

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St./ 11 rue, Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet MOBILE X-RAY VEHICLE SYSTEM	
Solicitation No. - N° de l'invitation 47064-146977/A	Date 2013-10-03
Client Reference No. - N° de référence du client 1000316977	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-924-63619	
File No. - N° de dossier pv924.47064-146977	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-11-13	Time Zone Fuseau horaire Eastern Standard Time EST
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: Caron, Anne	Buyer Id - Id de l'acheteur pv924
Telephone No. - N° de téléphone (819) 956-3874 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CANADA BORDER SERVICES AGENCY 79 BENTLEY AVE SCIENCE AND ENGINEERING OTTAWA Ontario K2E 6T7 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

Scientific, Medical and Photographic Division / Division de l'équipement scientifique, des produits photographiques et pharmaceutiques
11 Laurier St./ 11 rue, Laurier
6B1, Place du Portage
Gatineau, Québec K1A 0S5

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. Statement of Requirement

The statement of requirement is detailed under Article 2 of the resulting contract clauses.

2.1 Optional Requirement

The optional requirement is detailed under Article 2.1 of the resulting contract clauses.

2.2 Delivery Requirement

Delivery of the ten (10) systems is requested by March 31, 2014. Deliveries of 8 of the 10 systems must be completed by March 31, 2014.

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

1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

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 ten (10) 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 Ontario.

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

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid (3 hard copies and 3 soft copies on CD or DVD).
- Section II: Financial Bid (2 hard copies and 1 soft copy on CD or DVD).
- Section III: Certifications (2 hard copies)
- Section IV: Additional Information (3 hard copies and 3 soft copies on CD or DVD).

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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>). 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. Detailed instructions for documentation formats and deliverables may be found in Annexes.

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.

Bidders must submit firm prices for all items listed at Annex "D" including Optional Requirements and Required options. Failure to do so will render a bidder non-compliant and no further consideration will be given to bid.

1.1 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information (Bidder to complete)

The following applies to the Requirement and bidders must provide the following information :

1.1 Product(s) Offered

The Bidder must indicate the make and model number of the products offered (identify specific components which make up the system):

Name of Manufacturer: _____

Model/Part Number: _____

1.2 Delivery

Delivery of the ten (10) systems is requested by March 31, 2014. The best delivery that can be offered by the Bidder is _____.

Deliveries of 8 of the 10 systems must be completed by March 31, 2014.

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1.3 Contractor's Representative

The telephone number of the person responsible for:

General Enquiries Name: _____

-

Telephone No.: _____

Facsimile No.: _____

eMail address: _____

Delivery & Follow-Up Name: _____

Telephone No.: _____

Facsimile No.: _____

eMail address: _____

-

1.4 Documentation and Training

1.4.1 Operator Training

On-site radiation safety and operator training must be provided in English and/or French (as required, in Quebec) for up to fifteen (15) operators per system delivered. Operator training must be delivered within 14 days of the completion of Final Acceptance testing. All costs associated with the on-site training must be included in the price.

DOCUMENTATION DELIVERABLE: DID 004 - Operator Training.

1.4.2 Technical Support During Training

The Contractor must provide on-site technical support by qualified maintenance technicians during the operator training courses. The technician must be prepared to take immediate action in the event of failure or malfunction.

1.4.3 CBSA Developed Training

Following the initial training provided by the Contractor, it is CBSA's intention to build its own training course to train and retrain its own staff to accommodate staff changes over time. The Contractor must allow CBSA to use (cut and paste or reproduce) any part(s) of its manuals and/or training materials in order to produce a customized CBSA course. The CBSA will ensure labeling or logo's belonging to the Contractor are removed from the documentation, except where necessary to identify the system (i.e., within images of the device).

1.4.4 Operator Manuals

Each system must be supplied with two (2) hard copies (one in French and one in English) of the Operator's Manual. Both French and English versions of the Operator's Manual must be supplied in electronic form (.pdf format) to the CBSA's Ottawa-based Detection Technology Section (DTS).

DOCUMENTATION DELIVERABLE: DID 002 - Operator's Manuals.

1.4.5 Technical Manuals

Each system must be supplied with two (2) hard copies (one in French and one in English) of the Technical Manual. Both French and English versions of the Technical Manual must be supplied in electronic form (.pdf format) to the CBSA's Ottawa-based Detection Technology Section (DTS).

DOCUMENTATION DELIVERABLE: DID 003 - Technical Manuals.

1.5 Service

Purchase of the system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system. Response for this service shall be within 6 hours.

Response for services requiring an on-site Technician shall be within 24 hours or less.

Service must include but not limited to any-and-all corrective maintenance, calibration, and preventive maintenance and repair parts.

The consumable and replacement parts must be available for the estimated life cycle of the instrument, a minimum of 10 years.

Also, provide the following with your bid:

- a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.

- b) Locations of available replacement parts from consumables to major components.

- c) Response time in regards to service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

- d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

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1.6 Corporate Experience

The Bidder must have designed and manufactured three (3) same or similar systems in the past five (5) years.

The Bidder must provide evidence of this experience as part of the proposal. Where permitted by the previous customers, the Bidder must provide contact information for these previous systems. Referenced systems must be same/similar as the one proposed in this bid. All such referenced systems must be fully operational and demonstrate that the bidder has a proven track record of supplying and maintaining similar equipment. Canada may contact these references. The references will only be used to validate the information submitted by the Bidder.

1.7 Certificates

The Bidder must be certified to and provide proof of certification of ISO 9001:2008 Quality Management System (QMS) as part of the proposal.

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

All proposals submitted must be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. The onus is on the bidder to provide all the information necessary to ensure a complete and accurate assessment.

1.1.1 Mandatory Technical Criteria

See Annex "B"

The Bidder must provide, with their technical bid, technical literature/brochures, operating manuals, written documentation, etc. to demonstrate compliance with each area of the criteria listed in Annex "B". Failure to provide the technical literature or failure to demonstrate compliance with any area of the criteria will in the Bid being deemed non-compliant. For requirements referencing a **DOCUMENTATION DELIVERABLE**, the Bidder must also provide, with their technical bid, all information requested in the referenced Data Item Description (DID) document. By submission of a Bid, the Bidder agrees to provide all remaining information requested in the DID according to the schedule defined therein.

1.1.2 Point Rated Technical Criteria

See Annex "C"

1.1.3 Pre-Award Testing - Data Validation Test (DVT) (Mandatory)

For all compliant bids, the Bidder must perform a Data Validation Test (DVT) with a system of the type proposed for purchase by the Government of Canada to validate performance claims and system compliance with the requirements. The Bidder must conduct the Data Validation Test at a mutually agreed upon date/time/location (system must be made available within 30 days after notification of compliant bid), only one DVT will be performed per compliant system; CBSA personnel must be able to observe and direct the testing.

Test results from the DVT will be used to confirm compliance and point allocation based on the Technical Evaluation Matrix. The detailed Matrix will be supplied to the Bidder during the DVT. Failure to demonstrate compliance will result in the Bidder's proposal being declared non-responsive.

CBSA will be responsible for all travel and living expenses for CBSA and PWGSC personnel attending the Testing. The Bidder will be responsible for all costs to furnish test equipment, test fixtures, radiation survey instruments required to demonstrate systems compliance. The Bidder will be responsible for all travel and living expenses for its personnel attending/performing the Testing.

1.2 Financial Evaluation

1. The price of the bid will be evaluated as follows:
 - a) bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
 - b) bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
2. Prices will be evaluated on a FOB Destination.
3. For the purpose of the bid solicitation, bidders with an address in Canada are considered Canadian-based bidders and bidders with an address outside of Canada are considered foreign-based bidders.
4. Prices will be evaluated based on total aggregated bid price (includes all pricing detailed in Annex "D").

2. Basis of Selection

2.1 Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria;
2. Bids not meeting choose (a) or (b) will be declared non-responsive.

3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60% for the technical merit and 40% for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price (including optional quantities) and the ratio of 40%.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by the highest overall combined ranking based on a weighting of 60% technical and 40% price, respectively. The total available points equals 30 and the lowest evaluated price is \$50,000 (50*).

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		27/30	25/30	22/30
Bid Evaluated Price		\$70,000.00	\$55,000.00	\$50,000.00
Calculations	Technical Merit Score	27/30 x 60 = 54.0	25/30 x 60 = 50.0	22/30 x 60 = 44.0
	Pricing Score	*50/70 x 40 = 28.6	*50/55 x 40 = 36.4	*50/50 x 40 = 40.0
Combined Rating		82.6	86.4	84.0
Overall Rating		3	1	2

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

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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 2003. 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](http://www.labour.gc.ca/eng/standards_equality/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equality/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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex F - Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Statement of Requirements

The Canada Border Services Agency (CBSA) has a requirement for the procurement of ten (10) Mobile X-Ray Vehicles Systems that will be used for the CBSA examination of baggage and freight at the international airports and other facilities across Canada. The Contractor must provide Systems in accordance with the Statement of Requirements at Annex "A" and Mandatory Specifications detailed in Annex "B".

2.2 Optional Requirement

The Contractor grants to Canada the irrevocable option to purchase up to twenty (20) mobile X-ray vehicle systems under the same terms and conditions and at the prices detailed in Annex "D" of the contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within twenty four (24) months after contract award by sending a written notice to the Contractor.

2.3 Factory Acceptance Testing (FAT)

The Contractor must perform a Factory Acceptance Test on a fully assembled and configured system, to validate performance claims and system compliance with the requirements. CBSA will work with the Contractor to develop the finalized FAT process. The Contractor must conduct the FAT at a mutually agreed upon date/time; CBSA personnel must be able to observe and direct the testing.

CBSA will be responsible for all travel and living expenses for CBSA personnel attending the FAT. The Contractor will be responsible for all costs to furnish test equipment, test fixtures, radiation survey instruments required to demonstrate systems compliance for the FAT. The Contractor will be responsible for all travel and living expenses for its personnel attending/performing the FAT.

The Contractor will report on all collected data and results in a timely manner. CBSA's Science and Engineering Directorate will document all deficiencies during the FAT and the Contractor will rectify all deficiencies prior to system delivery and Site Acceptance Testing.

2.4 Site Acceptance Testing (SAT)

The Contractor must perform a Site Acceptance Test (SAT) on each system supplied at each installation site. CBSA will work with the Contractor to develop the finalized SAT process. The SAT will include: testing done during the FAT; an inventory check of all supplied peripheral components; verification of the absence of damage; along with any site-specific tests necessary to ensure satisfaction of the requirements. The CBSA will be responsible for all travel and living expenses for CBSA personnel attending the SAT. The Contractor will be responsible for all costs to furnish test equipment, test fixtures, radiation survey instruments required for the SAT. The Contractor will be responsible for all travel and living expenses for its personnel attending/performing the SAT. CBSA's Science and Engineering Directorate will document any deficiencies. The Contractor will rectify all deficiencies prior Final Acceptance.

2.5 Documentation

2.5.1 Operator and Technical Manuals

Manuals are considered a part of the equipment. Each system must be supplied with two (2) hard copies (one in French and one in English) of the Operator and Technical Manual. Both French and English versions of the Operator's Manual must be supplied in electronic form (.pdf format) to the CBSA's Ottawa-based Detection Technology Section (DTS).

2.5.2 CBSA Developed Training

The Contractor allows CBSA to use (cut and paste or reproduce) any part(s) of its manuals and/or training materials in order to produce a customized CBSA course. The CBSA will ensure labeling or logo's belonging to the Contractor are removed from the documentation, except where necessary to identify the system (i.e., within images of the device).

2.6 Training

2.6.1 Operator Training

On-site radiation safety and operator training must be provided in English and/or French (as required, in Quebec) for up to fifteen (15) operators per system delivered. Operator training must be delivered within 14 days of the completion of Final Acceptance testing.

2.6.2 Technical Support During Training

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The Contractor must provide on-site technical support by qualified maintenance technicians during the operator training courses. The technician must be prepared to take immediate action in the event of failure or malfunction.

2.7 Service

Purchase of the system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system. Response for this service shall be within 6 hours.

Response for services requiring an on-site Technician shall be within 24 hours or less.

Service must include but not limited to any-and-all corrective maintenance, calibration, and preventive maintenance and repair parts. Purchase of the system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system. Response for this service shall be within 6 hours.

Response for services requiring an on-site Technician shall be within 24 hours or less.

Service must include but not limited to any-and-all corrective maintenance, calibration, and preventive maintenance and repair parts.

The consumable and replacement parts must be available for the estimated life cycle of the instrument, a minimum of 10 years.

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.

Subsection 9 of 2010A General Conditions - Goods or Services, is amended as follows:

Delete: Subsection 9 in it's entirety.

Insert: " The Work is subject to inspection and acceptance by Canada. Despite prior acceptance of the Work and without restricting any conditions or warranty imposed by law, the Contractor, if requested by the Minister to do so, must replace, repair or correct at its option and its own expense any Work which becomes defective or which fails to conform to the Contract requirements, where applicable. For goods, **the on-site warranty period will be twenty-four (24) months after delivery and acceptance or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer.** The on-site warranty covers parts, labor and all related expenses. Any Work replaced, repaired or corrected pursuant to this section is subject to all provisions of the contract to the same extent as Work initially performed."

4. Term of Contract

The contract will be in force until all warranty or optional provisions of this agreement are expired.

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4.1 Delivery Date

All the deliverables must be received on or before (*will be inserted at contract*).

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Anne Caron

Public Works and Government Services Canada
Acquisitions Branch
Commercial Consumer Products Directorate
11 Laurier Street, 6A2, Phase III
Place du Portage, Hull, Quebec, K1A 0S5

Telephone: (819) 956-3874

Facsimile: (819) 956-3814

E-mail address: anne.caron@tpsgc-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.

5.2 Technical Authority

The Technical Authority for the Contract is: (*will be inserted at 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

The telephone number of the person responsible for: (*will be inserted at contract*)

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 firm unit prices as specified in Annex "D" for a cost of \$ (*will be inserted at contract*). 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.

6.2 Multiple Payments

SACC *Manual* clause H1001C (2008-05-12) Multiple Payments

6.3 Milestone Payments

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Milestone No.	Description or "Deliverable"	Firm Amount
1	Factory Acceptance	25% of unit price
2	Delivery of Equipment	50% of unit price
3	Final Acceptance	25% of unit price

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 one (1) copy must be forwarded to the following address for certification and payment. *(to be filled in only at contract award)*
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
- (c) one (1) copy must be forwarded to the consignee.

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.

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

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

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 - General Conditions - Goods (Medium Complexity))
- (c) Annex A, Statement of Requirements;
- (d) Annex B, Mandatory Specifications;
- (e) Annex C, Point Rated Technical Criteria;
- (f) Annex D, Basis of Payment;
- (g) Annex E, Data Item Description Sheets (DID);
- (h) Annex F, Federal Contractors Program for Employment Equity - Certification
- (i) the Contractor's bid dated (*insert date of bid*)

11. SACC Manual Clauses

SACC Manual clause B1501C (2006-06-16) Electrical Equipment
 SACC Manual clause G1005C (2008-05-12) Insurance
 SACC Manual clause B7500C (2006-06-16), Excess Goods
 SACC Manual clause A9068C (2010-01-11), Site Regulations
 SACC Manual clause A2000C (2006-06-16), Foreign Nationals
 SACC Manual clause A2001C (2006-06-16), Foreign Nationals
 SACC Manual clause A9049C (2011-05-16), Vehicle Safety

12. Shipping Instructions – FOB Destination

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

FOB Destination as detailed in Annex "D" including all delivery charges and customs duties and taxes.

ANNEX "A" - STATEMENT REQUIREMENTS

The Canadian Border Services Agency (CBSA) - Science and Engineering Directorate has a requirement to purchase mobile X-ray vehicle systems for the CBSA examination of baggage and freight at the international airports and other facilities across Canada.

The following applies to the requirement and must be provided by the Contractor

The supplied equipment must meet or better all of the requirements defined below. Systems not meeting all the following Requirements will be considered non-compliant.

For requirements referencing a DOCUMENTATION DELIVERABLE, the Bidder must provide all information requested.

1 General Requirements

- 1.1 The mobile X-ray vehicle systems must be delivered to the CBSA locations specified in Annex "D".
- 1.2 Registration Documents: These mobile x-ray vehicles must have all the registration documents including New Vehicle Information Statement (N.V.I.S.), in order to be license plated in all provinces of Canada.
- 1.3 For all compliant bids, the Bidder must perform a Data Validation Test (DVT) as detailed under Article 1.1.3 of Part 4.
- 1.4 The Contractor must perform a Factory Acceptance Test as detailed under Article 2.3 of the resulting contract clauses (Part 6).
- 1.5 The Contractor must perform a Site Acceptance Test (SAT) as detailed under Article 2.4 of the resulting contract clauses (Part 6).
- 1.6 Tasks for this requirement must include development, execution, system fabrication and, assembly, delivery, documentation, initial training and warranty. Specific technical and operational requirements are detailed below. CBSA intention at project completion is for the mobile x-ray vehicle systems to be a turnkey operation.

2 X-Ray System Requirements

2.1 Multi Energy X-ray Imaging

The X-ray system must be capable of producing images of the components and contents of target objects using non-intrusive multi energy X-ray imaging technique. Standard color coding for organic, inorganic and metallic materials must be incorporated when processed image is displayed on the screen. Minimum requirement is for a single-view transmission multi energy X-ray system. However, dual-view and backscatter (backscatter system for the purposes of this application is defined as an X-ray system having backscatter X-ray imaging capabilities in addition to standard transmission X-ray capabilities) X-ray systems will also be considered provided that they meet all of the mandatory specification and space restrictions in particular.

2.2 X-Ray System Tunnel Opening

The X-ray system must be capable of scanning standard packages and objects with a maximum width of 800 mm and/or a maximum height of 800 mm. The X-ray system tunnel opening must be a minimum of 850 mm. (33.46 inches) wide by 850 mm. (33.46 inches) high.

2.3 Mobility

The equipment must be a single unit integrated into a standard road vehicle. Detailed specifications for the vehicle are defined in more details under "Vehicle Requirements" section.

2.4 X-ray Generator Energy

The system must be a multi-energy X-ray system with an anode operating voltage of 160 kV minimum.

2.5 X-ray System Power Input

X-ray equipment power input must have two separate cable inputs: one from generator and one from shore power.

2.6 Electrical Power Generator

An onboard commercial grade generator capable of supplying the necessary electrical power for the safe operation of the on-board x-ray system and the other electrical operative components. This generator must be permanently installed in the vehicle (see "Generator Specifications" section).

2.7 Indicator Lights

"X-ray On" indicators and all other illuminating indicators must be "solid state" with LED lights.

2.8 Fail-safe

The system must include a means for fail-safe and shutdown of all system components in the case of a power loss. This functionality must ensure that radiation emission is stopped, that no data is lost, and that the system may be restarted as normal when power is restored.

2.9 X-ray System Mounting

The X-ray system must be mounted to the floor of the vehicle with heavy-duty rubber shock absorbers. System chassis must be aluminum welded; it must not be riveted or glued.

2.10 Scanning Rate

The X-ray system must be capable of scanning targets/conveyances on a continuous basis 24 hours per day. Conveyor speed must be a minimum of 0.20 m/s \pm 10% in either direction.

2.11 Multiple Objects Scanning

The X-ray system must be capable of scanning multiple objects during one continuous action and automatically separate the resulting scan images into separate files for processing.

2.12 Forward and Reverse Mode of Operation

The X-ray system must be able to operate in forward and in reverse modes. The movement of goods on the conveyor and the direction of image scrolling must correspond in forward and reverse mode.

2.13 Minimum Number of Operators

The system must enable scanning operations with only one operator.

2.14 Operator Console

System monitor and keyboard must be contained in a console that can be used either from inside or outside, without being lifted and re-installed (heavy duty swivel arm or sliding tray system).

2.15 Identification of Controls

All controls (switches/buttons/levers) must be clearly marked in order to identify their function(s). These markings must be bilingual (French and English) or be universal icons, eliminating the need for written words.

2.16 Signage

All signs and instructional markings must be permanently painted, etched or silk-screened (or equivalent) onto surfaces. These must have high resistance to mechanical abrasion and signs must not be adversely affected by cleaning solutions.

All signs and instructional markings must be in French and English on all operator controls and primary systems, and must be of equal size.

All signs must be compliant with requirements of the applicable Canadian regulatory authorities for this equipment.

2.17 Maturity of Design

No refurbished or used equipment will be considered

2.18 X-ray System Regulatory Compliance

All systems and subsystems must be compliant with applicable Canadian regulatory codes and requirements; these may include, but are not limited to standards and regulations defined by, the Canadian Standards Association (CSA), Transport Canada, the Canada Labour Code, the National Fire Code of Canada, the Canadian Environmental Protection Act, and the applicable Health Canada regulations.

The bidder must provide a preliminary report on the projected radiation dose rates around the system. The system must comply with Health Canada requirements. The bidder must provide the following supporting documentation:

- a) Compliance to Safety Code 29, Requirements for the Safe Use of Baggage X-ray Inspection Systems. Radiation dose rate must not exceed 0.5 mR/hour^{-1} ($0.13 \text{ } \mu\text{C kg}^{-1} \text{ h}^{-1}$) at 5.0 cm from any external surface of the x-ray inspection system as per Section 4.1.4, 4(ii).
- b) Compliance with the Canadian Radiation Emitting Devices Regulations (RED act) Part IV, C.R.C., c. 1370

DOCUMENTATION DELIVERABLE: Preliminary report on the projected radiation dose rates around the system

2.19 Operating Temperature

The system must be capable of continuous operation in the Canadian environment; including ambient temperatures ranging from -20° C to $+40^{\circ} \text{ C}$, and up to 95% relative humidity.

2.20 Protection from Dirt and Debris

The system's components must be protected from dirt, debris, dust and liquids. All electronic circuitry must be installed in locations such that debris from examined goods cannot fall onto or infiltrate electronic or mechanical assemblies to cause performance degradation or failure. All access panels must be lockable with a high quality, low profile lock/latch mechanism.

2.21 Login

A user login and password must be required at the start up.

2.22 Access Levels

The system must employ three levels of system access for CBSA that must enable:

- a) Level 1: Operator – All operator functions pertinent to use of system for scanning target objects.
- b) Level 2: Supervisor – All Level 1 functions, plus access, manage stored scan data files, and access, create, edit add/remove user accounts.
- c) Level 3: Administrator (X-ray technician) – All Level 2 functions, plus: diagnostic, calibration functions, and other functionalities required to setup and repair the equipment.

2.23 Inspection Counter

The system must be capable of recording and displaying the number of scans for the following:

- a) a scanning session that can be reset by operators and that will have password protection;
- b) a scanning day that can be reset by operators and that will have password protection;
- c) the lifetime of the system that cannot be reset by operators or technical personnel.

2.24 Detector Normalization

The X-ray system must employ a scheme of normalization that compensates for the lower levels of radiation encountered at the outer edges of the radiation beam.

2.25 Detector Layout

Gaps between detector groups or detector overlaps must be minimal and the results of these anomalies must not be visible in the "un-zoomed" image.

2.26 Date and Time

The inspection system must incorporate a means for Network Time Protocol (NTP) synchronization. The NTP synchronization will enable the data and time to be displayed on the graphical interface and to stamp (register) on each image file.

2.27 Saving Images

The system must automatically save scanned images using date and time of scan as storage and retrieval file name parameters. In addition to raw image data, the system must be capable of saving images in the following standard formats: TIFF, JPEG, or BMP.

2.28 Export of Raw Image Data

It must be possible to export raw image data for:

- a) processing on a like system;
- b) returning to the same system on which the original acquisition was captured;
- c) displaying on a remote workstation.

2.29 Export of Images

It must be possible to export scan images, without distorting the aspect ratio, in the following standard formats: TIFF, JPEG, or BMP.

2.30 Manual Retrieval of Scan Data

It must be possible to export scan images and data files by copying and saving them to external media (CD/DVD) and standard storage devices (e.g. USB drive). Such devices must be automatically recognized by the operating system and made available for the movement of files without the need of special computer configuration.

2.31 Image Archiving

System must include manual image archiving software in a proprietary, non-commercial format for increased security. System must include automatic image archiving (for a minimum of 25,000 images) in a proprietary, non-commercial format for increased security. System must be capable of viewing images archived in a proprietary format and saving archived images in the following standard formats: TIFF, JPEG, or BMP.

2.32 Computer System and Data Management

Please see "Computer System Requirements" section.

2.33 Imaging Tools

The system must enable manipulation of the scanned image to better identify and characterize components of the scanned object and its contents.

2.34 Image Analysis Toolbox

The image manipulation capability must include but not be restricted to the use of a full suite of "easy-to-use" tools which can be applied/removed during image analysis and must include common presets to facilitate use. As part of this tool suite, the following basic functionalities must be included:

- a) Zoom Tool: to provide a means for operators to zoom in and out of parts of the scanned image for localized analysis. System must have continuous electronic zoom, capable of enlargement up to 16X.
- b) Contrast and Brightness Tool: to provide a means for operators to modify the contrast and brightness of the scanned image.
- c) Image Enhancement/Sharpness Tool: to provide a means for operators to modify image sharpness and color scheme to emphasize or discriminate between different elements in the image.
- d) High Penetration Tool: to change image contrast so details of high penetration are more defined
- e) Gray Scale Image: to be able to toggle transmission image between default color and grayscale
- f) Metallic Stripping: to highlight detected organic (and mixed composition) elements on the transmission image
- g) Organic Stripping: to highlight detected metals and other inorganic materials on the transmission image
- h) Negative: to reverse dark and light areas on transmission image
- i) Image Annotation: to provide a means for operators to highlight and type in comments about specific areas in an image for future reference and review.

3 Vehicle requirements

3.1 Vehicle Weight

The proposed vehicle with a mounted X-ray system cannot exceed a final built weight of or 14,000 pounds (6,350.29 kg).

3.2 Vehicle dimensions

Maximum vehicle dimensions (in an over-the-road driving configuration) including Emergency lighting system: 295" (749.3cm) length, 96" (243.8cm) width, 98" (248.9cm) height.

3.3 Engine

The proposed vehicle must be powered with a V-8 or V-10 gas or flex fuel engine with rated horse power to final weight of built vehicle.

3.4 Transmission

The proposed vehicle must be equipped with an automatic transmission with overdrive.

3.5 Power steering

The proposed vehicle must be equipped with power steering.

3.6 Climate control

The proposed vehicle must be equipped with climate control systems for heating and air conditioning.

3.7 Suspension

The proposed vehicle with a mounted X-ray system must have a heavy duty suspension capable of handling the final build weight including 3 occupants.

3.8 Gauges

The proposed vehicle must be provided with original vehicle manufacturer gauges.

3.9 Vehicle Occupants

The proposed vehicle with a mounted X-ray system must be equipped with seating and seat belts for one driver and two passengers.

3.10 Tires

The proposed x-ray mounted vehicle must be supplied with tires including full size spare, rated to final build weight including 3 occupants. The proposed x-ray mounted vehicle must be supplied with a set of winter tires mounted on rims, rated to final build weight including 3 occupants.

3.11 Car battery

The proposed X-ray mounted vehicle must be supplied with a dual car battery system (or an equivalent alternative), as to provide extra cranking and starting power.

3.12 Exterior coating

The proposed x-ray mounted vehicle must be supplied in original vehicle manufacturer white color.

3.13 Vehicle Regulatory Compliance

The proposed vehicle system and subsystems must meet all pertinent Canadian regulatory requirements at the time of solicitation. These include, but are not limited to: Transport Canada Motor Vehicle Safety Act, Canadian Standards Association (CSA), Health Canada Safety Codes. The Bidder must demonstrate (in writing) compliance with all standards and regulations. The X-ray vehicle must also meet all the Motor Vehicle Safety Regulations C.R.C., c. 1038 for commercial vehicle use in Canada.

3.14 Fuel System

Fuel system for the vehicle engine and generator must conform to all requirements of "Canadian Vehicle Safety Requirements" and utilize the chassis manufacturer's furnished auxiliary connections according to manufacturer's technical requirements for the connection of generator fuel lines.

3.15 External power outlet

There must be at least one external power outlet 120 VAC +/-10% single-phase 60 Hz, 15A.

3.16 Rear facing camera

The vehicle must be equipped with a rear facing camera system with 7" (minimum) monitor mounted on/or in the dashboard of the vehicle which allows the driver to view the area at the rear of the vehicle while reversing.

3.17 Safety kits

The vehicle must be equipped with a Canada Labour Code compliant First Aid Kit for 2-5 employees. Must have two fire extinguishers of (A-B-C type) dry chemicals, 5 pound each; one installed near the tunnel entry. The vehicle must also be equipped with a MOT/DOT Safety Hazard Kit (including triangles and flares).

4 Power Requirements

4.1 Electrical power

Electrical power must be 120V AC +/-10%, single phase, 15A, 60 Hz. The x-ray system and its components must perform with an input voltage range from 102 VAC to 132 VAC.

4.2 Generator requirements

Auxiliary power unit (generator) must be contained within the vehicle and be accessible from the outside. The generator must be slide tray mounted for easy servicing and diagnostic. The auxiliary power generator must be supplied with its own battery, independent from vehicle batteries. The auxiliary power generator battery must be wired in line with the vehicle charging system, as when the vehicle engine is running the auxiliary power generator battery is re-charged.

4.3 AC power cord

The x-ray system AC power must be derived from a permanently connected power cord that is not more than 15 meters (49.2 ft) in length. If there is no shore power, the system must be linked to the onboard generator. This cord must be a heavy-duty waterproof type, which is characterized for use on warehouse floors and outside parking lot. This cord must be stowed on a power cord retraction unit. This system must incorporate a mechanism to prevent free-wheeling recoil during an accidental release of the cable by the operator thereby preventing personal injury or equipment damage. The power cord plug must be of a high quality industrial exterior type U-ground with good cable strain relief characteristics.

5 Conveyor System Requirements

5.1 Weight capacity

Conveyor weight capacity must be a minimum of 300 lbs (136.7 kg). Tunnel trays must be able to withstand an impact/shock weight of 400 lbs (181.4 kg).

5.2 Conveyor belt

Conveyor belt height from ground level must be between 32 and 36 inches (812.8 mm and 914.4 mm). The conveyor belt must extend beyond the tunnel opening by a minimum of or 24 inches (61 cm) at both ends of the tunnel. The conveyor belt must be welded or zippered.

5.3 Tunnel size opening

Tunnel size opening must have a width of a minimum 850 mm (33.5") to a maximum of 1050 mm (41.3") and a height of a minimum 850 mm (33.5") to a maximum of 1050 mm (41.3").

5.4 Conveyor speed

Conveyor speed must be a minimum of 0.20 m/s (.66 ft/s) in either direction $\pm 10\%$. The conveyor system must be capable of continuous operation.

5.5 Conveyor motor

The conveyor motor must be a sealed drum, maintenance free for life.

5.6 Conveyor system design

A heavy duty conveyor system and belt is mandatory. The conveyor system must be a balanced, driven design to minimize the problems associated with belt tracking in both directions. The conveyor system must track properly in both directions under all load conditions. Goods under examination can be warm, cold or frozen. The goods may be centered on the conveyor belt or off to one side. The design of the conveyor system must be such that the effects of dirt, small debris and minor liquid spills from the goods under inspection, do not adversely affect the belt tracking or the conveyor speed. Dirt and debris from inspected goods must not be able to collect in sensitive areas. Dirt collection trays must be strategically located to capture debris. Operators must be able to empty these collection trays without the use of tools. There must be no unnecessary openings between the tunnel and the electronics compartment to minimize the transfer of dirt.

5.7 Conveyor safety extension

As per Health Canada regulations, there must be a permanent stainless steel shroud (safety extension) installed at each end of the tunnel to prevent users from inserting any part of their body into the tunnel when the x-rays are energized. The safety extensions must have slots on the operator side big enough in order for the BSO to be able to see the tunnel entrance from a 90 degree angle. It must also be small enough so that the BSO can't introduce their limb into the tunnel.

5.8 Roller Assembly

The exit conveyor extension must employ passive rollers assembly. Passive rollers must be made of food grade stainless steel and of a brand commonly found in the commercial market in North America. Roller assembly extensions must be free of sharp edges that might damage the parcels and be a safety hazard to the BSO. Each passive roller assembly must be supported at its outside end by a heavy duty leg system that attaches to the X-Ray system roller extensions. The height extensions must be adjustable to adapt them to the requirements of the operating area. The leg system must be locked to the extensions using locking pins. These pins must be attached to the machine with small chain or wire to prevent misplacement. The gap between the motorized main conveyor and the roller assembly must present minimal risk to operators for the entrapment of clothing and limbs and for any parcels that might be trapped going through the transfer between the tunnel system and the extension system. A safety removable roller must be installed as the first roller of the exit extension against the main conveyor. This roller must be retained to the extension frame with small steel wires.

6 Software, Computer and Monitor Requirements

6.1 Processor

Computer processing speed must be minimum Intel Pentium 3.0 GHz processor or equivalent.

6.2 RAM

Flash memory must be: 512 MB minimum.

6.3 USB Port and CD Drive

A USB port (2.0 or 3.0 backward compatible to 2.0) is required. Must have a CD (or DVD) RW drive (could be remotely located).

6.4 Hard Drive

Hard disk drive must be: 100 GB minimum of storage memory (could be remotely located). The system's computer hard drives must be protected to prevent damage caused by operation outside the drive's safe operating temperature range.

6.5 Monitor

LCD monitor 19" (or larger) must be a minimum 1280 x 1024 high resolution, flicker free monitor.

6.6 Software

All software must be provided to CBSA for installation on system hardware. The system's application software must enable the operator the choice to work in either French or English. It must be possible to toggle easily between languages (i.e., via a language icon on the operator screen) without loss of work.

6.7 Boot Image

A bootable image disk for rebuilding computer and server hard drives must be provided to CBSA.

6.8 Software Licenses

Each system must be accompanied with the software and a minimum of three (3) licenses for remote image analysis (apart from those already on the system workstations), which may be installed on CBSA computers.

6.9 Software Updates

The contractor must provide all software updates to the purchaser for a period of ten (10) year(s) following the acceptance, at no additional cost. The word "updates" means all patches, extensions or other modifications to the software necessary to maintain or achieve the advertised performance and informational security of the system.

6.10 Data Management

CBSA must be granted "Administrator" rights to the system. Data management system must allow the user to save, archive, organize and share X-ray images. This data management system must allow for local storage of data (hard drive) and for remote access of data via network through a file share (potential future implementation of networking solution will be done by the CBSA). All networked systems must be IPv4 and IPv6 compatible.

7 Maintenance and Reliability Requirements**7.1 Availability for Scanning Operations**

The supplied system must be available for operation for a minimum of 97.66% of the time; given the following model:

$$A = \frac{MTBF}{MTBF + MTTR}$$

Where:

A = System availability

MTBF = Mean Time Between Failures

MTTR = Mean Time To Repair

7.2 Meant Time Between Failures

The system must have a MTBF of no less than 1000 hours under normal (16 hours/day, 7 days/wk, 52 weeks/y) and/or concentrated (24 hours/day, 7days/wk, 2 weeks consecutively) operations.

7.3 Mean Time to Repair

The Mean Time to Repair, defined as the total time from notification of repair requirement to system ready status, must not exceed 24 hours. The MTTR includes all diagnostic activities. Purchase of the

Solicitation No. - N° de l'invitation

47064-146977/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

pv924

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

1000316977

File No. - N° du dossier

pv92447064-146977

CCC No./N° CCC - FMS No/ N° VME

system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system.

7.4 Parts availability

Since the CBSA normally performs its own maintenance, it is important that services and components employed in the configuration of the equipment be readily available in regional markets where the CBSA operates.

There may be unique and proprietary parts, however it is required that the CBSA be able to source a significant percentage of general components from within the regional markets where the CBSA operates or has relatively easy access to.

- a) Access to parts supplied by the manufacturer must not require any additional service contract.
- b) The contractor must be able to supply lower cost parts (\$5,000.00 or less) to the CBSA by means of Master Card and Visa Card as a procurement method.
- c) Parts and components must be readily available from the manufacturer for a minimum of 10 years from the date of delivery.

ANNEX "B" – MANDATORY SPECIFICATIONS

The supplied equipment must meet or exceed all of the specifications listed below. Systems failing to meet all of the following specifications will be considered non-compliant.

The Bidder must clearly demonstrate how each of the Mandatory X-ray Imaging Specifications is satisfied by submission of the information requested in the associated Data Item Description (DID) documents.

Failure to submit any of the requested information, or failure to do so in the requested format will result in the Bid being deemed non-compliant. By submission of a Bid, the Bidder agrees to provide all future information requested in the DIDs, according to the schedule defined therein.

Item	Description	Data Item Description (DID) Document
B1 – Simple Penetration	<p>The inspection system must provide a minimum simple penetration of 22 mm. of steel according to the test procedures outlined in ANSI N42.44-2008. This penetration must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p> <p><i>This requirement will be further evaluated on a point based system according to Point Rated Technical Criteria - Annex "C".</i></p>	DID 001 – X-ray system performance testing report
B2 - Spatial Resolution	<p>As per the test procedures outlined in ANSI N42.44-2008;</p> <p>a) The spatial resolution in the Vertical direction must be 1.6 mm.</p> <p>b) The spatial resolution in the Horizontal direction must be 1.6 mm.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p> <p><i>This requirement will be further evaluated on a point based system according to Point Rated Technical Criteria - Annex "C".</i></p>	DID 001 – X-ray system performance testing report
B3 - Wire Detection	<p>As per the test procedures outlined in ANSI N42.44-2008. The size of the minimum observable wire size must be:</p> <p>a) 32 AWG with no shielding b) 30 AWG under 9.5 mm of aluminium c) 24 AWG under 15.9 mm of aluminium d) 24 AWG under 22.2 mm of aluminium</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>	DID 001 – X-ray system performance testing report

	<i>This requirement will be further evaluated on a point based system according to Point Rated Technical Criteria - Annex "C".</i>	
B4 – Thin Organic Imaging	<p>As per the test procedures outlined in ANSI N42.44-2008, the X-ray system must be able to;</p> <p>a) distinguish 1 mm and 3 mm thick organic materials b) distinguish 3 mm and 5 mm thick organic materials</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>	<i>DID 001</i> – X-ray system performance testing report
B5 - Inorganic/Organic Differentiation	<p>The steel and plastic samples must appear in a distinct shade or colour according to the test procedures outlined in ANSI N42.44-2008.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>	<i>DID 001</i> – X-ray system performance testing report
B6 - Organic Differentiation	<p>PVC and XM plastic samples must appear in a distinct shade or colour according to the test procedures outlined in ANSI N42.44-2008.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>	<i>DID 001</i> – X-ray system performance testing report
B7 – Useful Organic Differentiation	<p>PVC and XM plastic samples under 1.6 mm of steel must appear in a distinct shade or colour according to the test procedures outlined in ANSI N42.44-2008.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>	<i>DID 001</i> – X-ray system performance testing report
B8 – Image Quality Indicators (IQI) Sensitivity	<p>This imaging performance check is directly modeled after that used in ASTM F792-01e2 (Standard Practice for Evaluating the Imaging Performance of Security X-Ray Systems) referenced in the ANSI N42.44-2008 standard. The X-ray system must be capable of achieving the following minimum scores: 4T-4, 2T-4 in Delrin (plastic).</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p> <p><i>This requirement will be further evaluated on a point based system according to Point Rated Technical Criteria - Annex "C".</i></p>	<i>DID 001</i> – X-ray system performance testing report

ANNEX "C" - POINT RATED TECHNICAL CRITERIA:

CBSA will evaluate the technical merit of the rated requirements, according to the following matrix.

Item	Description	Systems' Result (bidder to complete)	Min Pts	Max Pts	Point Breakdown
B1- Simple Penetration	The inspection system must provide a minimum simple penetration of 22 mm. of steel according to the test procedures outlined in ANSI N42.44-2008. This penetration must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.	_____mm	3	6	14mm = Non-compliant 18mm = Non-compliant 22mm = 3pts 26mm = 4pts 30mm = 5pts 34mm = 6pts
B2 - Spatial Resolution	a) As per the test procedures outlined in ANSI N42.44-2008. The spatial resolution in the Vertical direction must be 1.6 mm This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements. b) As per the test procedures outlined in ANSI N42.44-2008. The spatial resolution in the Horizontal direction must be 1.6 mm This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.	_____mm	2	4	2.0 mm = Non-compliant 1.6 mm = 2 pts 1.3 mm = 3pts 1.0 mm = 4pts
		_____mm	2	4	2.0 mm = Non-compliant 1.6 mm = 2 pts 1.3 mm = 3pts 1.0 mm = 4pts

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B3 - Wire Detection		_____AWG	3	5	24AWG = Non-compliant 30AWG = Non-compliant 32AWG = 3pts 36AWG = 4pts 40AWG = 5pts
<p>a) As per the test procedures outlined in ANSI N42.44-2008. The size of the minimum observable wire size must be 32 AWG with no shielding.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>					24AWG = Non-compliant 30AWG = Non-compliant 32AWG = 3pts 36AWG = 4pts 40AWG = 5pts
<p>b) As per the test procedures outlined in ANSI N42.44-2008. The size of the minimum observable wire size must be 30 AWG under 9.5 mm of aluminium.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>		_____AWG	2	5	24AWG = Non-compliant 30AWG = 2pts 32AWG = 3pts 36AWG = 4pts 40AWG = 5pts
<p>c) As per the test procedures outlined in ANSI N42.44-2008. The size of the minimum observable wire size must be 24 AWG under 15.9 mm of aluminium.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>		_____AWG	1	5	Less than 24AWG = Non-compliant 24AWG = 1pts, 30AWG = 2pts, 32AWG = 3pts, 36AWG = 4pts, 40AWG = 5pts
<p>d) As per the test procedures outlined in ANSI N42.44-2008. The size of the minimum observable wire size must be 24 AWG under 22.2 mm of aluminium.</p> <p>This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements.</p>		_____AWG	1	5	Less than 24AWG = Non-compliant 24AWG = 1pts, 30AWG = 2pts, 32AWG = 3pts, 36AWG = 4pts, 40AWG = 5pts

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<p>B8 – Image Quality Indicators (IQI) Sensitivity (smallest discerned)</p>				
<p>This imaging performance check is directly modeled after that used in ASTM F792-01e2 (Standard Practice for Evaluating the Imaging Performance of Security X-Ray Systems) referenced in the ANSI N42.44-2008 standard. The X-ray system must be capable of achieving the following minimum scores:4T-4, 2T-4 in Delrin (plastic). This must be achieved with a scanning speed of at least 0.2 meters/second and with source emission levels set to satisfy all radiation safety requirements</p>				
<p>Delrin (plastic) 4T</p>	1	4	Nothing visible = Non-compliant 4 = 1pt 3 = 2pts 2 = 3pts 1 = 4pts	
<p>Delrin (plastic) 2T</p>	1	4	Nothing visible = Non-compliant 4 = 1pt 3 = 2pts 2 = 3pts 1 = 4pts	
<p>Delrin (plastic) 1T</p>	0	4	Nothing visible = 0 pts 4 = 1pt 3 = 2pts 2 = 3pts 1 = 4pts	
<p>Steel 4T</p>	0	5	Nothing visible = 0 pts 5 = 1pt 4 = 2pts 3 = 3pts 2 = 4pts 1 = 5pts	
<p>Steel 2T</p>	0	5	Nothing visible = 0 pts 5 = 1pt 4 = 2pts 3 = 3pts 2 = 4pts 1 = 5pts	

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Steel 1T		0	5	Nothing visible = 0pts, 5 = 1pt 4 = 2pts 3 = 3pts 2 = 4pts 1 = 5pts
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ANNEX "D" – BASIS OF PAYMENT

Pricing Basis:

- a) bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
- b) bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
- c) Prices will be evaluated on a FOB Destination.

PRICING:

1. PRICING FOR MOBILE X-RAY IMAGING VEHICLE SYSTEMS (*Bidder to complete*)

This requirement is for the purchase of 10 mobile X-ray vehicle systems for the CBSA examination of baggage and freight at the international airports and other facilities across Canada.

Additional details and delivery location	Unit Price \$	The best delivery that could be offered by the Bidder
LBPIA Air Cargo - GTA		
P.E. Trudeau Airport – QUE		
Vancouver ASEO – PAC		
Cornwall - NOR		
Ft. Erie Traffic - SOR		
Halifax Airport - ATL		
Aldergrove Traffic - PAC		
Emerson Traffic – PRA		
St. Stephen, NB – ATL		
Calgary airport – PRA		

2. PRICING BASIS FOR OPTIONAL REQUIREMENTS (*Bidder to complete*)

2.1 **Optional Requirements**

2.1.1 Additional up to 20 mobile X-ray vehicle systems. If Bidder is unable or unwilling to offer additional quantities he will be deemed non-compliant.

Pricing if purchased during option Year 1

From April 1, 2014 to March 31, 2015

Details	Unit Price \$
Units to be delivered to various CBSA locations across Canada	

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Pricing if purchased during option Year 2

From April 1, 2015 to March 31, 2016

Details	Unit Price \$
Units to be delivered to various CBSA locations across Canada	

3. PRICING FOR CBSA REQUIRED OPTIONS (Bidder to complete)

If the Bidder is unable or unwilling to offer one of the CBSA required Options the bid will be deemed non-compliant.

3.1 CBSA Required Options

3.1.1 Training Options

Item	Description	Price
3.1.1.1 Additional Operator Training Courses	The Bidder commits to offer additional operator training courses (for up to 15 operators per course) to be delivered on an as needed basis for no less than five (5) years after initial delivery. This option will be available to CBSA at a fixed price (per operator) for 3 years from date of contract award. Note: Pricing is the to be submitted as cost per operator based on a course for a minimum of 10 up to a maximum of 15 operators.	\$ _____ per operator
3.1.1.2 Technical Training	The Bidder commits to offer technical training course(s) (for up to 10 CBSA technicians) on an as needed basis for up to 7 years. This course must address all diagnostic, replacement, adjustment and calibration aspects of the system and must enable CBSA to be the primary maintenance provider for its procured systems. This option will be available to CBSA at a fixed price (per technician) for 3 years from date of contract award. Note: Pricing is to be submitted as cost per technician based on a maximum of 10 technicians total, in groups of 2 to 5.	\$ _____ per technician

3.1.2 Warranty and Maintenance Options

Item	Description	Price
3.1.2.1 Warranty Extension	The Bidder must provide the cost per year for CBSA to extend the initial all-inclusive 2 year warranty, on an annual basis, for the subsequent three (3) years.	Year 1 & 2: included in system price Year 3: \$ _____

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		Year 4: \$ _____ Year 5: \$ _____
3.1.2.2 Service After Warranty	The Bidder commits to offer CBSA a service contract to maintain the systems after the expiry of the elected warranty period. The service contract must be offered on an annual basis, for no less than ten (10) years after initial delivery. Signature of authorized representative: _____ Date: _____	

3.1.3 Software Options

Item	Description	Price
3.1.3.1 Additional Licenses	The Bidder must provide the cost for additional licenses to install and operate the image analysis software (necessary for remote viewing and analysis of the scanned image and operator notes).	For a single enterprise license (for installation anywhere within the Agency and use by up to 100 people). \$ _____

TOTAL AGGREGATE BID PRICE will be calculated by adding all of the above pricing

ANNEX "E" – DATA ITEM DESCRIPTION SHEETS (DID)

The following information is requested as part of the procurement process; failure to deliver this information in the format or according to the defined schedule will result in a bid being considered non-compliant.

TITLE	X-Ray System Performance Testing Report
DID NUMBER	DID 001
DESCRIPTION / PURPOSE	To validate the Bidder's claims regarding the system's performance, and to enable CBSA to complete the Evaluation Matrix of the Technical Bid Evaluation.
SUBMISSION DATE	Must be submitted with Technical Bid for evaluation
INSTRUCTIONS – Format	<p>The Bidder must provide an X-Ray System Performance Report. This report must be formatted accordingly:</p> <ul style="list-style-type: none"> -Title page (with DID No, Title, Author, Date) -Table of Contents -Page numbers -Figure and Table numbers <p>Hard copies of all documents must be provided and soft copies (searchable PDF format) are requested at the time of submission.</p>
INSTRUCTIONS – Content	<p>The following information, at a minimum, must be provided in the Detector Performance Report. The report should be sectioned accordingly:</p> <p>A. Testing Report</p> <p>The Bidder must conduct, and report on, a formal system performance test done with a system of the same model proposed for purchase by the Government of Canada. Results of previous tests may be used if they comply with the requirements below.</p> <p>The testing will be done according to the procedures defined in the ANSI N42.44-2008 standard, and must clearly evaluate the following aspects:</p> <ul style="list-style-type: none"> · performance · exposure measurement in a single scan <ul style="list-style-type: none"> oMaximum exposure oRoutine exposure · imaging system performance <ul style="list-style-type: none"> oSimple penetration oSpatial resolution oWire detection oThin organic Imaging oInorganic/organic differentiation oOrganic differentiation oUseful organic differentiation oIQI sensitivity <p>The Bidder is recommended to follow the format of the Annex A found in the ANSI N42.44-2008 standard.</p> <p>B. Additional Information</p> <p>The Bidder may submit any additional technical information they deem to be pertinent, such as (but not limited to) additional test results, third party reports, or scientific publications related to the proposed instrument.</p>

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TITLE	Operator's Manuals
DID NUMBER	DID 002
DESCRIPTION / PURPOSE	To provide the Operator's Manuals.
SUBMISSION DATE	Submission of Operator's Manuals – within 30 days following contract award
INSTRUCTIONS - Format	Both French and English versions of the Operator's Manual must be supplied in electronic form (searchable .pdf format) to the CBSA's Ottawa-based Detection Technology Section (DTS). Hard copies of the Operator's Manuals (in both French and English) must be included with each X-ray system delivered. These must use standard terminology, be logically sectioned and all figures and tables must be properly referenced.
INSTRUCTIONS- Content	Operator Manuals must clearly detail, but not be limited to: A. Radiation Safety -ALARA -the radiation safety system -precautionary measures to be followed B. Scanning Operations -system setup and deployment -initiating and conducting scans -stopping a scan (including emergency situations) C. Scanning Operations -image analysis tools -representative examples -importing/exporting capabilities D. Troubleshooting -how to troubleshoot operational difficulties with the system E. Preventative Maintenance -how to conduct simple preventative maintenance

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TITLE	Technical Manuals
DID NUMBER	DID 003
DESCRIPTION / PURPOSE	To provide the Technical Manuals.
SUBMISSION DATE	Submission of Technical Manuals – within 30 days following contract award
INSTRUCTIONS - Format	Both French and English versions of the Technical Manual must be supplied in electronic form (searchable .pdf format) to the CBSA's Ottawa-based Detection Technology Section (DTS). These must use standard terminology, be logically sectioned and all figures and tables must be properly referenced.
INSTRUCTIONS- Content	Technical manuals must accurately represent the supplied X-ray systems, and must clearly detail, but not be limited to: a) theory of operation, functional descriptions, text, photographs, and schematic diagrams (all figures and tables must be properly labeled and referenced to the text and there must be consistency in the use of terms); b) network and computing architecture of the system, along with all passwords and access requirements to accommodate CBSA defined operations; c) sufficient detail so as to enable maintenance on the device by trained CBSA personnel, including troubleshooting information and use of the diagnostic systems; d) schedules of recommended preventive maintenance and replacement instructions for commonly replaced parts.

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TITLE	Operator Training
DID NUMBER	DID 004
DESCRIPTION / PURPOSE	To provide information relating to the training curriculum for the procured X-ray system.
SUBMISSION DATE	Submission of Operator's Training Outline – within 30 days following contract award
INSTRUCTIONS - Format	
INSTRUCTIONS-Content	<p>Operator Training must be comprehensive and must include (but not be limited to) detailed instructions on:</p> <p>A. Radiation and safety -basic principles of radiation safety and potential hazards of the X-ray system</p> <p>B. System Operations -setup of the X-ray system -conducting and concluding scanning operations -troubleshooting common problems</p> <p>C. Scan and Informational Analysis -identifying anomalies -using the image analysis toolbox -annotating images -importing and exporting files -practice and student testing with real scan images/data</p> <p>All Training Materials, including but not limited to manuals and presentations, must be provided to CBSA in both French and English for review prior to course delivery. Training Materials must be provided with course delivery.</p>

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ANNEX "F" - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: _____(YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act*.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
 - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)