power sources to allow the battery(ies) to be safely replaced by fresh battery(ies) without the need to shut down the CMM or to connect to a mains power source during the battery exchange (i.e. hot-swappable batteries)	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.4.3.	Laser Scanners:			
(a)	Be designed to mount on and integrate with the CMMs;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(b)	Be able to scan surface geometries with an accuracy of the scanned surface of $\pm 25 \mu\text{m}$ or better;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(c)	Be able to scan surface geometries with a repeatability of the scanned surface of $\pm 25 \mu\text{m}$ or better;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(d)	Working scan range (depth of field) must not be less than 115 mm;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(e)	Points per line scanned must not be less than 2000;	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(f)	Scan rate must not be less than 300 lines/second; and	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(g)	Emissions must not exceed Class 2M Laser Product classification.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.4.4.	The Laser Tracker and CMMs working together as a long-range tracked and repositionable CMM must meet the following requirements:			
(a)	Measurement accuracy of $80 \mu\text{m} + 5 \mu\text{m}/\text{m}$ or better; and	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
(b)	Working distance between the laser tracker and the CMMs must be at least 80m.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.5.	Accessories: The Contractor must provide the accessories listed in Appendix A to the Statement of Work – Equipment Components Deliverables List	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Proposal Reference or Description</i>
3.1.6.	Software Requirements:			
3.1.6.1.	The Contractor must provide one license for the latest available version of Polyworks  Inspector# Premium + Modeller# Premium for each CMM for a total of three licences.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>

MANDATORY REQUIREMENTS COMPLIANCY MATRIX				
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		Yes	No	
3.1.6.2.	In addition to the licences specified in 3.1.6.1, the Contractor must provide one upgrade licence from QETE's current Polyworks  Inspector# Standard licence to a Polyworks  Inspector# Premium + Modeller# Premium licence.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.7.	Temperature and Environmental Requirements:			
3.1.7.1.	The Equipment must be capable of being stored without damage or degradation at any temperature between 0°C and +40°C.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.7.2.	The Equipment must be capable of being continuously operated within tolerances without damage or degradation at any temperature between 10°C to +35°C.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.7.3.	The Equipment must be capable of being continuously operated within tolerances without damage or degradation in humid environments not exceeding 95% relative humidity, non-condensing.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.7.4.	The Equipment must be equipped with internal temperature compensation capability to ensure accurate performance throughout its operating temperature range.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.8.	Power Requirements:			
3.1.8.1.	All Equipment must operate on 100-240 VAC, 47-63 Hz.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>
3.1.8.2.	When power is interrupted during data collection, the Laser Tracker and CMM must be capable of continuing short-term data collection or shutting down without loss in data integrity or corruption of the data already collected. When power is restored the Equipment must return to the operational state without damage or degradation to the system. This capability can include the use of batteries.	<input type="checkbox"/>	<input type="checkbox"/>	<i>Provide Statement of Compliance</i>