



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Réception des soumissions - TPSGC / Bid
Receiving - PWGSC
1550 Avenue d'Estimauville
1550 D'Estimauville Avenue
Québec
Québec
G1J 0C7

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 Flash X-Ray Digital System	
Solicitation No. - N° de l'invitation W7701-166066/A	Date 2015-11-09
Client Reference No. - N° de référence du client W7701-166066	
GETS Reference No. - N° de référence de SEAG PW-\$QCW-026-16600	
File No. - N° de dossier QCW-5-38063 (026)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-12-21	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
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: Perron, Jonathan	Buyer Id - Id de l'acheteur qcw026
Telephone No. - N° de téléphone (418) 649-2838 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: RDDC-R ET D DÉFENSE CANADA VALCARTIER DRDC-DEFENCE R 7 D CANADA VALCARTIE BÂTISSE 53 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J1X5 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

TPSGC - PWGSC
601 - 1550 Avenue d'Estimauville
Québec
Québec
G1J 0C7

Delivery Required - Livraison exigée VOIR DOC	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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TITLE: DRDC - FLASH X-RAY DIGITAL SYSTEM

PART 1 - GENERAL INFORMATION

1.1 Requirement

Defence Research and Development Canada - Valcartier (DRDC) - Munitions Experimental Test Center (METC) has a requirement for the supply and delivery of one (1) Flash x-Ray digital system, commercially available, in accordance with the technical specifications described at **Annex A – Requirement**.

1.2 Debriefings

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

1.3 Trade Agreements

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<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 \(03-07-2015\)](#) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

[Condition of Material - Bid \(2014-06-26\) B1000T](#)
[Electrical Equipment \(2006-06-16\) B1501C](#)

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority: jonathan.perron@tpsgc-pwgsc.gc.ca **no later than seven (7) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, bidders must explain and demonstrate how they propose to meet the requirements detailed at **Annex A - Requirement**. Bidders should fill out the **Annex C - Table of mandatory technical evaluation criteria**.

Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words “must” or “mandatory” is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

4.1.1.1 Mandatory Technical Criteria

- a) The bidder must include with its proposal the datasheets of the products offered.
- b) **Although the bidders must proposed products that meet all the specifications described in the Annex A**, at the closure date, bids will be evaluated on the following technical requirements at **Annex C - Table of mandatory technical evaluation criteria**.

IMPORTANT: The bidder should indicate, for each mandatory criteria, whether the proposed equipment complies or not by checking the relevant box. **The bidder must clearly demonstrate how the proposed equipment complies to each mandatory technical criteria at annex C. Simply stating that the criteria are met is not sufficient.** Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the “Mandatory Technical Criteria” table (Annex C) will be considered non-responsive.

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T \(26-06-2014\)](#), Evaluation of Price. The bidder must fill out and include with its proposal the **Annex B - Basis of Payment**.

4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation including the **Annex A - Requirement** and meet all mandatory technical evaluation criteria of the **Annex C** 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 associated information to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

5.1.1 Integrity Provisions - Associated Information

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

5.1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

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

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A \(03-09-2015\)](#), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

[Hardware Purchase, Lease and Maintenance \(2015-04-01\) 4001](#) apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the contract is the contract award date, until the ending date of the warranty, inclusively.

6.4.2 Delivery Date and Location

All the deliverables must be received no later than **8 weeks after contract award**.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Jonathan Perron

Title: Supply Specialist

Public Works and Government Services Canada

Acquisitions Branch

Address: 1550, av d'Estimauville

Quebec, Quebec, G1J 0C7

Telephone: 418-649-2838

Facsimile: 418-648-2209

E-mail address: jonathan.perron@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.

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6.5.2 Technical Authority

The Technical Authority for the Contract is:

(Will be completed by Canada at the time of award)

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

General enquiries:

Name: _____
Title: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

Delivery follow-up:

Name: _____
Title: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified at **Annex B** for a cost of \$ _____ (*insert the amount at contract award*). FOB Destination, Customs duties are included and Applicable Taxes are extra.

6.6.2 Single Payment

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

6.7 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.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification

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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.

6.9 Applicable Laws

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

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) 2010A (03-09-2015), General Conditions - Goods (Medium Complexity)
- (c) [Hardware Purchase, Lease and Maintenance \(2015-04-01\) 4001](#), Supplemental General Conditions
- (d) Annex A, Statement of Requirement;
- (e) Annex B, Basis of Payment
- (f) the Contractor's bid dated _____ (*insert date of bid*)

6.11 SACC Manual Clauses

[Excess Goods \(2006-06-16\) B7500C](#)
[Insurance \(2008-05-12\) G1005C](#)

6.12 Inspection and Acceptance

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

6.13 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP):

Defence Research and Development Canada (DRDC)
Centre d'essais et d'expérimentation en munitions (CEEM)
Munitions Experimental Test Center (METC)
2459, route de la Bravoure, building 243,
Québec, Québec, Canada,
G3J 1X5

Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A" – REQUIREMENT

1. **TITLE**

FLASH X-RAY DIGITAL SYSTEM

2. **BACKGROUND**

The Munitions Experimental Test Center (METC) of Defence Research and Development Canada (DRDC) is mandated to capture data on a wide variety of munition experiments. Most of them generate intense lighting, smoke or fragments that prevent traditional cameras to see the event. In order to see through those things, we use flash x-ray systems.

Presently we use x-ray films to capture images. That means travel from the test site to the radiography laboratory in order to develop the films and see our results. Those films are expensive, will be no longer available in a near future, need the use of film development chemicals, take space for archiving, and need a scanner to digitize when we need to make measurements.

A digital computed system will eliminate the need for processing with chemicals, will solve the archiving problems, will eliminate the loss of time traveling between the lab and the test site and will permit to have the results rapidly and directly at the test site.

3. **ACRONYMS**

AD	Applicable Document
DRDC	Defence Research and Development Canada
CEEM	Centre d'essais et d'expérimentation en munitions
METC	Munitions Experimental Test Center
BPP	bits per Pixel
Kv	Kilovolts
Ns	Nanoseconde
V	Volt
Hz	Hertz
MP	Megapixel
Jpg	Format d'images Jpeg (Joint photographic experts group)
µm	Micrometer
pmt	Photomultiplier voltage
GFE	Government Furnished Equipment
GSM	Government Supplied Materiel
SOR	Statement of Requirement
TA	Technical Authority

4. REQUIREMENTS

Minimal mandatory technical requirements:

The Contractor must provide the requirements with the technical specifications described at point 4.1 and 4.2:

4.1 Flash X-Ray Digital System

Required quantity: 1 flash x-ray digital system as per the following technical specifications:

Specifications
4.1.1- The system must be commercially available
4.1.2- The system must include a scanner for images plates of 14''X36'', 14'' X 17'' and 14'' x 51''
4.1.3- The system must include a plate eraser for images plates of 14''X36'', 14'' X 17'' and 14'' x 51''
4.1.4- The image plates must be sensitive to be used with a flash X-Ray pulse of 300 Kv or less, for a duration of 100ns or less.
4.1.5- The system must work on standard 120v, 60Hz North America power.
4.1.6- The system must include the control software
4.1.7- The system must include the control computer
4.1.8- The system must include, a high resolution 19-inches monitor, minimum, and 3MP or more.
4.1.9- The system must be able to save images in jpg format
4.1.10- The system must be compatible with Windows 7 or later version
4.1.11- The system must not require a dark room to scan image plates
4.1.12- The minimal intensity resolution must be 16 bits per pixel
4.1.13- The laser spot must be less than or equal to 20µm
4.1.14- The control software must permit the images acquisition, to control the spatial resolution and laser pmt voltage.
4.1.15- The software must have image tools including; contrast, brightness, zoom, mirror and save.
4.1.16- The minimal scanner sensitivity must be of 16 bits grey level
4.1.17- The control computer must have a 500GB hard drive minimum.
4.1.18- The computer must have a minimum of 6GB of ram.

4.2 Accessories

The Contractor must provide the following accessories for requirement item 4.1:

Description	Required quantity
The system must include reusable image plates - 14'' X 36''	4
The system must include reusable image plates - 14'' X 17''	2

5. DELIVERABLES

5.1 Deliverables for requirement 4.1: Flash X-ray digital system

The contractor must deliver a quantity of 1 flash x-ray digital system including all technical specifications at 4.1.

5.2 Deliverables for requirement 4.2: Accessories

The contractor must deliver all accessories as described in requirement 4.2.

6. DATE OF DELIVERY

All the deliverables must be received no later than 8 weeks after contract award.

7. LANGUAGE OF WORK

English

8. DELIVERY LOCATION

Defence Research and Development Canada (DRDC)
Centre d'essais et d'expérimentation en munitions (CEEM)
Munitions Experimental Test Center (METC)
2459, route de la Bravoure, building 243,
Québec, Québec, Canada,
G3J 1X5

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ANNEX "B" - BASIS OF PAYMENT

** For Evaluation*

Item	Description	Quantity	Unit Price (CAD)	Extended Price(CAD)
1	Must deliver one (1) Flash X-Ray digital system in accordance with the technical specifications detailed on point 4.1 at Annex A.	1	\$ _____	\$ _____
2	Must deliver accessories in accordance with the technical specifications detailed on point 4.2 at Annex A. a) reusable image plates - 14" X 36" b) reusable image plates - 14" X 17"	4 2	\$ _____ \$ _____	\$ _____ \$ _____
3	Delivery -DDP (DRDC-METC, Quebec), including all custom duties, handling and transportation.	1	\$ _____	\$ _____
*TOTAL(CAD) (excluding applicable taxes)				\$ _____
<i>*Firm prices, all inclusive, in Canadian funds, FOB destination to DRDC, Quebec. Prices include Canadian customs duties and Applicable Taxes extra.</i>				

ANNEX "C" - MANDATORY TECHNICAL REQUIREMENTS EVALUATION TABLE

The bidder must include with its proposal the datasheets of the products offered.

Although the bidders must proposed products that meet all the specifications described in the Annex A, at the closure date, bids will be evaluated on the following technical requirements at Annex C - Table of mandatory technical evaluation criteria.

IMPORTANT: The bidder should indicate, for each mandatory criteria, whether the proposed equipment complies or not by checking the relevant box. **The bidder must clearly demonstrate how the proposed equipment complies to each mandatory technical criteria. Simply stating that the criteria are met is not sufficient.** Where it is necessary to refer to other documentation that is included in the proposal, bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the "Mandatory Technical Criteria" table will be considered non-responsive.

	Mandatory Technical Criteria The equipments must be "compliant" with all the technical specifications described below:	Compliant	Non-Compliant	Reference
MC1	The system must include a scanner for images plates of 14"X36", 14" X 17" and 14" x 51"			
MC2	The system must include a plate eraser for images plates of 14"X36", 14" X 17" and 14" x 51"			
MC3	The image plates must be sensitive to be used with a flash X-Ray pulse of 300 Kv or less, for a duration of 100ns or less.			
MC4	The system must work on standard 120v, 60Hz North America power.			
MC5	The system must include the control software			
MC6	The system must include the control computer			
MC7	The system must include, a high resolution 19-inches monitor, minimum, and 3MP or more.			
MC8	The system must be able to save images in jpg format			
MC9	The system must be compatible with Windows 7 or later version			
MC10	The system must not require a dark room to scan image plates			
MC11	The minimal intensity resolution must be 16 bits per pixel			
MC12	The laser spot must be less than or equal to 20µm			
MC13	The control software must permit the images acquisition, to control the spatial resolution and laser pmt voltage.			

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	Mandatory Technical Criteria The equipments <u>must</u> be "compliant" with all the technical specifications described below:	Compliant	Non-Compliant	Reference
MC14	The software must have image tools including; contrast, brightness, zoom, mirror and save.			
MC15	The minimal scanner sensitivity must be of 16 bits grey level			
MC16	The control computer must have a 500GB hard drive minimum.			
MC17	The computer must have a minimum of 6GB of ram.			