



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet Signal Generator DND (FMFCS) has a requirement for 2 Signal Generators, and related equipment.	
Solicitation No. - N° de l'invitation W355B-215215/A	Date 2021-08-03
Client Reference No. - N° de référence du client W355B-21-5215	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-208-11336	
File No. - N° de dossier HAL-1-87029 (208)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Atlantic Daylight Saving Time ADT on - le 2021-08-26 Heure Avancée de l'Atlantique HAA	
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: LeBlanc, JoAnne	Buyer Id - Id de l'acheteur hal208
Telephone No. - N° de téléphone (902) 225-6730 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CP01 FMF CAPE SCOTT HMC DOCKYARD MARITIME FORCES ATLANTIC DOOR 13 BLDG D-200 HALIFAX NOVA SCOTIA B3K5X5 CANADA	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scot
B3J 1T3

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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

1.1 Security Requirements

There are no security requirements associated with this procurement.

1.2 Statement of Requirement

The requirement is detailed under Annex A – Statement of Requirement, attached herein.

1.3 Debriefings

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

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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 \(2020-05-28\)](#) 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: 60 days

Insert: 90 days

2.2 Submission of Bids

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

Bid Receiving Public Works and Government Services Canada / Réception des soumissions
Travaux publics et services gouvernementaux
1713 Bedford Row
Halifax, NS B3J 1T3

Email for epost Connect:

TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Facsimile number: (902) 496-5016

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **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 Nova Scotia.

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

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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 hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573). 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 bid, the Bidder should indicate how they meet the requirement as outlined in Annex A – Statement of Requirement.

Section II: Financial Bid

The bidder should submit their financial bid in accordance with the **Annex B – Basis of Payment**, herein.

3.1.1 Electronic Payment of Invoices – Bid

(TO BE COMPLETED BY CONTRACTOR, IF/WHERE APPLICABLE)

If you are willing to accept payment of invoices by Electronic Payment Instruments, please refer to the below list of Electronic Payment Instruments, and identify which ones are accepted.

If the Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- () VISA Acquisition Card;
- () MasterCard Acquisition Card;
- () Direct Deposit (Domestic and International);
- () Electronic Data Interchange (EDI);

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

3.1.3 SACC Manual Clauses

SACC Manual Clause A7035T (2007-05-25), List of Proposed Subcontractors

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

The bidders should demonstrate in their bids that they fulfil all of the specifications detailed under Annex A – Statement of Requirement, herein.

4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26), Evaluation of Price-Bid

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

4.2 Basis of Selection

4.2.1 Mandatory Technical Criteria

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

Bidders should also refer to Annex C – Statement of Requirement – Cross References

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, 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 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 will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process. **The Bidder should complete Annex D, attached herein.**

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information 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 provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-) (<http://www.tpsgc-pwgsc.gc.ca/ci->

if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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 the Contract.

6.2 Statement of Requirement

The requirement is detailed under Annex A – Statement of Requirement, attached herein.

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 \(2020-05-28\)](#), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

A delivery is being requested of 6 weeks from date of contract award.

To be completed by Supplier:

While the delivery at destination is being requested as noted above, the **best available delivery date** that can be offered by the Contractor is ____ (**weeks and/or days**) from date of contract award.

6.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract, **for the purchase of Optional Requirements** as stated under the Annex A, under the same conditions, from **up to one year from receiving the initial equipment**. The Contractor agrees that, during the extended

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W355B-21-5215

Amd. No. - N° de la modif.
File No. - N° du dossier
HAL-1-87029

Buyer ID - Id de l'acheteur
HAL208
CCC No./N° CCC - FMS No./N° VME

period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor prior to the expiry date 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.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: JoAnne K LeBlanc
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row
Halifax, NS B3J 1T3
Cell phone: 902-225-6730
Facsimile: 902-496-5016
E-mail address: joanne.leblanc3@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.

6.5.2 Technical Authority (will be completed at contract award)

The Technical Authority for the Contract is:

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

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 Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Procurement Authority

The Procurement Authority for the Contract is:

Will be completed at Contract award.

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation

of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.4 Contractor's Representative (TO BE COMPLETED BY BIDDER)

Name: _____

Telephone: _____

Email: _____

Procurement Business Number:

Suppliers are required to have a Procurement Business Number (PBN) before contract award. Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.

6.6 Payment

6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

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

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

6.6.3 Method of Payment - Single Payment

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

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2020-05-28) – General conditions: Goods (medium complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert bidder's bid submission date*).

6.11 SACC Manual Clauses

SACC Manual Clause G1005C (2016-01-28), Insurance – No Specific Requirement.

6.12 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

6.13 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and 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.

6.14 Shipping Instructions - Delivery at Destination

The Contractor must ship the goods prepaid DDP – Delivery Duty Paid (... named place of destination). Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance (if applicable), including the payment of customs duties and Applicable Taxes.

The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person identified as the Technical Authority at Contract Award. The consignee may refuse shipments when prior arrangements have not been made.

ANNEX "A" - STATEMENT OF REQUIREMENT

1. GENERAL DESCRIPTION

1.1. The Department of Defence (DND) Fleet Maintenance Facility Cape Scott (FMFCS) has a requirement for the supply of two (2) Signal Generators (N5183B-520), two (2) Step Attenuators (N5183B-1E1), two (2) High Output Power (N5183B-1EA), two (2) Enhanced Low Phase Noise (N5183B-UNY), two (2) Type -N (f) RF Output connectors (N5183B-1ED) and two (2) Front panel covers (N5183B-CVR) as per the purchase description.

2. SPECIFICATIONS

2.1. Microwave Analog Signal Generators, - Qty. (2)

MANDATORY SPECIFICATIONS:

- 2.1.1. **Must** have Frequency range, 9 kHz to 20 GHz
- 2.1.2. **Must** have Frequency reference accuracy (Reference output) amplitude of $\geq +4$ dBm, (nom) into 50 Ω load
- 2.1.3. **Must** have Type -N (f) RF Output connectors
- 2.1.4. **Must** have 5.6 in colour TFT LCD Display for full confidence in settings waveform shape
- 2.1.5. **Must** have Phase offset capable of adjustment in nominal 0.1° increments
- 2.1.6. **Must** have pulse waveform with variable edge times
- 2.1.7. **Must** have AM, FM, PM, Multifunction Generator, Pulse, Pulse Train Generator (PTG)
- 2.1.8. **Must** have Sweep modes, Step sweep and List sweep
- 2.1.9. **Must** have Dual-channel capability
- 2.1.10. **Must** have USB connectivity for storage of waveforms
- 2.1.11. **Must** have LXI Class C compliant USB Version 2.0, GPIB IEEE-488.2, 1987 listen and talk LAN 1000BaseT LAN interface
- 2.1.12. **Must** have a front cover
- 2.1.13. **Must** have traceable calibration certificate standard
- 2.1.14. **Must** have Enhanced low phase noise
- 2.1.15. **Must** have output parameters, settable range of +30 to -135 dB
- 2.1.16. **Must** have Step attenuator Output parameters of 0 to 115dB in 10dB steps Mechanical type

2.2. 115 dB Step Attenuators, - Qty. (2)

MANDATORY SPECIFICATIONS:

- 2.2.1. **Must** have Attenuator hold range -15 dBm to maximum specified output power with step attenuator in 0 dB state; can be offset using mechanical attenuator
- 2.2.2. **Must** have Step attenuator Output parameters of 0 to 115dB in 10dB steps mechanical type
- 2.2.3. **Must** have 3.5SMA male, 50 Ω (nom) connectors
- 2.2.4. **Must** include commercial calibration certificate with test data

2.3. High output power, - Qty. (2)

MANDATORY SPECIFICATIONS:

- 2.3.1. **Must** provide maximum output power of 9kHz to 3.2GHz +23dBm, >3.2 to 13 GHz +20 dBm, 13 to 20 GHz +19 dBm
- 2.3.2. **Must** include commercial calibration certificate with test data

3. Electrical Certification

3.1. The Equipment being supplied must be certified by an acceptable electrical certified organization.
The electrical control **MUST** bear a label from one of these organizations in order to be recognized approved.

- 3.1.1. Canadian Standards Association (CSA),
- 3.1.2. QPS/Entela,
- 3.1.3. Intertek Testing Services,
- 3.1.4. Underwriters Laboratories of Canada (ULC),
- 3.1.5. Underwriters Laboratories Inc. (UL),
- 3.1.6. Met Laboratories Inc. (MET),
- 3.1.7. TUV Rheinland of North America,
- 3.1.8. Quality Auditing Institute (QAI),
- 3.1.9. TUV America Inc.,
- 3.1.10. NSF International,
- 3.1.11. Nemko Canada Inc.
- 3.1.12. Curtis-Straus LLC
- 3.1.13. OTL Omni Test Laboratories
- 3.1.14. FM Approvals LLL

3.2. Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is "field" inspected and labelled by the Canadian Standards Association (CSA), QPS/Entela, Intertek Testing Services, MET Laboratories, TUV America Inc., Underwriters Laboratories of Canada under the Special Inspection Program. **This inspection must take place before equipment delivery to FMF Cape Scott and a copy of verification documentation report must accompany the machine with delivery:**

- 3.2.1. Canadian Standards Association (CSA) C22.2 No. 61010-1-12,
- 3.2.2. QPS/Entela,
- 3.2.3. Intertek Testing Services,
- 3.2.4. Met Laboratories Inc. (MET),
- 3.2.5. TUV America Inc.,
- 3.2.6. Underwriters Laboratories of Canada (ULC).
- 3.2.7. ESA Electrical Safety Authority

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

4. Manufacturer, Model and options:

- 4.1. The equipment supplied must be as follows, or equivalent:
 - 4.1.1. Keysight, model N5183B-520, MXG X-Series Signal Generator,
 - 4.1.2. Keysight, option N5183B-1EA, High Output Power,
 - 4.1.3. Keysight, option N5183B-1E1, Step Attenuator 115dB,
 - 4.1.4. Keysight, option N5183B-UNY, Enhanced Low Phase Noise
 - 4.1.5. Keysight, option N5183B-1ED, Type-N (f) RF Output Connector,
 - 4.1.6. Keysight, option N5183B-CVR, Front Panel Cover

5. Special / Additional Instructions:

- 5.1. **Quotes are to include shipping / delivery costs.**
- 5.2. **Must have a minimum one (1) year warranty.**
- 5.3. Supply owner with two (2) copies of material and maintenance manuals.
- 5.4. Must provide eight (8) hours of training remotely, delivered by Keysight Application Engineers

6. OPTIONAL REQUIREMENTS

- 6.1. The Government of Canada must be able to exercise **an option to purchase** an additional 2 Keysight, model, N5183B-520 with all options as listed in this document **on an as required basis of up to one year from receiving the initial equipment.**

- 6.2. Delivery of optional equipment could be requested to be delivered to either one of the two addresses below:

Central Store Facility, Fleet Maintenance Cape Breton
CFB Esquimalt (Dockyard), Building D250, Door 33
1600 Esquimalt Road, Victoria, BC
V9A 7N2

or

CFB HALIFAX,
Fleet Maintenance Facility Cape Scott
Building D-200, Door 13
Halifax, Nova Scotia
B3K 5X5

ANNEX “B” – BASIS OF PAYMENT

The prices are in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, DDP Incoterms 2000, Canadian Customs Duties Taxes included.

Delivery is Delivery Duty Paid (DDP) Incoterms 2000.

The contractor is responsible for all delivery charges, administration cost and risks of transport and customs clearance, including the payment of customs duties and taxes to the destination.

TABLE A – Firm Requirement

ITEM	U of I	QTY	UNIT PRICE	EXTENDED
Keysight, model N5183B-520, MXG X-Series Signal Generator, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1EA, High Output Power, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1E1, Step Attenuator 115dB, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-UNY, Enhanced Low Phase Noise, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1ED, Type-N (f) RF Output Connector, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, Keysight, option N5183B-CVR, Front Panel Cover, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Eight (8) hours of training remotely	EA	2	\$	\$
TOTAL COST (H.S.T. Extra)				\$

TABLE B – Optional Requirement

ITEM	U of I	QTY	UNIT PRICE	EXTENDED
Keysight, model N5183B-520, MXG X-Series Signal Generator, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1EA, High Output Power, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1E1, Step Attenuator 115dB, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-UNY, Enhanced Low Phase Noise, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, option N5183B-1ED, Type-N (f) RF Output Connector, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Keysight, Keysight, option N5183B-CVR, Front Panel Cover, as fully detailed in Annex A Make and Model:	EA	2	\$	\$
Eight (8) hours of training remotely	EA	2	\$	\$
TOTAL COST (H.S.T. Extra)				\$

Bidders must submit a total firm price, for all items listed above. A financial bid addressing only a portion of the requirement will be declared non-responsive.

For Evaluation Purposes:

Total cost of TABLE A \$ _____ (H.S.T. Extra)

Total cost of TABLE B \$ _____ (H.S.T. Extra)

**TOTAL COST (TABLE A + TABLE B) \$ _____ (HST extra)
(delivery charges included)**

NAME OF BIDDING COMPANY / BIDDER: _____

Date: _____

ANNEX “C” – STATEMENT OF REQUIREMENT – CROSS REFERENCES

Instructions: Bidders should include two (2) copies of descriptive literature; if available, for the item(s) offered in sufficient detail to clearly indicate compliance with each of the individual requirements from the Statement of Requirement (SOR) detailed herein.

Bidders should cross reference the page number and highlight the specification in your technical data sheets or brochure to demonstrate and support your compliance for each of the Mandatory Technical Criteria within the SOR. You may add any comments to support your bid.

It will be to your advantage to furnish as much detail as possible to support your comments and your claims of compliance for each specification.

NOTE: The Crown is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided. Failure to meet any of the following will render your proposal non-compliant and will be given no further consideration.

NO.	SPECIFICATIONS	PAGE NUMBER OR CROSS REFERENCE	COMMENT(S)
2.1.1	Must have Frequency range, 9 kHz to 20 GHz		
2.1.2	Must have Frequency reference accuracy (Reference output) amplitude of $\geq +4$ dBm, (nom) into 50 Ω load		
2.1.3	Must have Type -N (f) RF Output connectors		
2.1.4	Must have 5.6 in colour TFT LCD Display for full confidence in settings waveform shape		
2.1.5	Must have Phase offset capable of adjustment in nominal 0.1° increments		
2.1.6	Must have pulse waveform with variable edge times		
2.1.7	Must have AM, FM, PM, Multifunction Generator, Pulse, PTG		
2.1.8	Must have Sweep modes, Step sweep and List sweep		
2.1.9	Must have Dual-channel capability		
2.1.10	Must have USB connectivity for storage of waveforms		
2.1.11	Must have LXI Class C compliant USB Version 2.0, GPIB IEEE-488.2, 1987 listen and talk LAN 1000BaseT LAN interface		
2.1.12	Must have a front cover		

Solicitation No. - N° de l'invitation
W355B-215215/A
Client Ref. No. - N° de réf. du client
W355B-21-5215

Amd. No. - N° de la modif.
File No. - N° du dossier
HAL-1-87029

Buyer ID - Id de l'acheteur
HAL208
CCC No./N° CCC - FMS No./N° VME

NO.	SPECIFICATIONS	PAGE NUMBER OR CROSS REFERENCE	COMMENT(S)
2.1.13	Must have traceable calibration certificate standard		
2.1.14	Must have Enhanced low phase noise		
2.1.15	Must have output parameters, settable range of +30 to -135 dB		
2.1.16	Must have Step attenuator Output parameters of 0 to 115dB in 10dB steps Mechanical type		
2.2.1	Must have Attenuator hold range -15 dBm to maximum specified output power with step attenuator in 0 dB state; can be offset using mechanical attenuator		
2.2.2	Must have Step attenuator Output parameters of 0 to 115dB in 10dB steps mechanical type		
2.2.3	Must have 3.5SMA male, 50 Ω (nom) connectors		
2.2.4	Must include commercial calibration certificate with test data		
2.3.1	Must provide maximum output power of 9kHz to 3.2GHz +23dBm, >3.2 to 13 GHz +20 dBm, 13 to 20 GHz +19 dBm		
2.3.2	Must include commercial calibration certificate with test data		
3	Electrical Certification		
5.4	Must provide eight (8) hours of training remotely, delivered by Keysight Application Engineers		

ANNEX "D" - INTEGRITY PROVISIONS – LIST OF DIRECTORS

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

2. For a Partnership, General Partnership or Limited Partnership - the names of all current partners;

3. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

4. In the case of a joint venture - For a Joint Venture - the names of all current members of the Joint venture;

5. For an individual - the full name of the person
