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

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government Services Canada/Réception des soumissions Travaux publics et Services gouvernementaux Canada
Pacific Region

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

IMPORTANT NOTICE
Faxed and hard copy bids (submitted in person or via mail/courier) will not be accepted for the subject bid solicitation.

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific Region
401 - 1230 Government Street
Victoria, B. C.
V8W 3X4

Title - Sujet 3D Metal Printer System Metal Powder Bed Fusion 3D Printer	
Solicitation No. - N° de l'invitation W3555-227019/A	**Amendment No. - N° modif.** 002
Client Reference No. - N° de référence du client W3555-227019	**Date** 2021-10-08
GETS Reference No. - N° de référence de SEAG PW-$VIC-246-8285	
File No. - N° de dossier VIC-1-44057 (246)	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin
at - à 02:00 PM Pacific Daylight Saving Time PDT
on - le 2021-11-05 Heure Avancée du Pacifique HAP

F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes
Plant-Usine: ☐ **Destination:** ☐ **Other-Autre:** ☑

Address Enquiries to: - Adresser toutes questions à: Kobenter, Hélène	**Buyer Id - Id de l'acheteur** vic246
Telephone No. - N° de téléphone (250) 508-7491 ( )	**FAX No. - N° de FAX** ( ) -

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Telephone No. - N° de téléphone
Facsimile No. - N° de télécopieur

Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)
Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)

Signature **Date**

Canada

Amd 002 issued to publish responses to Bidder enquiries and amendments to the solicitation as follows:

Bidder Enquiries:

Q1: **Re Mandatory Technical Criterion 6.3 at Annex A** reads as follows: "The system must include a dedicated air compressor capable of providing the necessary air flow and pressure of conditioned air required to achieve system performance in all respects as specified herein."

Can this criterion be revised to indicate that if the system does not have a dedicated air compressor, the pressurized air supply requirements must be provided to ensure the facility provide the conditioned air to the machine.?

Response to Q1: *Criterion 6.3 has been deleted. Refer to revised Annex A*

Q2: Re Mandatory Technical Criterion 6.4 at Annex A reads as follows: "The system must include an integrated air dryer capable of achieving a quality class 1.1.1 of standard ISO 8571-1(2010); to ensure the air is dust and oil-free with a dew point of -70 degrees Celsius"

Can this criterion be revised to allow for the following alternative: or 2) quality class 1.4.1 of standard ISO 8573-1(2010); to ensure the air is just and oil-free with a dew point between -30 and -60 degrees Celsius.

Response to Q2: *Criterion 6.4 has been revised. Refer to revised Annex A*

Q3: Re Mandatory Technical Criterion 2.5 at Annex A reads as follows: "The system must print using at least two fiber lasers simultaneously that overlap to be faster than a single fiber laser"

Our solution is compliant with this requirement, however what is not clear is the end user required build rate? We don't see that keep performance indicator (KPI) in the RFP. The units of that KPI are cm³/h. This will address requirements 2.5 & 2.6. Do you have a build rate requirement? Or in other words what is the required printing speed of the printer?

Response to Q3: *Item 3.4 of the RFP specifies "The system must be capable of a maximum building rate of at least 85 cubic centimeters per hour."*

Q4: Re Mandatory Technical Criterion 2.6 at Annex A reads as follows: "Powder recoating must be bi-directional to reduce the number of passes by a half when compared to single pass printers."

Powder recoating does contribute to overall productivity but the important metric is Build Rate in cm³/h . The higher the KPI, the faster the machine. The powder recoating process does not need to be bi-directional and faster build times are accomplished with single directional powder recoating passes.

Response to Q4: *Acknowledged. Item 2.6 has been removed.*

Q5: Re Mandatory Technical Criterion 5.3 at Annex A reads as follows: "Not one individual component in the system can exceed 2,600 kilograms when fully assembled and loaded with materials"

Why is there a weight restriction?

Response to Q5: *The system components are limited in weight for transportation, handling, and installation once onsite and under DND possession. Additionally the requirement is necessary to limit the size and nature of the system when considered in conjunction with the other requirements for overall dimensions and weights identified under Item 5.0.*

Amendments to the requirement:

UNDER PART 1 – Section 1.2.1 of Summary
Delete as shown.
Insert:

1.2.1 The Department of National Defence (DND) requires supply, delivery, installation, start-up, commissioning, and on-site training and warranty services for a metal power bed fusion 3D printing system for use in the Machining Work Centre at Fleet Maintenance Facility CAPE BRETON, Victoria BC V9A 7N2 Canada in accordance with the requirement detailed herein.

While delivery of the system is preferred by no later than 30-Jun-2022, delivery must be completed no earlier than 01-Apr-2022, and no later than 30-Sep-2022 (MANDATORY).

The installation, start-up, commissioning and training services should be completed within 8 weeks from receipt of notification that the site is ready, or by no later than 31-Mar-2023, whichever comes first.

The requirement includes the option to purchase one (1) additional system for Fleet Maintenance Facility CAPE SCOTT, Halifax NS B3J 3Y5 Canada, as well as options for additional on-site training and extended warranty services that may be exercised within 12 months after contract award. Refer to Annex B – Basis of Payment.

Bidders must submit firm pricing for all requested goods and services (including optional items) to be given further consideration in the process.

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

UNDER ANNEX "A" – REQUIREMENT
Delete as shown.
Insert:

Metal Powder Bed Fusion 3D Printer

Statement of Requirements (SOR)

Overview:

The Department of National Defence (DND) requires supply, delivery, installation, start-up, commissioning, and training for a metal powder bed fusion 3D printing system for use in the Machining Work Centre at Fleet Maintenance Facility CAPE BRETON, a DND establishment responsible for Engineering, Maintenance, and Repair of the Pacific Naval Fleet for the Royal Canadian Navy (RCN). The system will be used in applications to produce homogenous metal components out of Stainless Steels, Tool Steels, Aluminum Alloys, Nickel-based Alloys, and Titanium Alloys at a minimum; with high precision at high build rates from 3D CAD files.

Mandatory Technical Criteria - Important Instructions

a. Bidders must demonstrate their compliance with all mandatory technical evaluation criteria listed below by providing substantial information describing completely and in detail how each mandatory technical criterion is met.

b. Bidders must provide with their technical bid, a document indicating clearly where the substantial information for each of the sections identified below can be found.

c. Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

d. Answers stating "compliance", "comply", "yes", or other types of positive responses without substantive documentation or literature to justify compliance will be deemed as non-compliant and no further evaluation of the bid will be performed.

e. Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
1.0	**Unit Requirements:**		
1.1	Supplier must provide the following unit information: Printer Make: Printer Model:		
2.0	**General Operating Requirements:**		
2.1	The system must use Class-1 fiber laser technologies to melt recoated metal powders.		
2.2	The system must be closed-loop for inert atmosphere powder handling.		
2.3	The system must be fully enclosed for printing operations.		
2.4	The system must withstand rigours of the intended applications and environment and must be capable of intermittent operation over an extended period of time with minimal maintenance and upkeep.		
2.5	The system must print using at least two fiber lasers simultaneously that overlap to be faster than a single fiber laser.		
2.6	**DELETED**		
2.7	The system must be designed so the entire process takes place under an inert gas atmosphere for safe operation ensuring the oxygen content is always equal to or below 100 ppm (0.01%).		
2.8	The system must handle and transfer the powder under an inert atmosphere to maintain powder quality and operator safety.		
3.0	**Performance Requirements:**		
3.1	The system must print a part of at least 245 mm in length.		
3.2	The system must print a part of at least 245 mm in width.		
3.3	The system must print a part of at least 350 mm in height less the thickness of the substrate plate.		
3.4	The system must be capable of a maximum building rate of at least 85 cubic centimeters per hour.		
3.5	The system must be capable of producing a fine layer thickness down to 20 micron for a powder recoating pass.		
3.6	The system must be capable of producing a course layer thickness no greater than 100 micron for a powder recoating pass.		
3.7	The laser beam must be able to focus down to at least 80 micron in diameter.		
3.8	The laser beam focus must not exceed 500 micron in diameter.		
3.9	The system must be able to achieving a scan speed greater than 4 meters per second.		
3.10	The power of each fiber laser must be in the 400 to 500 watt range.		
4.0	**General Electrical Services:**		
4.1	The entire system must operate off of an electrical panel rated for 480 Volts / 80 Ampere / 3 Phase / 4 Wire / 60 Hertz.		
4.2	If alternate power is required, the supplier must provide an appropriately sized transformer.		

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
4.3	Unit must be in compliance with the Standard Acquisition Clauses and Conditions (SACC) Manual, Section 5.B.B1501C which states: "All electrical equipment supplied under the Contract 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."		
4.4	Contractor must demonstrate conformance of the electrical certification, as per the above item, prior to shipping of the unit. A picture of the tally plate with appropriate certification mark/sticker sent to the contract's Technical Authority is adequate.		
5.0	**Overall Dimensions & Weights:**		
5.1	Not one individual component in the system, when fully assembled, can exceed 2.8 meters in length, 1.9 meters in depth, and 2.8 meters in height.		
5.2	Individual components in the system, prior to full assembly, must fit through a standard building double door measuring 2.03 meters in height and 1.84 meters in width.		
5.3	Not one individual component in the system can exceed 2,600 kilograms when fully assembled and loaded with materials.		
6.0	**Inert Gas & Compressed Air Requirements:**		
6.1	The printing process must consume no more than 400 liters per minute of argon or nitrogen gas.		
6.2	The purging process must consume no more than 1,200 liters per minute of argon or nitrogen gas.		
6.3	**DELETED**		
6.4	**REVISED** The system must include an integrated air dryer capable of achieving a quality class 1.1.1 of standard ISO 8571-1(2010); to ensure the air is dust and oil-free with a dew point of -70 degrees Celsius ***or*** *2) quality class 1.4.1 of standard ISO 8573-1(2010); to ensure the air is dust and oil-free with a dew point between -30 and -60 degrees Celsius.*		
7.0	**Powder Sieve Requirements:**		
7.1	The system must have a powder sieve system, that is manually and continuously adjustable using ultrasonic transmitters, to classify overflow powder for reuse or waste and to introduce new powder.		
7.2	The powder sieve system must operate under an inert gas environment and display the oxygen content accurately.		
7.3	The system must include any additional sieving components, such as powder guides, to change any of the applicable powders economically.		
8.0	**Material Requirements:**		
8.1	The system must be able to process, at a minimum, Stainless Steels, Tool Steels, Aluminum Alloys, Nickel-based Alloys, and Titanium Alloys; with all powdered metal materials sourced, approved, and qualified to system standards established with manufacturers.		

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
8.2	The system must include a device(s) to measure the moisture level of powdered metal materials.		
8.3	The system must include a device(s) to ergonomically assist operators with loading and unloading vessels of powdered metal material.		
8.4	The system must include additional components to simplify the change of powdered metal materials, such as dedicated changeover kits and vessels for each type of powdered metal material.		
8.5	The system must be supplied with select powdered metal materials including a common Stainless Steel, Tool Steel, Aluminum Alloy, Nickel-based Alloy, and Titanium Alloy and all associated equipment and consumables necessary to print each material. At least 20 kilograms of powdered metal must be provided for each material. For consumables, such as substrate plates, at least three (3) must be supplied for each material.		
9.0	**Control Requirements:**		
9.1	The system must include the integration of manufacture' validated and updated build/printing profiles established for the supplied machine and materials, as well as user parameter validation, for application and storage throughout the life of the system.		
9.2	The system must have a laser control system to detect layer defects for automatic or manual correction through operator and/or software intervention.		
9.3	The system must include, at a minimum, adequate sensors for process gas flow, oxygen concentration, temperature, and dew point to maintain optimal control of process conditions and ensure safe operation.		
9.4	The system must employ solutions such as leak tight quick-disconnects or double-valves for all interfaces between the machine and the powdered metal handling system to prevent powdered metal contamination and/or oxidation.		
9.5	The electrical and control system components must be installed in a self-contained switch cabinet, separated from the gas and water supply, with safety mechanism(s) to ensure safe access.		
9.6	The system must have a network Ethernet connection and/or USB port for software transfers and updates.		
9.7	The system must have an integrated industrial-grade computer with display and user interface device, such as touchscreen or keyboard, and a sustainable Windows operating system such as Windows 7 or newer.		
9.8	The machine control software must save and display, at a minimum, the filter status, oxygen content, temperature, and remaining build time.		
10.0	**Filtration Requirements:**		
10.1	The system must include process gas filtration to remove contaminates and maintain optimal process conditions.		
10.2	The system filters must interface with the machine using solutions such as leak tight quick-disconnects or double-valves for safe filter changes.		
10.3	The system must include a means to replace the filter inert gas with water to eliminate the risk of an oxygen reactions.		
10.4	The system must be designed so that filter changes can occur while the build process is paused.		

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
10.5	The system must include a device(s) to ergonomically assist operators with the changing of filter canisters.		
11.0	**Build Chamber Requirements:**		
11.1	The system chamber must be accessible for loading, removal, and cleaning operations.		
11.2	The system chamber must have a large viewing window made of laser safety glass suitable for all applications specified herein.		
11.3	The system chamber must have integrated LED lighting.		
11.4	The system chamber must have a spare feedthrough port to facilitate the future addition of instrumentation used for measurement, monitoring, and control of the printing process.		
11.5	The system chamber must include integrated gas-tight gloves and an overflow chute that will allow the operator to safety clean build parts and transfer used metal powder under an inert gas atmosphere.		
11.6	The recoater system must have replaceable leveling blades for wear and precision.		
11.7	The system must include integrated build platforms that can achieve pre-heating temperatures necessary for all applicable powdered metal materials, including titanium.		
11.8	The system must include integrated build platforms that will allow the system to build with less material when required.		
12.0	**Software Requirements:**		
12.1	The system software must allow the users to manually control all machine functions before and during the build process; including the ability to intervene and pause the build.		
12.2	The system must include software that can do the following;		
12.2.1	Visualization, measurement, and adjustment in geometry of STL files;		
12.2.2	Repair STL files automatically and manually;		
12.2.3	Edit STL files to cut models, make holes, extrude surfaces, hollowing, moving, Boolean operations, triangle reductions, surface smoothing, and attaching labels;		
12.2.4	Positioning of components in the building space, automatic nesting, collision detection, Z-axis compensation, and beam diameter compensation;		
12.2.5	Generate support and anchor structures with the substrate plate;		
12.2.6	User interface with guided workflow to set-up complex parts for translation of model file formats, such as .stl and .step, into file formats required by the printer;		
12.2.7	Calculate layer and hatching data and material-specific process parameters to generate specific laser scan vectors; and		
12.2.8	Interface with native Computer-Aided Design (CAD) file formats such as SolidWorks at a minimum.		
13.0	**Cooling Requirements:**		
13.1	The system must include a water-to-air cooling system to adequately remove exhaust heat from the process for all applications specified herein.		
14.0	**Cleaning Requirements:**		

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
14.1	The system must include a portable vacuum cleaner intended for the safe handling of both non-reactive materials, like steel, and reactive materials like titanium and aluminum.		
15.0	**Factory Acceptance Testing (FAT):**		
15.1	A printed specimen, made of stainless steel and sized to the build limits of the system, must be produced along with an acceptance report outlining specific reference point measurements that demonstrate the performance characteristics of geometry, accuracy, surface quality, and density at a minimum.		
16.0	**Start-up Services, Commissioning, and Training Requirements:**		
16.1	All start-up services, commissioning, and training must take place within a normal work week being, Monday through Friday, 0800 PST through to 1600 PST, excluding federally observed statutory holidays.		
16.2	The supplier must provide all materials and associated equipment necessary to facilitate the onsite start-up, commissioning, and training specified herein.		
16.3	**Start-up Services:**		
16.3.1	The supplier must provide a qualified service technician to perform start-up services.		
16.3.2	Supplier must review all pre-installation work including connections to electrical, plumbing, pneumatic, and other services.		
16.3.3	Supplier must assemble, level, and align all components, equipment, and systems.		
16.3.4	Supplier must make all connections between the system and ancillary systems.		
16.3.5	Supplier must perform initial start-up of the system.		
16.3.6	Supplier must perform any corrective measures to commission the system for full operation.		
16.4	**Commissioning:**		
16.4.1	The supplier must facilitate and demonstrate onsite how the entire system supplied has achieved all the mandatory specifications herein, and produce an acceptance report to finalize the commissioning event.		
16.5	**Maintenance Training:**		
16.5.1	Supplier must provide at least one (1) 7.5 hour day of onsite maintenance familiarization following system start-up and final commissioning.		
16.5.2	The training for system maintenance must accommodate at least three (3) persons at one time.		
16.5.3	Training from the supplier must be delivered within 2 weeks of final commissioning.		
16.6	**Operator Training:**		
16.6.1	Supplier must provide at least one (1) 7.5 hour day of onsite operator familiarization following the system start-up and final commissioning.		
16.6.2	The training program for system operators must accommodate up to at least six (6) persons at one time.		
16.6.3	Training from the supplier must be delivered within 2 weeks of final commissioning.		

Item	Minimum Mandatory Performance Specifications MANDATORY TECHNICAL EVALUATION CRITERIA	MET (Y/N)	Bidder must state exactly where in its bid, by ref. or page #, that supporting information can be found as applicable.
16.7	**Software Training:**		
16.7.1	Supplier must provide at least two (2) 7.5 hour days of extensive software training.		
16.7.1.1	The extensive training program for the software must accommodate at least six (6) persons at one time.		
16.7.1.2	Training from the supplier must be delivered within 4 weeks of operator training.		
17.0	**Identification:**		
17.1	All parts, components and assemblies must have their respective original equipment manufacturers name and part number clearly identified on them and in the installation, operation and maintenance manuals. All electrical and instrumentation components must be identified accordingly.		
18.0	**Manuals:**		
18.1	All information contained in the manual(s) must be in the English language and reflect the supplied unit and its components in the "as built" configuration at a minimum.		
18.2	All instructions and illustrations necessary for proper operation of the equipment must be provided in English.		
18.3	Manuals must be provided in an acceptable electronic format, such as pdf, and include all applicable installation instructions, drawings, maintenance schedules, Material Safety Data Sheets (MSDS), spare parts list, and schematics; including electrical, hydraulic, and instrumentation at a minimum.		
19.0	**Delivery:**		
19.1	To ensure DND has appropriate equipment and personnel available to offload the shipment upon delivery, the supplier must contact the DND Technical Authority (TA), to coordinate delivery and provide shipping weights and dimensions, within two (2) weeks of the shipment arriving at any DND destination.		
19.2	All deliveries to occur within working hours in a normal work week being, Monday through Friday, 0800 PST through to 1600 PST, excluding federally observed statutory holidays.		
19.3	All items in the shipment (i.e. machine components, crates, shipping containers, pallets, etc.) must have safe crane lifting points and/or forklift pockets identified. All items must be able to be offloaded with either a crane or a forklift with standard size forks. Items to be lifted by crane must not exceed 55,000 lbs. Items to be lifted by forklift must not exceed 8,000 lbs.		
19.4	Any transport bars that are required for rigging services of the supplied unit must be included with delivery.		

UNDER ANNEX "B" - BASIS OF PAYMENT
Delete as shown.
Insert:

ANNEX "B" - BASIS OF PAYMENT

Mandatory Financial Criteria - Important Instructions

a. Bidders must complete and submit the financial evaluation table provided in this Annex with their bid.

b. Bidders must submit firm all-inclusive lot prices for all mandatory items (B.1 and B.2) and optional items (B.3 to B.8) listed in the financial evaluation table below for their financial bid to be given further consideration in the process.

c. For products and/or services offered free of charge, Bidders are to specify a price of $0.00 or "Not Applicable" ("N/A"), or the product or service will be deemed not available and render the bid non-responsive.

d. Pricing must be in Canadian dollars, Applicable Taxes excluded, Delivered Duty Paid (DDP) to the delivery point specified for each item, shipping charges, Canadian customs duties, and excise taxes included.

e. Pricing must include firm and inclusive of all direct and indirect expenses incurred in performing the requirement including but not limited to all labour, fringe benefits, overhead, supervision, tools, equipment, materials, parts, environmental fees, manuals, travel time, travel and living expenses, transportation costs, reports, general and administrative costs, profit required to do the work, all related duties and other costs paid by the Contractor such as additional surcharges, environmental and transportation fees and charges.

f. Pricing must also include removal and recycling/disposal of all packaging materials and waste in accordance with any applicable laws.

g. Failure to comply with any of the instructions provided in this Annex will render the bid non-responsive.

h. Canada is not obligated to purchase any of the optional items. All Optional goods and services will be purchased through contract amendment within 12 months after contract award in accordance with section 7.1 of the Contract.

No further charges will be allowed

Item	Description	Quantity	Unit of Issue	All-Inclusive Firm Price CAD (GST/HST extra)
B.1	Firm Requirement for FMF Cape Breton To supply and deliver one (1) Metal Powder Bed Fusion 3D Printer in accordance with the requirement detailed at Annex “A”. *Includes Factory Acceptance Test* Manufacturer : _____ Model: _____ DDP Destination Delivery Point: Fleet Maintenance Facility CAPE BRETON Canadian Forces Base Esquimalt Building 250 Dockyard, Door 33 1600 Esquimalt Road Victoria, British Columbia V9A 7N2 Canada **Delivery Date:** **REVISED** While delivery is preferred by no later than 30-Jun-2022, delivery must be completed no earlier than 01-Apr-2022 and by no later than 30-Sep-2022 (MANDATORY) The best delivery offered is _____ weeks (***Bidder must specify***) from date of receipt of a contract award, or no later than 30-Sep-2022, whichever comes first.	1	LOT	$
B.2	Firm Requirement for FMF Cape Breton To install, start-up, commission, and provide the on-site training services for Item B.1 in accordance with the requirement detailed at Annex “A”. DDP Destination Delivery Point: Same as Item B.1 Lead time: **REVISED** Within 8 weeks from receipt of notification that the site is ready, or no later than 31-Mar-2023, whichever comes first	1	LOT	$

Item	Description	Quantity	Unit of Issue	All-Inclusive Firm Price CAD (GST/HST extra)
B.3	Optional Unit for FMF CAPE SCOTT To supply and deliver one (1) Metal Powder Bed Fusion 3D Printer in accordance with the requirement detailed at Annex "A". *Includes Factory Acceptance Test* DDP Destination Delivery Point: Fleet Maintenance Facility CAPE SCOTT Canadian Forces Base Halifax Building D200 - Door 13 2365 Provo Wallis Street Halifax, Nova Scotia B3J 3Y5 Canada **Lead time:** **REVISED** Within _____ weeks ***(Bidder must specify)*** after receipt of a contract award amendment but no later than 30-Sep-2023	1	LOT	$
B.4	Optional Requirement for FMF Cape Scott To install, start-up, commission, and provide the on-site training services for Item B.3 in accordance with the requirement detailed at Annex "A". DDP Destination Delivery Point: Same as Item B.3 Lead time: **REVISED** Within 8 weeks from receipt of notification that the site is ready for onsite services, but no later than 31-Mar-2024	1	LOT	$
B.5	Optional Additional 24 Month on-site Warranty for FMF CAPE BRETON DDP Delivery Point: Same as Item B.1 Option to purchase an additional 24 months of parts, labour, travel and living expenses warranty in addition to, and in accordance with the same terms and conditions of the initial 12-month warranty requirements detailed in section 7.2 of the Contract	1	LOT	$

Item	Description	Quantity	Unit of Issue	All-Inclusive Firm Price CAD (GST/HST extra)
B.6	Optional Additional 24 Month on-site Warranty for FMF CAPE SCOTT DDP Delivery Point: Same as Item B.3 Option to purchase up to an additional 24 months of parts, labour, travel and living expenses warranty in addition to, and in accordance with the same terms and conditions of the initial 12-month warranty detailed in section 7.2 of the Contract	1	LOT	$
B.7	Optional Additional on-site Training for FMF CAPE BRETON DDP Delivery Point: Same as Item B.1 Option to purchase up to an additional two (2) days of operator and software training. Delivery Date: As mutually agreed upon between FMF CB and the Contractor.	up to 2	Day	2 x $_____/day B.7 = $_____
B.8	Optional Additional on-site Training for FMF CAPE SCOTT DDP Delivery Point: Same as Item B.3 Option to purchase up to an additional two (2) days of operator and software training. Delivery Data: As mutually agreed upon between FMF CS and the Contractor	up to 2	Day	2 x $_____/day B.8 = $_____
	EVALUATED PRICE DDP Destination **= B.1 + B.2 + B.3 + B.4 + B.5 + B.6 + B.7 + B.8 =**			**$**

-- ALL OTHER TERMS OF THE SOLICITATION REMAIN THE SAME--