

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 1T3
Bid Fax: (902) 496-5016

**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

Title - Sujet POWDER COATING SYSTEM	
Solicitation No. - N° de l'invitation W355B-141419/A	Date 2013-10-01
Client Reference No. - N° de référence du client W355B-14-1419	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-219-9092	
File No. - N° de dossier HAL-3-71092 (219)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-11-12	Time Zone Fuseau horaire Atlantic Standard Time AST
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: Richard, Linda K.	Buyer Id - Id de l'acheteur hal219
Telephone No. - N° de téléphone (902) 496-5261 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE FMF CAPE SCOTT, 7HD WAREHOUSE BLDG D200 DOOR 1 TO 13 HALIFAX NOVA SCOTIA B3K5X5 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
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 3C9

Delivery Required - Livraison exigée See Herein	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. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

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

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days

Insert: ninety (90) days

2. 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.

3. Enquiries - Bid Solicitation

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

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

4. Applicable Laws

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

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

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. The total amount of Applicable Taxes must be shown separately.

1.1 Exchange Rate Fluctuation

C3011T(2010-01-11), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

As per Annex "A" Requirement.

1.2 Financial Evaluation

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

2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical 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

Bidders must provide the required certifications and documentation 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, if any certification made by the Bidder is found to be untrue whether 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions. The related documentation therein required will assist Canada in confirming that the certifications are true.

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) available from Human Resources and Skills Development Canada (HRSDC) - 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

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide a Powder Coating System in accordance with the Requirement at Annex "A".

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.

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

Delivery is mandatory on or before **March 31, 2014**. Firms who cannot meet this delivery will be deemed non-responsive and their bid will not receive further consideration.

If your firm is awarded a contract with a mandatory 31 March 2014 delivery and the delivery is not received by this date, your firm agrees that the contract may be terminated for mutual consent and each Party release the other from any past, present and future obligations under the contract.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Linda Richard
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row
Halifax, NS B3J 3C9

Telephone: 902-496-5261
 Facsimile: 902-496-5016
 E-mail address: linda.k.richard@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.

5.2 Technical Authority

The Technical Authority for the Contract (will be named upon award of contract)

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.

5.3 Contractor's Representative

Please complete:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____.

6. Payment

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. Customs duties are included. 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.

6.2 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

6.3 SACC Manual Clauses

C2000C (2007-11-30) Taxes - Foreign Based Contractor

7. Invoicing Instructions

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

Invoices must be distributed as follows:

- a. The original and two (2) copies must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

9. Applicable Laws

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

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 general conditions 2010A (2013-04-25) General Conditions - Goods (Medium Complexity)
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*) .

11. Defence Contract

SACC *Manual* clause A9006C (2012-07-16) Defence Contract

12. SACC *Manual* Clauses

A9062C	(2011-05-16)	Canadian Forces Site Regulations
B1501C	(2006-06-16)	Electrical Equipment

ANNEX "A"**REQUIREMENT**

Purchase Description: Powder Coating System, Quantity One (1)

General Description: A powder coating system capable of coating steel, aluminum and fiberglass work pieces as required by the FMFCS coating shop. Delivery is MANDATORY on or before March 31, 2014. If delivery cannot be met, the contract will be terminated.

Supply and Install the following:

1. One (1) powder coating system with the following:

Specifications:

Part 1

1. ELECTRIC BATCH PROCESS OVEN - ONE (1)

- a. General: the Batch Process oven will be floor mounted with top mounted heater box.
- b. Exhaust fan will be located on the oven roof

2. Performance:

- a. Operating temperature: 150°C-260°C
- b. Max heating provided: 90 KW
- c. Voltage/ Phase: 208V/ 3ph
- d. Re-circulating airflow: 4500 CFM
- e. Exhaust airflow: 750 CFM

3. Construction:

- a. oven housing and heater box will be constructed of 4" thick tongue and groove oven panels that consist of 20ga aluminized steel skin; 16ga aluminized perforated channels, 6lb density mineral wool insulation. Oven support structure consists of 12ga formed steel. Inside dimensions of oven are 6'W x 6'H x 10'L with a steel floor consisting of 3/16" plate steel.

4. Re-circulating fan:

- a. belt-driven plug fan type with lubrication points. Motor: single speed TEFC motor, 208V. Motor and fan accessible for service, mounted on steel frame secured with resilient mountings.

5. Heater elements:

- a. nichrome 5 sheathed coil open coil, individually removable.

6. Exhaust fan:

- a. centrifugal fan with backward inclined blades, V-belt drive with TEFC motor, 208V.

7. Product doors:

- a. the product doors will be constructed of 4" thick tongue and groove oven panels that consist of 20ga aluminized steel skin, 16ga aluminized perforated channels, 6lb density mineral wool insulation. Hinges will be heavy duty strap type.

8. Re-circulation ductwork (interior):

- a. this ductwork is fabricated of 20ga aluminized steel with adjustable discharge tabs. It is mounted on the side walls to provide a horizontal airflow around the parts.

9. Control panel: control panel comes with the following components:

- a. Types 1 industrial panel with main disconnect, and door mounted disconnect switch.
- b. Motor starters with branch circuit, and overload protection.
- c. Control Transformer with primary/secondary fusing.
- d. Control power supply 120vac/24vdc.
- e. Air Flow Switches and interlocks.
- f. Terminal strip.
- g. Operator remote control station with 5.7" BW touch screen.

PART 2

10. POWDER BOOTH ONE (1)

- a. A total air recirculation cartridge style powder booth. To come as packaged unit with 2 powder cartridge modules that include 2 direct drive plug fan, 6 high efficiency cartridge filters, 4 high efficiency final filters, 3 air pulse nozzles to create cleaning efficiency, and 1 storage bin.

11. PERFORMANCE/DESIGN CRITERIA

- a. Booth Enclosure:
 - i. Working Dimensions:
 - 1. 10'W x 10'H x 14'L
- b. Booth to be constructed of 18 gauge white pre-coated steel panels. Each panel is flanged and punched 6" o/c for on-site assembly
- c. Conveyor slot to be mounted on ceiling of enclosure.
- d. Airflow: cross airflow design that can be manually adjusted; extracting 100% between
- e. 2000-5050 CFM; extracting 100% of visible dust and obtain 99.8% efficiency on particles sized 0.5 microns.

12. Filtration systems:

- a. Exhaust Filtration: 1st stage is 12 high efficiency cartridge filters 8"ID x 26"L with 99.8% rating at 0.5 microns. Cartridge filters are held in place with a lever operating mechanism to provide fast cartridge replacement and provides a positive seal. Each set of cartridges are attached to Air Pulse Nozzles to increase cleaning efficiency. 2nd stage is 4 20" x 20" x 2" final filters.

13. Fluorescent light fixtures, inside access 4 ft, 4-Lamp, 265 mA, T8 electronic dual voltage ballast (120/277V) with 5 ft, 5-wire pre-wired electrical connection whip and 32 watt T-8,500K, 85 CRI lamps installed.

- a. Lights are Class I, Division 2 and Class 2, Division 2 rated. Lights are listed for location shaving deposits of readily combustible paint residue. Instant start (starting temperature at 0°F.) T-8 electronic ballast provides greater energy savings. The lamp holders are twist in style. The lights feature front/inside access for easy lamp replacement and are equipped with an interlock switch to disable painting operations when light access door is opened.

14. Exhaust Filter House: installed adjacent to paint booth to hold first and second stage of filtration.

- a. High strength panel construction built to resist 100 mm sp.
b. Sufficient lighting to allow easy change-out of filters and inspection of instruments.
c. Equipped with two
d. Design wall of filter house to support exhaust fans.

15. Deluxe Electrical Control Panel:

- a. Voltage: 208 volt, 60 hz, 3 phase
b. Motor starter(s)
c. Circuit protection
d. Transformer
e. Adjustable sequential control board for powder cleaning of cartridge filters
f. Photohelic gauge
g. Start or stop buttons
h. Light switch
i. Door mounted disconnect switch
j. Pilot Lights
k. Visual indicators for all operating functions running and pulsations as well as identifying plugged cartridge filters.
l. Each control panel is designed for a single point wiring feeder connection with breaker
m. All wires pre-numbered for easy identification

16. Exhaust Fan:

- a. Fan: 20" Direct Drive Plug Fan
b. Motor: 5hp, 208V TEFC motor with motor starters and circuit protection.

17. ACCEPTABLE MANUFACTURERS (or equivalent).

- a. Global Finishing Solutions.

- b. United Spray Booths Ltd.
- c. KSL Industrial.

18. MATERIALS

- a. Spray Booth Chambers and Plenums:
 - i. Minimum 1.2 mm galvanized steel with 0.91 mm inner liner and minimum 25 mm insulation.
 - ii. Seal seams and structural sections of spray booths with latex-based sealants only.
- b. Entry Doors: two doors with structural tubing frames and bi-fold movement; heavy duty hinges and pressure relieving safety door latches.
- c. Exhaust Filtration system: MACT compliant 2-stage exhaust filtration system.
 - i. First Stage: cartridge filters with 99.8% rating at 0.5 microns.
 - ii. Second Stage: multi-layered polyester media; 366 g/m².
 - iii. Galvanized header with 6 mm foam gasket on air-leaving side to prevent paint bypass around filter assembly.
 - iv. Provide 1 extra set of filters.
- d. Light Fixtures:
 - i. Four lamp, 2440 mm long fixture complete with 32 Watt, instant start, T-8 electronic ballast, 347 Volt / 60 Hz.
 - 1. Lamps: 32 Watt, F32T8, Med. Bi-Pin, 265 mA, 2440 mm long, 5000K with light output of 2950 lumens and CRI of 86.
- e. Provide wall penetrations for compressed air outlets, one each centred on side.

19. FABRICATION

- a. Fabricate units as follows:
 - i. Dual forward direct dive plug fans with motor and bearings positioned outside air stream.
- b. Provide outside air filter section with 50 mm - 30% ASHRAE efficiency filters. Provide clogged filter switch with signal to paint booth PLC.

PART 3

20. TYPE L GAS VENT

- a. Diameter 250mm stack. Quantity and fittings to accommodate owner's design drawing TR-11-059-201. Structural Brackets shown on the drawing are not part of this specification.
 - i. ULC listed, 288 degrees C continuous rating maximum.

- b. Sectional, prefabricated, double wall with 25 mm fiber insulation between inner and outer pipe.
- c. Liner: Type 304 stainless steel.
- d. Shell: aluminum coated steel.
- e. Seals: to be gas tight.
- f. The materials and construction of the modular sections and accessories shall be as specified by the terms of the products ULC listing.
- g. The vent system shall be designed to compensate for all gas induced thermal expansion.
- h. Inner pipe joints shall be securely connected and sealed with factory supplied overlapping V-bands.

21. ACCESSORIES

- a. Cleanouts: bolted, gasketed type, full size of breeching, as indicated.
- b. Hangers and supports: in accordance with recommendations of Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and recommended by chimney and stack manufacturer to provide a certified installation.
- c. Exit cone. Round type chimney caps as indicated.
- d. Expansion sleeves with heat resistant caulking, held in place as required.
- e. Provide supplementary supports and structural steel as required for support from building structure. Exterior supports to be hot dipped galvanized with S.S. fasteners.
- f. Provide thimble at wall penetration suitable for passing through wall material.
- g. Base tee with drain or internal drain section with drain.

22. Certifications:

- a. The equipment shall be certified by an acceptable Certification Organization. The following Certification Organizations are acceptable. The electrical control must bear a label from one of these organizations in order to be recognized as approved.
 - i. Canadian Standards Association (CSA)
 - ii. Entela
 - iii. Intertek Testing Services
 - iv. ETL Testing Laboratories
 - v. Warnock Hersey (WH)
 - vi. Underwriters Laboratories of Canada (ULC)
 - vii. Underwriters Laboratories Inc. (UL)
 - viii. MET Laboratories Inc. (MET)
 - ix. TUV Rheinland of North America
 - x. Quality Auditing Institute (QAI)
 - xi. TUV America Inc.
 - xii. Factory Mutual (FM) Approvals
 - xiii. Omni-Test Laboratories Inc.
 - xiv. Curtis-Straus LLC

- 23. NOTE: Labels from all Organizations above (with the exception of CSA and ULC), must be accompanied by a small "c" at the eight o'clock position or Canadian Standard number to indicate the product has been certified to the Canadian Standard.

- 24. Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is inspected and labelled (complete with verification documentation) by

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hal219

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W355B-14-1419

CCC No./N° CCC - FMS No/ N° VME

the Canadian Standards Association (CSA), Cantest Ltd, Entela, Intertek Testing Services, MET Laboratories, TUV SUD America Inc, Underwriters Laboratories of Canada, Electrical Safety Authority (ESA), or QPS Evaluation Services Inc. under the Special Inspection Program. This inspection must take place before equipment delivery.

25. Special / Additional Instructions:

- a. Start-up/Installation assistance as well as operation and maintenance training must be provided for a minimum of five (5) days at our facility in Halifax, Nova Scotia. The dates of this service will be scheduled by DND in accordance with delivery.
- b. Must have a minimum one (1) year warranty.
- c. Supply owner with three (3) copies of material and maintenance manuals. Contents of the binder shall contain at a minimum: equipment and material specifications, CRN and Mill Specifications from all equipment and piping / fittings and related information. Warranties and guarantees. Calibration and commissioning documentation. Copies of any permits and inspection certificates. Supply copies of all drawings, calculations and certifications for the receiver. The FMFCS owner reserves the right to add to this list as deemed appropriate.

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ANNEX "B"

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 contract. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable. 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.

Price is to include all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes to the destination.

Item #	Description	Qty.	Unit of Issue	Unit Price
1	Power Coating System as per Annex A - Requirement Make & Model Offered: _____ _____	1	ea.	\$ _____
Total Bid Price \$ _____				

ANNEX 'C'
MANDATORY TECHNICAL CROSS-REFERENCE

Bidders are requested to provide cross-reference below to identify the page(s) where each mandatory specification can be demonstrated in their technical documentation provided with their bid. Canada reserves the right to verify any and all information relating to mandatory requirements. For the few criteria which are not identified in specification sheets/literature/brochures, your firm's indication of "Compliance - Yes" will be consideration that the requirement is met or exceeded.

Mandatory Requirements		
		Cross Reference from Literature (ie: brochure title, page)
1a.	Batch Process oven must be floor mounted with top mounted heater box.	
1b.	Exhaust fan must be located on the oven roof.	
2a.	Operating temperature: 150°C-260°C	
2b.	Max heating provided: 90 KW	
2c.	Voltage/Phase: 208V/3 p h	
2d.	Re-circulating airflow: 4500 CFM	
2e.	Exhaust airflow: 750 CFM	
3a.	Oven housing and heater box must be constructed of 4" thick tongue and groove oven panels that consist of 20ga alumunized steel skin; 16ga aluminum perforated channels, 6lb denisty mineral wool insulation. Oven support structure consists of 12ga formed steel. Inside dimensions of oven are 6'W x 6'H x 10'L with a steel floor consisting of 3/16" plate steel.	
4a.	Recirculating fan: belt-driven plu fan type with lubrication points. Motor: single speed TEFC motor, 208V. Motor and fan accessible for service, mounted on steel frame secured with resilient mountings.	
5a.	Heater elemens: nichrome 5 sheathed coil open coil, individually removable.	
6a.	Exhaust fan: centrifugal fan with backward inclined blades, V-belt drive with TEFC motor, 208V.	
7a.	Product doors: the product doors will be constructed of 4" thick tongue and groove oven panels that consist of 20ga	

	aluminized steel skin. 16ga aluminized perforated channels, 6lb density mineral wool insulation. Hinges will be heavy duty strap type.	
8a.	Recirculation ductwork (interior) - this ductwork is fabricated of 20ga aluminized steel with adjustable discharge tabs. It is mounted on the side walls to provide a horizontal airflow around the parts.	
9.	Control Panel comes with the following components:	
	a. Types 1 industrial panel with main disconnect, and door mounted disconnect switch.	
	b. Motor starters with branch circuit, and overload protection.	
	c. Control Transformer with primary/secondary fusing.	
	d. Control power supply 120vac/24vdc.	
	e. Air Flow Switches and interlocks.	
	f. Terminal strip.	
	g. Operator remote control station with 5.7" BW touch screen.	
10.	Powder Booth: A total air recirculation cartridge style powder booth. To come as packaged unit with 2 powder cartridge modules that include 2 direct drive plug fan, 6 high efficiency cartridge filters, 4 high efficiency final filters, 3 air pulse nozzles to create cleaning efficiency, and 1 storage bin.	
11.	Performance/Design Criteria	
	a. Booth Enclosure working dimensions 10'W x 10'H x 14'L	
	b. Booth to be constructed of 18 gauge white pre-coated steel panels. Each panel is flanged and punched 6" o/c for on-site assembly.	
	c. Conveyor slot to be mounted on ceiling of enclosure.	
	d. Airflow: cross airflow design that can be manually adjusted, extracting 100% between	
	e. 2000-5050 CFM; extracting 100% of visible dust and obtain 99.8% efficiency on particles sized 0.5 microns.	
12.	Filtration systems:	
	a. Exhaust filtration: 1st stage is 12 high efficiency cartridge filters 8"ID x 26"L with	

	99.8% rating at 0.5 microns. Cartridge filters are held in place with a lever-operating mechanism to provide fast cartridge replacement and provides a positive seal. Each set of cartridges are attached to Air Pulse Nozzles to increase cleaning efficiency. 2nd stage is 4 20" x 20" x 2" final filters.	
13.	Fluorescent light fixtures: inside access 4 ft., 4-Lamp, 265 mA, T8 electronic dual voltage ballast (120/277V) with 5 ft, 5-wire pre-wired electrical connection whip and 32 wall T-8, 500K, 85 CRI lamps installed.	
	A. Lights are Class 1, Division 2 and Class 2, Division 2 rated. Lights are listed for location shaving deposits of readily combustible paint residue. Instant start (starting temperature at 0°F). T-8 electronic ballast provides greater energy savings. The lamp holders are twist in style. The lights feature front/inside access for easy lamp replacement and are equipped with an interlock switch to disable painting operations when light access door is opened.	
14.	Exhaust Filter House - installed adjacent to paint booth to hold first and second stage of filtration.	
	A. High strength panel construction built to resist 100 mm sp.	
	B. Sufficient lighting to allow easy change-out of filters and inspection of instruments.	
	C. Equipped with two	
	D. Design wall of filter house to support exhaust fans.	
15.	Deluxe Electrical Control Panel:	
	A. Voltage, 208 volt, 60 hz, 3 phase	
	B. Motor starter(s)	
	C. Circuit protection	
	D. Transformer	
	E. Adjustable sequential control board for powder cleaning of cartridge filters	
	F. Photohelic gauge	
	G. Start or stop buttons	
	H. Light switch	
	I Door mounted disconnect switch.	
	J. Pilot Lights	

	K. Visual indicators for all operating functions running and pulsations as well as identifying plugged cartridge filters.	
	L. Each control panel is designed for a single point wiring feeder connection with breaker	
	M. All wires pre-numbered for easy identification	
16.	Exhaust fan:	
	A. Fan: 20" Direct Drive Plug Fan	
	B. Motor: 5hp, 208V, TEFC motor with motor starts and circuit protection.	
17.	Acceptable Manufacturers	
	A. Global Finishing Solutions	
	B. United Spray Booths Ltd.	
	C. KSL Industrial	
	D. Or equivalent	
18.	Materials	
	a. Spray Booth Chambers and Plenums: i. minimum 1.2 mm galvanized steel with 0.91 mm inner liner and minimum 25 mm insulation. ii. Seal seams and structural sections of spray booths with latex-based sealants only.	
	b. Entry doors: two doors with structural tubing frames and bi-fold movement; heavy duty hinges and pressure relieving safety door latches.	
	c. Exhaust filtration system: MACT compliant 2-stage exhaust filtration system i. first stage: cartridge filters with 99.8% rating at 0.5 microns; ii. second stage: multi-layered polyester media, 366 g/m2. iii galvanized header with 6mm foam gasket on-air leaving side to prevent pain bypass around filter assembly. iv. provide 1 extra set of filters.	
	d. Light Fixtures: i. Four lamp, 2440mm long fixture complete with 32 Watt, instant start, T-8 electronic ballast, 347 Volt/60 Hz. 1. Lamps: 32 wall, F32T8, Med. Bi-Pin, 265 mA, 2440 mm long, 5000K with light output of 2950 lumens and CRI of 86.	
	e. Provide wall penetrations for compressed air outlets, one each centred on side.	

19.	Fabrication	
	a. Fabricate units as follows: i. Dual forward direct dive plug fans with motor and bearings positioned outside air stream.	
	b. Provide outside air filter section with 50mm - 30% ASHRAE efficiency filters. Provide clogged filter switch with signal to paint booth PLC.	
20.	Type L Gas Vent	
	A. Diameter 250mm stack. Quantity and fittings to accommodate owner's design drawing TR-11-059-201. Structural brackets shown on the drawing are not part of this specification. i. ULC listed, 288 degrees C continuous rating maximum	
	B. Sectional, prefabricated, double wall with 25 mm fiber insulation between inner and outer pipe.	
	C. Liner: type 304 stainless steel.	
	D. Shell: aluminum coated steel.	
	E. Seals: to be gas tight.	
	F. The materials and construction of the modular sections and accessories shall be as specified by the terms of the products ULC listing.	
	G. The vent system shall be designed to compensate for all gas induced thermal explosion.	
	H. Inner pipe joints shall be securely connected and sealed with factory supplied over lapping V-bands.	
21,	Accessories	
	A. Cleanouts; bolted, gasketed type, full size of breeching, as indicated.	
	B. Hangers and supports: in accordance with recommendations of Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and recommended by chimney and stack manufacturer to provide a certified installation.	
	C. Exit cone. Round type chimney caps as indicated.	
	D. Expansion sleeves with heat resistant caulking, held in place as required.	
	E. Provide supplementary supports and structural steel as required for support	

	from building structure. Exterior supports to be hot dipped galvanized with S.S. fasteners.	
	F. Provide thimble at wall penetration suitable for passing through wall material.	
	G. Base tee with drain or internal drain section with drain.	
22.	<p>Certifications:</p> <p>A. The equipment shall be certified by an acceptable Certification Organization. The following Certification Organizations are acceptable. The electrical control must bear a label from one of these organizations in order to be recognized as approved.</p> <p>i.. Canadian Standards Association (CSA)</p> <p>ii. Entela</p> <p>iii. Intertek Testing Systems</p> <p>iv.. ETL Testing Laboratories</p> <p>v. Warnock Hersey (WH)</p> <p>Vi. Underwriters Laboratories of Canada (ULC)</p> <p>Vii. Underwriters Laboratories Inc. (UL)</p> <p>Viii. MET Laboratories Inc. (MET)</p> <p>Ix. TUV Rheinland of North America</p> <p>X. Quality Auditing Institute (QAI)</p> <p>Xi. TUV America Inc.</p> <p>Xii. Factory Mutual (FM) Approvals</p> <p>Xiii. Omni-Test Laboratories Inc.</p> <p>Xiv. Curtis-Straus LLC</p>	
23.	Labels from Organizations about (with the exception of CSA and ULC), must be accompanied by a small "c" at the eight o'clock position of Canadian Standard number to indicate the product has been certified to the Canadian Standard.	
24.	Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is field inspected and labelled (complete with verification documentation) by the Canadian Standards Association (CSA), Cantest Ltd., Entela, Intertek Testing Systems, MET Laboratories, TUV SUD America Inc., Underwriters Laboratories of Canada, Electrical Safety Authority (ESA), or QPS Evaluation Services Inc., under the Special Inspection Program. This inspection must take place before equipment delivery.	

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Buyer ID - Id de l'acheteur

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25.	Special/Additional Instructions	
	A. Start-up/installation assistance as well as operation and maintenance training must be provided for a minimum of five (5) days at our facility in Halifax, Nova Scotia. The dates of this service will be scheduled by DND in accordance with delivery.	
	B. Must have a minimum one (1) year warranty.	
	C. Supply owner with three (3) copies of material and maintenance manuals. Contents of the binder shall contain at a minimum: equipment and material specifications, CRN and Mill Specifications from all equipment and piping/fittings and related information. Warranties and guarantees. Calibration and commissioning documentation. Copies of any permits and inspection certificates. Supply copies of all drawings, calculations and certifications for the receiver. The FMFCS owner reserves the right to add to this list as deemed appropriate.	

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**ANNEX 'E'
DRAWING**

Please see attached.

