

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver, BC V6Z 0B9  
Bid Fax: (604) 775-7526

**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**

<b>Title - Sujet</b> 3D Printer	
<b>Solicitation No. - N° de l'invitation</b> 31019-141111/A	<b>Date</b> 2015-01-27
<b>Client Reference No. - N° de référence du client</b> 31019-141111	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$VAN-580-7438	
<b>File No. - N° de dossier</b> VAN-4-37285 (580)	<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 2015-03-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<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> Navarro, Maria	<b>Buyer Id - Id de l'acheteur</b> van580
<b>Telephone No. - N° de téléphone</b> (604) 775-9911 ( )	<b>FAX No. - N° de FAX</b> (604) 775-7526
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> NATIONAL RESEARCH COUNCIL CANADA 4250 WESTBROOK MALL VANCOUVER British Columbia V6T1W5 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**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  
219 - 800 Burrard Street  
800, rue Burrard, pièce 219  
Vancouver, BC V6Z 0B9

<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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VAN-4-37285

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**Solicitation No. 31019-141111/A**

**Title: 3-D Printer**

**Please see attached**

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with this bid solicitation.

### **1.2 Requirement**

The National Research Council Canada requires a 3-Dimensional Printer for the reproducible and economic deposition of catalytic layers on different supports. The technical specifications are specified under Annex A.

### **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 Trade Agreements**

This requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Agreement on Internal Trade (AIT).

## **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>) 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 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003 (2014-09-25), 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 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 15 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 British Columbia.

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 provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

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) (<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 8.5 x 11 inch (216 mm x 279 mm) 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 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**

Bidders must submit their financial bid in accordance with the Basis of Payment, Annex B. The total amount of Applicable Taxes must be shown separately.

### **3.1.1 Exchange Rate Fluctuation**

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

## **Section III: Certifications**

Bidders must submit the certifications 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**

Bids will be evaluated in accordance with the Technical Bid criteria detailed in Form A - Substantiation of Technical Compliance. Bids will be assessed to ensure compliance with all of the requirements of this solicitation as described at Requirement.

##### **4.1.2 Financial Evaluation**

*SACC Manual* Clause [A0220T](#) (2014-06-26), Evaluation of Price

#### **4.2 Basis of Selection – Mandatory Technical Criteria**

*SACC Manual* Clause A0031T (2010-08-16), Basis of Selection – Mandatory Technical Criteria

## **PART 5 - CERTIFICATIONS**

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

### **5.1 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.

#### **5.1.1 Integrity Provisions - Associated Information**

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions [2003](#). The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### **5.1.2 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 ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

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.

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

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

### **6.1 Security Requirements**

There is no security requirement applicable to this Contract.

### **6.2 Requirement**

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

### **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>) issued by Public Works and Government Services Canada.

#### **6.3.1 General Conditions**

[2010A](#) (2014-11-27), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **6.3.2 Supplemental General Conditions**

4001 (2013-01-28) 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.

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## **6.4 Term of Contract**

### **6.4.1 Delivery Date**

All the deliverables must be received on or before 31 March 2015.

## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Maria Navarro  
Title: Supply Specialist  
Public Works and Government Services Canada, Pacific Region  
Acquisitions Branch  
Directorate: Imaging Product Management Group  
Address: 219-800 Burrard Street, Vancouver, BC V6Z 0B9

Telephone: 604.775.9911  
Facsimile: 604.775-7526  
E-mail address: maria.navarro@pwgsc.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 Technical Authority**

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

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

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.

### **6.5.3 Contractor's Representative**

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Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_

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

## 6.6 Payment

### 6.6.1 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 the Annex B for a cost of \$ \_\_\_\_\_ (**amount to be inserted 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.

### 6.6.2 Limitation of Price

SACC *Manual* clause [C6000C](#) (2011-05-16) Limitation of Price

### 6.6.3 Single Payment

SACC *Manual* clause [H1000C](#) (2008-05-12) Single Payment

## 6.7 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.

## 6.8 Certifications

### 6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

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#### **6.9 Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_ (***insert province or territory***).

#### **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) the supplemental general conditions 4001 (2013-01-28) Hardware, Purchase , Lease and Maintenance; 4003 (2010-08-16) Licensed Software; and 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
- (c) the general conditions 2010A (2014-11-27), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment; and
- (g) the Contractor's bid dated \_\_\_\_\_ (***insert date***).

#### **6.11 SACC Manual Clauses**

A9068C (2010-01-11), Government Site Regulations  
B1501 (2006-06-16), Electrical Goods  
G1005 (2008-05-12), Insurance

## ANNEX A - REQUIREMENT

### 1. Objective

The National Research Council Canada (NRC) has a requirement for the supply and delivery of a 3-Dimensional printer for their office in Vancouver, BC. The printer is required for catalyst deposition on electrode supports.

### 2. Technical Requirements

The printer must meet the following Mandatory Criteria:

Line no.	Mandatory Criteria
1	Deposition of fluidic materials must have a minimum drop size range of 1 to 10 picolitres.
2	Substrates must be secured on a vacuum platen and must heat up to at minimum of 60°C.
3	The printer must have a fiducial camera which must allow inspection and image capture of patterns and drops.
4	Printed patterns must be created and printed on substrates in various sizes: minimum of 0.787×0.787 inches up to 8×11×0.04 inches.
5	The printer head must contain a minimum of 16 nozzles.
6	Nozzles must be spaced 200 to 300 microns apart and must have a nozzle diameter of 20 (+/- 5) microns.
7	The printer head must spray inks with a particle size of 150 to 250 nanometres and a viscosity of 10 to 12 centipoises.
8	The printer must use a disposable piezoelectric inkjet cartridge with a minimum cartridge volume of 1.5 ml.
9	The printer must have the ability to print a layer 5 cm <sup>2</sup> with 625×2000 pixel resolution.
10	The printer must have a waveform editor and a drop-watch camera system for the manipulation of the electronic pulses to the piezo jetting device, for optimization of drop characteristics.
11	The printer must have a pattern editor program for a variety of patterns, and include a perpetual license.
12	The printer must be Windows 7 compliant.
13	The printer must have a power requirement of 110V.

**ANNEX B - BASIS OF PAYMENT**

All pricing is Free on Board (FOB) destination inclusive of all provincial environmental recycling fees.

**B.1 3-Dimensional Printer**

Line No.	Description	OEM Brand Name & Part Number	Qty	Unit Price	Extended Price
1.	Firm, all-inclusive price for the supply and delivery of the printer as described in Annex A, Requirement.		1	\$ _____	\$ _____

**B.2 Imaging Consumables**

The Bidder must list out all consumables included and required for the offered device to meet the requirements, as detailed in Annex A.

Imaging consumables are defined as any items that are used up (e.g. toners, developers, ink), filled up (e.g. waste toner containers), or worn down (e.g. drums, fusers, belts) during the printing, copying or scanning processes and replaced on routine basis.

Line No.	Description	OEM Brand Name & Part Number	Period 1 Contract Award to 31 March 2015	Period 2 1 April 2015 to 31 March 2016	Period 3 1 April 2016 to 31 March 2017
1.			\$ _____	\$ _____	\$ _____
2.			\$ _____	\$ _____	\$ _____
3.			\$ _____	\$ _____	\$ _____
4.			\$ _____	\$ _____	\$ _____
5.			\$ _____	\$ _____	\$ _____

The provision of imaging consumables will not form part of this Contract; however the Bidder agrees that the imaging consumables unit prices stated below will be available for imaging consumables purchases made by NRC for 3 periods from the date of Contract Award. The consumables will be available by placing orders directly with:

Company Name	
Company Address	
Contact Name	
Telephone Number	
E-mail Address	

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## ANNEX C - COMPLIANCE AND COMPATIBILITY TESTING

The Bidder offering the lowest priced technically compliant products must supply the printer ("test device") in the configuration(s) required for a compatibility sub-test, prior to the award of Contract, to determine whether the printer will meet NRC's compatibility requirements.

To complete these tests, the Bidder must deliver and set up (at any location designated by Canada, as long as it is within a radius of 100 km of any city or town with a population of at least 30,000, except CLCA areas), within 2 working days, up to two (2) of the product(s) for testing.

The products delivered for testing must:

- a) be configured and identical to the equipment proposed in the RFP and be in accordance with the Mandatory Technical Specifications;
- b) be loaded with all necessary drivers; and
- c) be compatible with the specific hardware, network or software requirements identified by the Project Authority and/or the Contracting Authority at the time notice of testing is given to the Bidder.

### **Compliance Verification and Compatibility Testing**

Failure of the proposed equipment to meet the technical specifications of the RFP and any subsequent clarifications thereto may result in elimination of the equipment without further consideration.

In the event that the test devices do not function in accordance with the technical requirements of the bid solicitation or is not able to function in the NRC environment with NRC's applications, the Bidder will be required to rectify the incompatibility within 48 hours of notification. The resulting fault will be deemed a technical fault. A maximum of 2 technical faults will be allowed.

If the test device, or its replacement, exhibits a third technical fault or if the Bidder fails to meet the 48 hour deadline (on the first OR second technical fault) the test device will be returned to the bidder and will be deemed non-compliant.

If the testing indicates that some upgrades/changes (for example, to the drivers or firmware) are required, Canada will work with the Bidder to resolve these issues, provided they are reasonable and within a reasonable period.

If the test unit provided is new and is to be delivered to the end-user's location, and if it is agreed upon with NRC, the test unit may be considered as the first unit of the subsequent delivery. Once compatibility is assured, arrangements will be made for delivery of the rest of the order.

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**ANNEX D - OEM Certification**

As part of the evaluation, Canada requires OEM Certifications for the document scanners being bid. If the Bidder is itself the OEM, it **must** provide the certification entitled "OEM Certification – Bidder is the OEM of Products Offered". If the Bidder is not the OEM, it **must** provide the certification entitled "OEM Certification – Bidder is not the OEM of Products Bid". If the Bidder is bidding products from multiple OEMs, a separate certification must be provided in respect of each OEM.

<b>OEM Certification – Bidder is the OEM of Products Bid</b>	
On behalf of the Bidder, I certify that the Bidder is itself the OEM of the products being offered in response to the Solicitation identified below.	
Solicitation Number	
Name of Bidder	
Signature of Bidder's Authorized Representative	
Name of Bidder's Authorized Representative	
Date Signed	
If this Certification is limited to specific products or specific services, please provide details	

**Note for Joint Venture Bidder:** Where one of the members of the joint venture is the OEM, then this certification is required to be signed by that member of the joint venture.

<b>OEM Certification – Bidder is not the OEM of Products Bid</b>	
The OEM identified below authorizes the Bidder named below to provide its products and provide warranty service in relation to those products under the Contract issued as a result of the Solicitation identified below.	
Name of OEM	
Address of OEM	
Name of OEM's Authorized Representative	
Title of OEM's Authorized Representative	
Telephone Number of OEM's Authorized Representative	
Fax Number of OEM's Authorized Representative	
Signature of OEM's Authorized Representative	
Date Signed	
Solicitation Number	
Name of Bidder	
If this Certification is limited to specific products or specific services, please provide details	

**Note for Joint Venture Bidders:** Certifications made by the OEM must name (as the Bidder) ALL members of the joint venture Bidder that will be involved in delivering or servicing that OEM's equipment in the performance of the Work, or the joint venture itself must be named (if the joint venture has been given a name).

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File No. - N° du dossier  
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Buyer ID - Id de l'acheteur  
VAN580  
CCC No./N° CCC - FMS No./N° VME

### ANNEX E – JOINT VENTURE BID FORM

**Note:** Submit this form **only** if the Bid is being made by a **Joint Venture**.

If this certification is required, it 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 so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirements within that time period will render the offer non-responsive.

<b>Joint Venture Bid Form</b>
This Bid is being submitted by a joint venture.
Name of joint venture _____
Legal name of lead member of joint venture _____
Legal name of each other member(s) of joint venture _____ _____ _____
[adjust number of lines, as applicable]
As the authorized signatory of the lead member of the joint venture, I hereby confirm that all the members of the joint venture identified above have appointed the lead member as their agent for the purposes of responding to this solicitation and for all matters relating to any resulting contract.
Signature of lead member _____
Name of authorized signatory of lead member _____
Date Signed _____

**FORM A**

**SUBSTANTIATION OF TECHNICAL COMPLIANCE FORM**

The printer must meet the following mandatory requirements:

Line no.	Mandatory Criteria	Comply (Yes/No)	Substantiate	Reference
1	Deposition of fluidic materials must have a minimum drop size range of 1 to 10 picolitres.			
2	Substrates must be secured on a vacuum platen and must heat up to at minimum of 60°C.			
3	The printer must have a fiducial camera which must allow inspection and image capture of patterns and drops.			
4	Printed patterns must be created and printed on substrates in various sizes: minimum of 0.787×0.787 inches up to 8×11×0.04 inches.			
5	The printer head must contain a minimum of 16 nozzles.			
6	Nozzles must be spaced 200 to 300 microns apart and must have a nozzle diameter of 20 (+/- 5) microns.			
7	The printer head must spray inks with a particle size of 150 to 250 nanometres and a viscosity of 10 to 12 centipoises.			
8	The printer must use a disposable piezoelectric inkjet cartridge with a minimum cartridge volume of 1.5 ml.			
9	The printer must have the ability to print a layer 5 cm <sup>2</sup> with 625×2000 pixel resolution.			
10	The printer must have a waveform editor and a drop-watch camera system for the manipulation of the			

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	electronic pulses to the piezo jetting device, for optimization of drop characteristics.			
11	The printer must have a pattern editor program for a variety of patterns, and include a perpetual license.			
12	The printer must be Windows 7 compliant.			
13	The printer must have a power requirement of 110V.			