



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions\Travaux publics et Services
gouvernementaux Canada
See herein for bid submission
instructions/
Voir la présente pour les
instructions sur la présentation
d'une soumission
NA
Ontario

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

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

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

Title - Sujet 3 D Laser Scanner System 3 D Laser Scanner System	
Solicitation No. - N° de l'invitation W4948-21ER05/A	Date 2021-01-11
Client Reference No. - N° de référence du client W4948-21-ER05	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-519-8275	
File No. - N° de dossier KIN-0-54255 (519)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-01-27 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Choquette, Herb	Buyer Id - Id de l'acheteur kin519
Telephone No. - N° de téléphone (613) 449-8446 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Department of National Defence Astra, ON	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment, and the Electronic Payment Instruments.

1.2 Summary

The Department of National Defence (DND), CFB Trenton requires equipment as detailed under Article 6.2 of the resulting contract clauses.

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 epost Connect service

This bid solicitation requires bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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](#) (2020-05-28), 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: 60 days

Insert: 120 days

2.2 Submission of Bids

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

PWGSC Ontario Region Bid Receiving Unit

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

TPSGC.oreceptiondessaoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.

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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) 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.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
- Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

The Bidder must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

Bids transmitted by facsimile or hardcopy will not be accepted.

Section I: 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.

Section II: Financial Bid

3.1.1 Bidders must submit their financial bid in accordance with Annex "B", Basis of Payment.

3.1.2 Electronic Payment of Invoices – Bid

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

If Annex "D" 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.

3.1.3 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

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. Mandatory Technical Criteria

The Bidder must demonstrate that their proposed equipment meets or exceeds the following Mandatory Technical Evaluation Criteria. For each specification listed, the bidder must include a reference to supporting technical documents included with their bid, such as literature, brochures and/or specifications for their proposed equipment, where it is clearly demonstrated that their proposed equipment meets the specification. If any of the equipment specification is missing from the supporting technical documentation, then the Bidder must provide a narrative to demonstrate how the equipment meets that particular specification.

A. Mandatory Technical Criteria – Laser based Scanner

#	MANDATORY TECHNICAL CRITERION (MTC)	PAGE # OF BID Demonstrating MTC
MTC. 1	Must not require a rigid measuring assembly and be able to move the object during scanning session	
MTC. 2	Must allow real-time visualization of the scanning area on the surface of the object during the data acquisition phase	
MTC. 3	Must be a single unit and operable with one hand	
MTC. 4	Must be equipped with Class II lasers	
MTC. 5	Must have a maximum stand-off distance of 500mm with indication	
MTC. 6	Must have a scanning area of greater than 0.04 m2	
MTC. 7	Must have a measurement rate greater than 400,000 measures/s	
MTC. 8	Must provide portable carrying case compatible with airline carry-on restrictions that can contain the scanner and accessories	

B. Mandatory Technical Criteria - Light based Scanner

#	MANDATORY TECHNICAL CRITERION (MTC)	PAGE # OF BID Demonstrating MTC
MTC. 1	Must not require a rigid measuring assembly and be able to move the object during scanning session	
MTC. 2	Must allow real-time visualization of the scanning area on the surface of the object during the data acquisition phase	
MTC. 3	Must be a single unit and operable with one hand	
MTC. 4	Must have texture and colour acquisition	
MTC. 5	Must have a maximum stand-off distance of 500mm with indication	
MTC. 6	Must have a scanning area of greater than 0.04 m2	
MTC. 7	Must have a measurement rate greater than 400,000 measures/s	
MTC. 8	Must provide portable carrying case compatible with airline carry-on restrictions that can contain the scanner and accessories	

Mandatory Technical Criteria – Software

#	MANDATORY TECHNICAL CRITERION (MTC)	PAGE # OF BID Demonstrating MTC
MTC. 1	Allow the following automatic and manual mesh modifications: clean meshes, fill holes, merge meshes, decimate meshes, and make meshes watertight	
MTC. 2	Allow the acquired data to be exported to a CAD platform in the standard formats of: Initial Graphics Exchange Specification (IGES), Standard for the Exchange of Product (STEP), and Drawing Exchange Format (DXF);	
MTC. 3	Display real-time visualization of forms obtained by the scanner during the data acquisition phase	

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

Any bid which fails to meet the following mandatory financial criteria will be deemed nonresponsive and will receive no further consideration:

- a) Bids must not contain any alteration to Annex "B" - Basis of Payment, other than the addition of the Manufacturer and Model information for the Item and the Bidder's firm unit pricing for all items. Bidders must provide the manufacturer and model information and the firm unit pricing for all items in their bid.
- b) Bids must not contain any condition or qualification placed upon the bid.
- c) Pricing must be firm in Canadian currency, excluding applicable taxes, and must not be indexed or tied to an escalation factor.
- d) Pricing must be provided for all items as listed in the Pricing Basis. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No Bidder will be permitted to add or change a price as part of this confirmation. Any Bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

4.1.2.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivered Duty Paid, Canadian customs duties and excise taxes included.

The Bidder's Firm Unit Price will be multiplied by the quantity to calculate the extended pricing.

The Evaluated Price, used to determine lowest bid, will be the sum of the extended pricing of Annex B.

4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation and meet all mandatory technical evaluation criteria and financial evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated 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 Integrity 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 specified 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 property 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" 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 list at the time of contract award.

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W4948-21ER05/A
Client Ref. No. - N° de réf. du client
W4948-21-ER05

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54255

Buyer ID - Id de l'acheteur
kin519
CCC No./N° CCC - FMS No./N° VME

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

There are no security requirements

PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

7.1 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

7.2 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.

7.2.1 General Conditions

[2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

7.2.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
4003 (2010-08-16), Licensed Software; and
4004 (2013-04-25), Maintenance and Support Services for Licensed Software,

apply to and form part of the Contract.

7.3 Security Requirements

There are no security requirements

7.4 Term of Contract

7.4.1 Period of the Contract

The period of the Contract is from date of Contract to 31 March 2023

7.4.2 Delivery Date

Items in Pricing Basis "A" of Annex "B" Basis of Payment, must be received on or before 31 March 2021.

7.4.2.1 Shipping Instructions – Delivered Duty Paid

Goods must be consigned and delivered to the destination specified in the contract:
Incoterms 2000 "DDP Delivered Duty Paid" CFB Trenton.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Herb Choquette
Title: Supply Team Leader
Public Services and Procurement Canada, Acquisitions Branch
Address: 86 Clarence Street, 2nd Floor, Kingston, Ontario, K7L 1X3
Telephone: (613) 449-8446
E-mail address: Herb.Choquette@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.

7.5.2 Project Authority

The Project Authority for the Contract is: *[Note to Bidders: Canada will insert information at time of Contract award]*

The Project Authority 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 Project Authority; however, the Project 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.

7.5.3 Contractor's Representative *[Note to Bidders: Please fill in required information]*

Name: _____

Title: _____

Address: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

Procurement Business Number: _____

7.6 Payment

7.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "B" for a cost of _____ *[Note to Bidders: Canada will insert the amount at contract award]*. Customs duties are included 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.

7.6.2 Single Payments

SACC Manual clause H1000C (2008-05-12), Single Payments

7.6.3 Taxes - Foreign-based Contractor (if applicable)

SACC Manual clause C2000C (2007-11-30) Taxes - Foreign-based Contractor

7.6.4 Limitation of Price

SACC Manual clause C6000C (2017-08-17) Limitation of Price

7.6.5 Electronic Payment of Invoices – Contract [Note to Bidders: Canada will insert information at time of Contract award]

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only).

7.7 Invoicing Instructions

1. 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.

2. Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

7.8 Certifications and Additional Information

7.8.1 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.

7.9 Applicable Laws

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

7.10 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) the supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16), Licensed Software;
- (d) the supplemental general conditions 4004 (2013-04-25), Maintenance and Support Services for Licensed Software;
- (e) [2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity);
- (f) Annex "A", Requirement;
- (g) Annex "B", Basis of Payment;
- (h) the Contractor's bid dated _____. *[Note to Bidders: Canada will insert information at time of award]*

7.11 SACC Manual Clauses

SACC Manual clause G1005C (2016-01-28), Insurance – No Specific Requirement

SACC Manual clause B1501C (2018-06-21), Electrical Equipment

SACC Manual clause A9062C (2011-05-16), Canadian Forces Site Regulations

SACC Manual clause D0018C (2007-11-30), Delivery and Unloading

7.12 Inspection and Acceptance

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of Annex "A" and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

7.13 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

ANNEX "A", REQUIREMENT

1. System Operation

1.1. Environment

The 3D scanners will be housed within a temperature controlled building when not deployed. Typical day to day use will be within the maintenance shops for Rapid Prototyping tasks, and for training of members for deployed tasks. When deployed, it will typically be used in controlled environments, with limited use in dusty/dirty environments that are not temperature controlled. There is no intent to use the device in extremes of cold/hot or wet environments. Typical environmental operating temperature will be 5 – 40°C @ <90% Humidity non-condensing. Transport of device will likely be in a sealed pelican case or similar.

1.2. Concept of Support

Technical and software support, and repair must be available from the OEM, with both technical and user training available, utilized as needed.

1.3. Key Roles

Operation of the system must be simple for the end user, with setup and operation possible with minimal training. Output product can be passed onto specialists for additional processing. Minor system maintenance and repair will be conducted by Unit Support elements trained and certified in the care and maintenance of the system, while major overhaul and repairs will be conducted by the OEM or Authorized retailer / repair facility.

1.4. Project Interdependencies

No direct interdependency with other projects and equipment, other than the output product of the 3D scanner must be able to be directly 3D printed, and manipulated in CAD based modeling programs, such as SolidWorks, Autodesk Fusion 360, AutoCAD, etc.

2 Scanner requirements

2.1 General Requirement

DND requires a single output device (Laptop) to connect to both a light and laser based scanner, due to the range of different materials that will be required to be scanned, and the complimentary advantages of light and laser based scanners.

2.2 Laser based Scanner

The laser based scanner must meet or exceed all of these specifications:

- (a) Must not require a rigid measuring assembly and be able to move the object during scanning session;
- (b) Must not be limited by size, material, complexity, and/or color/finish when measuring surfaces;
- (c) Must allow real-time visualization of the scanning area on the surface of the object during the data acquisition phase;
- (d) Must allow an optimized mesh to be exported in all standard formats (at a minimum, .stl and .obj), immediately after the acquisition;
- (e) Must allow multiple user-defined/selected resolutions, which can be changed at any time before or after scanning;
- (f) Must automatically eliminate anomalous surface markers during the analysis process;
- (g) Must allow interactive editing of erroneous data or unwanted areas during surface scanning;
- (h) Must automatically create an optimized scan file using data acquisition and conversion software;
- (i) Must be capable of merging surface scans taken across multiple scan sessions;
- (j) Must not require external positioning or tracking devices such as the CMM, multi-articulated arms, laser plotters, GPS, electromagnetic positioning devices, or any other external positioning system for the part or scan head;
- (k) Must be a single unit and operable with one hand;
- (l) Must not weigh more than 1.5 kg without accessories and carrying case;
- (m) Must possess a volume of less than 0.05 m³ without accessories and carrying case;
- (n) Must be equipped with Class II lasers;
- (o) Must have a maximum stand-off distance of 500mm with indication;

-
- (p) Must measure parts with a maximum resolution of at least 0.05 mm (based on the standard ASME B89.4.22);
 - (q) Must measure parts with a maximum volumetric accuracy of at least 0.02 mm + 0.09 mm/m (based on the standard ISO 10360);
 - (r) Must have a scanning area of greater than 0.04 m²;
 - (s) Must have a measurement rate greater than 400,000 measures/s;
 - (t) Must use a USB 3.0 or USB-C port to connect to the computer and include compatible cable of at least 4 metres; and,
 - (u) Must provide portable carrying case compatible with airline carry-on restrictions that can contain the scanner and accessories.

2.3 Light Based Scanner

The light based scanner must meet or exceed all of these specifications:

- (a) Must not require a rigid measuring assembly and be able to move the object during scanning session;
- (b) Must not be limited by size, material, complexity, and/or color/finish when measuring surfaces;
- (c) Must allow real-time visualization of the scanning area on the surface of the object during the data acquisition phase;
- (d) Must allow an optimized mesh to be exported in all standard formats (at a minimum, .stl and .obj), immediately after the acquisition;
- (e) Must allow multiple user-defined/selected resolutions, which can be changed at any time before or after scanning;
- (f) Must automatically eliminate anomalous surface markers during the analysis process;
- (g) Must allow interactive editing of erroneous data or unwanted areas during surface scanning;
- (h) Must automatically create an optimized scan file using data acquisition and conversion software;
- (i) Must be capable of merging surface scans taken across multiple scan sessions;
- (j) Must not require external positioning or tracking devices such as the CMM, multi-articulated arms, laser plotters, GPS, electromagnetic positioning devices, or any other external positioning system for the part or scan head;
- (k) Must be a single unit and operable with one hand;
- (l) Must have texture and colour acquisition;

- (m) Should not weigh more than 1.5 kg without accessories and carrying case;
- (n) Must possess a volume of less than 0.05 m3 without accessories and carrying case;
- (o) Must be equipped with Class II lasers;
- (p) Must have a maximum stand-off distance of 500mm with indication;
- (q) Must measure parts with a maximum resolution of at least 0.05 mm (based on the standard ASME B89.4.22);
- (r) Must measure parts with a maximum volumetric accuracy of at least 0.02 mm + 0.09 mm/m (based on the standard ISO 10360);
- (s) Must have a scanning area of greater than 0.04 m2;
- (t) Must have a measurement rate greater than 400,000 measures/s;
- (u) Must use a USB 3.0 or USB-C port to connect to the computer and include compatible cable of at least 4 metres; and
- (v) Must provide portable carrying case compatible with airline carry-on restrictions that can contain the scanner and accessories.

2.4 The 3D-scan data acquisition and conversion software

The 3D-scan data acquisition and conversion software must meet or exceed the following specifications:

- (a) Allow the following automatic and manual mesh modifications: clean meshes, fill holes, merge meshes, decimate meshes, and make meshes watertight;
- (b) Allow an alignment of the scanned data in order to use the data/entities in a way suited for the reverse engineering projects;
- (c) Allow the generation of non-uniform rational bases spline (NURBS) surfaces and the extraction of the mesh entities to automatically characterize freeform surfaces;
- (d) Allow the acquired data to be exported to a CAD platform (Autodesk Inventor; SolidWorks, etc.) using the following standard formats: Initial Graphics Exchange Specification (IGES), Standard for the Exchange of Product (STEP), and Drawing Exchange Format (DXF);
- (e) Display real-time visualization of forms obtained by the scanner during the data acquisition phase; and
- (f) Be able to merge the surface analyses taken in separate scanning sessions.

Laptop Computer

- a. The Laptop Computer must meet or exceed the following specifications:
- b. Must have a minimum screen size of 17 inches diagonally;
- c. Must have a processing speed of at least 2.7 GHZ.
- d. Must have a minimum of 64 Gb RAM.
- e. Must have minimum 512 Gb SSD storage.
- f. Must have a Windows 10 based operating system;
- g. Must be compatible with all of the included 3D-scan data acquisition and conversion software;

3 Maintainability

Level 1 Maintenance tasks will be conducted by OEM trained DND Technicians.

Level 2 and 3 Maintenance must be conducted by OEM or authorized service providers. Replacement parts and accessories should be available from the OEM for the expected lifecycle of the 3D Scanner system.

4 Personnel and Training Requirements

The Contractor must provide one (1) training session for up to 3 people within 30 days delivery and acceptance of the goods, and one additional training session for up to three (3) people within 12 months delivery and acceptance of the goods. Training is to include both operator, and operator maintenance training.

ANNEX “B”, BASIS OF PAYMENT

Note to Bidders: Bidders must provide manufacturer and model information and firm unit price for the items in their bid. This text will not be included in the resulting Contract.

Pricing:

Prices herein are firm and all-inclusive in Canadian Dollars, Intercoms 2000, Delivered Duty Paid (CFB Trenton, Ontario), including Canadian customs duties and excise taxes, excluding HST. HST is not included in the pricing below and will be show as a separate item on all invoices.

Pricing Periods:

Year 1: 1 January 2021 to 31 March 2022
Year 2: 1 April 2022 to 31 March 2023

Travel and Living Expenses

The Contractor will be reimbursed for the authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for overhead or profit, in accordance with the meal, accommodation, and private vehicle allowances specified in Appendices B, C and D of the [National Joint Council Travel Directive](#), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". Canada will not pay the Contractor any incidental expense allowance for authorized travel.

While the Directive's standard for Accommodations is for single-occupancy rooms, the Contractor may, at their discretion, choose to use double-occupancy rooms for its employees. Reimbursement for accommodations will be on a per-room basis.

All travel must have the prior authorization of the Project Authority. All payments are subject to government audit.

Pricing Basis “A”, for delivery by March 31, 2021

Item #	Description	Quantity	Firm Unit Price
1	Supply 3D Scanner light scanner, laser scanner, laptop computer and the software , in accordance with Annex “A” – Requirement. Bidders must include Annual Software support for one (1) year in accordance with Supplemental General Conditions 4004 (2013-04-25), Maintenance and Support Services for Licensed Software. Manufacturer: _____ Model: _____	2	\$ _____/each
2	Training session for up to 3 people. Training is to include both operator, and operator maintenance training	1	\$ _____/each

PRICING BASIS "B", OPTIONAL GOODS AND SERVICES

These goods and services must be authorized by a Contract Amendment from the Contract Authority.

Item #	Description	Quantity	Firm Unit Price Year 1	Firm Unit Price Year 2
1	3D Scanner, in accordance with Annex "A" – Requirement, Bidders must include Annual Software support for one (1) year in accordance with Supplemental General Conditions 4004 (2013-04-25), Maintenance and Support Services for Licensed Software. Manufacturer: _____ _____ Model: _____	2	\$ _____/each	\$ _____/each
2	Training session for up to 3 people. Training is to include both operator, and operator maintenance training	2	\$ _____/each	\$ _____/each

Solicitation No. - N° de l'invitation
W4948-21ER05/A
Client Ref. No. - N° de réf. du client
W4948-21-ER05

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54255

Buyer ID - Id de l'acheteur
kin519
CCC No./N° CCC - FMS No./N° VME

ANNEX "C" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must complete the information requested below, to identify which electronic payment instruments are accepted for the payment of invoices.

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only).

ANNEX "D", ADDITIONAL CERTIFICATION INFORMATION

1. Board of Directors

In accordance with the [Ineligibility and Suspension Policy](#), Section 17, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name/Position - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Suppliers are required to have a Procurement Business Number (PBN) before Contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.