



**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 0B2 / Noyau 0B2  
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**

<b>Title - Sujet</b> Receiver Kit	
<b>Solicitation No. - N° de l'invitation</b> U6800-244072/A	<b>Date</b> 2023-10-16
<b>Client Reference No. - N° de référence du client</b> U6800-244072	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-039-29191	
<b>File No. - N° de dossier</b> 039qd.U6800-244072	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> Eastern Daylight Saving Time EDT <b>on - le 2023-10-31</b> Heure Avancée de l'Est HAE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Hussain, Danish	<b>Buyer Id - Id de l'acheteur</b> 039qd
<b>Telephone No. - N° de téléphone</b> (873) 355-4364 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**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**

Defence Communications Division. (QD)  
11 Laurier St./11, rue Laurier  
Place du Portage, Phase III, 8C2  
Gatineau, Québec K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein – Voir ci-inclus	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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U6800-244072/A  
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.  
File No. - N° du dossier  
U6800-244072

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

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**PART 1 - GENERAL INFORMATION****1.1 Security Requirements**

There are no security requirements associated with this requirement.

**1.2 Statement of Requirement**

The requirement is detailed under Article 6.2 of the resulting contract clauses.

**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 Canada Post Corporation's (CPC) Connect service**

"This bid solicitation allows bidders to use the CPC 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."

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## 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](#) (2023-06-08) 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.

Note: For bidders choosing to submit using Canada Post Corporation's (CPC) Connect service for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

[tpsgc.pareceptiondessomissions-apbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca](mailto:tpsgc.pareceptiondessomissions-apbidreceiving.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 a CPC Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through a CPC Connect message if the bidder is using its own licensing agreement for CPC Connect service.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### 2.3 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

## Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the Financial Administration Act, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the Public Service Superannuation Act (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c. C-17, the Defence Services Pension Continuation Act, 1970, c. D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c. R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c. R-11, the Members of Parliament Retiring Allowances Act, R.S. 1985, c. M-5, and that portion of pension payable to the Canada Pension Plan Act, R.S., 1985, c. C-8.

## Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes ( ) No ( )**

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2019-01 and the Guidelines on the Proactive Disclosure of Contracts.

## Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes ( ) No ( )**

If so, the Bidder must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

## 2.4 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.

## 2.5 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.

## 2.6 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 CPC Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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 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 CPC Connect service, the wording of the electronic copy provided through CPC Connect service will have priority over the wording of the other copies.

Due to the nature of the bid solicitation, bids transmitted by facsimile will not be accepted.

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:

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

In order to assist Canada in meeting the objectives of the [Policy on Green Procurement](#) when feasible bidders should prepare and submit their bid as follows:

- Include all environmental certification(s) relevant to your organization (such as ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.).
- Include all third party environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (such as Canadian Standards Association (CSA Group), Underwriters Laboratories (ULSolutions); Forest Stewardship Council (FSC), ENERGYSTAR, etc.).
- Unless otherwise noted, bidders are encouraged to submit bids electronically. If hard copies are required, bidders should:



- 
- a. 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
  - b. 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, duo tangs, spiral binding or binders, and must not contain any single-use plastics.

Canada is committed to achieving net zero greenhouse gas (GHG) emissions by 2050 in an effort to position Canada for success in a green economy and to mitigate climate change impacts. As a result, future solicitations may include the following:

- there may be evaluation criteria or other instructions in the solicitation or contract documents related to measuring and disclosing your company's GHG emissions;
- you may be requested or required to join one of the following initiatives to submit a bid, offer or arrangement or if you are awarded the contract:
  - Canada's Net-Zero Challenge;
  - the United Nations Race to Zero;
  - the Science-based Targets Initiative;
  - the Carbon Disclosure Project;
  - the International Organization for Standardization;
- you may be required to provide other evidence of your company's commitment and actions toward meeting net zero targets by 2050.

#### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment.

##### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "X" Electronic Payment Instruments, to identify which ones are accepted.

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

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**

#### **Section III: Certifications**

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

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## **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 ("technical", "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 Mandatory Technical Criteria are listed in Annex B – Mandatory Requirements

##### **4.1.1.2 Point Rated Technical Criteria**

The Point-Rated Technical Criteria are listed in Annex C – Rated Requirements

#### **4.1.2 Financial Evaluation**

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

### **4.2 Basis of Selection**

1. To be declared responsive, a bid must:
  - a. comply with all the requirements of the bid solicitation;
  - b. meet all mandatory technical evaluation criteria; and
  - c. obtain the required minimum of 0 points for the technical evaluation criteria which are subject to point rating.
2. Bids not meeting (a) or (b) or (c) 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 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 a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

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

		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
<b>Overall Technical Score</b>		115/135	89/135	92/135
<b>Bid Evaluated Price</b>		\$55,000.00	\$50,000.00	\$45,000.00
<b>Calculations</b>	<b>Technical Merit Score</b>	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
	<b>Pricing Score</b>	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
<b>Combined Rating</b>		83.84	75.56	80.89
<b>Overall Rating</b>		1st	3rd	2nd

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## 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.

### 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-if/politique-policy-eng.html) (<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 Security Requirements – Required Documentation

In accordance with the [requirements of the Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>), the Bidder must provide a completed Contract Security Program Application for Registration (AFR) form to be given further consideration in the procurement process.

Bidders are reminded to obtain the required security clearance and, as applicable, security capabilities promptly. As indicated above, bidders who do not provide all the required information at bid closing will be given the opportunity to complete any missing information from the AFR form within a period set by the Contracting Authority. If that information is not provided within the timeframe established by the Contracting Authority (including any extension granted by the Contracting Authority in its discretion), or if Canada requires further information from the bidder in connection with assessing the request for security clearance (i.e., information not required by the AFR form), the Bidder will be required to submit that

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information within the time period established by the Contracting Authority, which will not be less than 48 hours. If, at any time, the Bidder fails to provide the required information within the timeframe established by the Contracting Authority, its bid will be declared non-compliant.

### **5.2.3 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](#) 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.

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## 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 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](#) (2022-12-01), General Conditions - Goods (Medium Complexity), 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 from date of Contract to March 31<sup>st</sup> 2026 inclusive

#### 6.4.2 Delivery Date

All the deliverables must be received on or before March 29<sup>th</sup> 2024.

#### 6.4.3 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in 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 at any time before the expiry of the Contract by sending a written notice to the Contractor.

#### 6.4.4 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified below:

INDUSTRY / INDUSTRIE CANADA

Supply Operations

Kent at Sparks

C/O Level S1 room S155

235 Queen Street

Ottawa ON K1A 0H5

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Danish Hussain  
 Title: Supply Specialist  
 Public Works and Government Services Canada  
 Acquisitions Branch  
 Directorate: EMTSD  
 Address: 11 Rue Laurier, Gatineau, QC  
 J8X 4A6

Telephone: 873-355-4364

E-mail address: [Danish.Hussain@tpsgc-pwgsc.gc.ca](mailto:Danish.Hussain@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 Procurement Authority

The Project Authority for the Contract is:

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

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

The Procurement 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

*Fill in or delete as applicable*

### 6.6 Proactive Disclosure of Contracts with Former Public Servants

*In contracts for services, insert SACC Manual clause [A3025C](#) in full text, to assist client departments in identifying contracts with former public servants and reporting this information in their Proactive Disclosure of Contracts. Use this clause in conjunction with [A3025T](#) or [A3026T](#). Consult sections [3.90](#) and [7.65](#) of the Supply Manual for additional information.*

### 6.7 Payment

#### 6.7.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the

Contractor will be paid a firm lot price as specified in Annex D, Basis of Payment for a cost of \$ \_\_\_\_\_.

Customs duties are included and Applicable Taxes are extra.

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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.

### 6.7.2 Limitation of Price

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

### 6.7.3 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);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

### 6.8 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.

Each invoice must be supported by:

- a. a copy of time sheets to support the time claimed;
- b. a copy of the release document and any other documents as specified in the Contract;
- c. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
- d. a copy of the monthly progress report.

2. Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.



- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
- c. one (1) copy must be forwarded to the consignee.

## 6.9 Certifications and Additional Information

### 6.9.1 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.

### 6.10 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

### 6.11 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 (2022-12-01), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Mandatory Technical Requirements;
- (e) Annex C, Point Rated Technical Requirements;
- (f) Annex D, Basis of Payment
- (g) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: ", as clarified on \_\_\_\_\_" or ", as amended on \_\_\_\_\_" and insert date(s) of clarification(s) or amendment(s)*)

### 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.

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- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

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**U6800-244072/A**

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

Amd. No. - N° de la modif.

File No. - N° du dossier

**U6800-244072**

Buyer ID - Id de l'acheteur

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CCC No./N° CCC - FMS No./N° VME

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## **ANNEX "A"**

### **STATEMENT OF REQUIREMENT**

***(Insert if applicable)***



**Statement of Requirement  
for a  
Receiver Kit  
April 17, 2023**

Spectrum and Telecommunications Sector



## 1. Scope

This Statement of Requirement (SOR) details the requirements for a Receiver Kit.

### 1.1 BACKGROUND

Innovation, Science & Economic Development Canada (ISED), Spectrum and Telecommunications Sector (STS) is currently modernizing its aging radio frequency test and measurement equipment portfolio under the auspices of the Pulsar program. This equipment is used to monitor, localize and measure technical parameters of radio emissions for radio interference, compliance and enforcement work.

STS Officers are often required to detect both analog and digital RF signals. Our current receiver kits have reached their end of life and necessitates the need for replacement to ensure that this measurement capability is maintained going forward.

### 1.2 Instructions

The following instructions apply to this specification:

- a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted.
- b) Requirements identified by “should” are considered non-mandatory.

Where a technical specification or requirement is identified in the mandatory or rated technical specifications “Proof of Compliance” must be provided with the RFP response.

### 1.3 Definitions

The following definitions apply to the interpretation of this Statement of Requirement:

“Technical Authority” - The government official responsible for technical content of this requirement.

“Receiver kit” – A standalone hardware-based receiver that is manually operated and does not require any external data processing hardware (i.e., personal computer) to function, including all accessories such as antenna, power adapter and storage case in accordance with the requirements in this Statement of Requirements.

“Proof of Compliance” is defined as an unaltered document, such as a product marketing brochure, and/or operating manual and/or service manual, and/or product data sheet. The document must provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications, an attestation (as a separate document) signed by an authorized representative of the Original Equipment Manufacturer (OEM) detailing how the performance requirements and/or specifications are met must be provided.

### 1.4 Technical Specifications

The Contractor must provide the requested receiver kit in accordance with the technical specifications detailed in *Appendix 1 – Mandatory Technical Specifications for the receiver kit* and any optional specifications offered by the Contractor in accordance with *Appendix 2 – Supplementary (Rated) Technical Specifications for the receiver kit*.

### 1.5 Standard Design

- a) The receiver kit must be the manufacturer’s latest in production model.

### 1.6 Identification

The following information must be permanently marked in a visible and protected location on the receiver:

- a) Manufacturer's name, model and serial number.

### 1.7 Equipment Manuals

#### 1.7.1 Equipment Manuals

Full documentation on the kit including operation and maintenance of the receiver kit **must** accompany each kit and shipped to each location.

### 1.7.2 Operator's Manual

The operator's manual **must** be provided in French or English.

The operator's manual **should** be bilingual (English/French).

If the contractor is only able to provide the operator's manual in only one language, written permission of the copyright holder, of the manual, to use and translate any copyrighted material **must** be provided to the Government of Canada for translation.

### 1.7.3 Maintenance Manual

A maintenance manual **should** be provided and include the following:

- a) A trouble-shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem.
- b) Any special tools/equipment needed for troubleshooting and service.

The maintenance manual **must** be provided in French or English.

The maintenance manual **should** be bilingual (English/French).

If the contractor is only able to provide the maintenance manual in only one language, written permission of the copyright holder, of the manual, to use and translate any copyrighted material **must** be provided to the Government of Canada for translation.

## 1.8 Accessibility requirements

The manuals must be delivered in an accessible format, in compliance with the Harmonised European Standard, EN 301 549 (2018) ([https://www.etsi.org/deliver/etsi\\_en/301500\\_301599/301549/02.01.02\\_60/en\\_301549v020102p.pdf](https://www.etsi.org/deliver/etsi_en/301500_301599/301549/02.01.02_60/en_301549v020102p.pdf)) for accessible Information and Communication Technology (ICT), clause 10 for non-web documents.

Any other instructions that are provided with the receiver kit should conform to those standards for web-based documents, electronic documents, and hard copies.

The provision of facilities, tools and services, and all associated costs, to make the components and deliverables of this project accessible must be at the Contractor's expense.

For practical guidance on creating accessible documents, refer to these Accessible Document Guides (<https://a11y.canada.ca/en/>).

## 1.9 Equipment Lifecycle

Lifecycle of equipment will be a five (5) year period from date of delivery and acceptance of goods received as ordered and received undamaged.

## 1.10 Maintenance Support

1.10.1 The Contractor **must** ensure capability to provide parts and repair for a period of five (5) years from date of delivery and acceptance of the equipment.

## 1.11 Warranty

- a) Each receiver kit purchased must include one (1) year standard warranty.
- b) The Contractor must provide a list of all Canadians designated warranty service providers that will honour the warranty for the equipment procured under this contract, including the contact person and phone number at each warranty provider. Where no Canadian designated warranty service providers are available, the Contractor must provide a list of intermediate depots located in Canada that will facilitate the transit of the warranty equipment to outside Canada for servicing. The Contractor must include the contact person and phone number at each depot. The Contractor will be responsible for the cost of handling and shipping the defective part/component to the factory for repair. The Contractor will be responsible for handling, packaging and shipping the replacement equipment to the designated ISED destination.
- c) The warranty must include coverage for material and labor for covered repairs and when necessary, any re-

calibration that is triggered by the repairs.

- d) The Contractor must provide contact information, name and phone number, for warranty support.
- e) The Contractor must provide options for extended warranty. The exercise of the extended warranty will be at the discretion of Government of Canada.

1.12 List of Deliverables

1.12.1 Receiver kit

Description	Quantity
Receiver kit as specified in the Statement of Requirements.	72 units

1.13 Optional Purchases

1.13.1 Additional Receiver Kits

Option Year	Description	Quantity
1	Receiver Kits as specified in the Statement of Requirements.	Up to 5 units
2	Receiver Kits as specified in the Statement of Requirements.	Up to 5 units
3	Receiver Kits as specified in the Statement of Requirements.	Up to 5 units
The Contractor <b>must</b> deliver the requested additional unit(s) within six (6) weeks from the date the option is exercised by the Government of Canada.		

# Appendix 1 – Mandatory Technical Specifications for the Receiver Kit

(Reference: Appendix 3 – Definitions and Glossary Syllabus)

Item #	General	Required specifications
1	Form Factor	The hardware-based receiver must be a standalone handheld device.
2	Maximum electronics package weight	The hardware-based receiver must weight a maximum of 454 grams including internal batteries and the antenna.
3	Unit Dimensions	The hardware-based receiver must have dimensions less than or equal to 70(W) x 175(H) x 50(D) millimeters (without the antenna).
4	Internal battery pack	The receiver kit must provide a Lithium-ion internal rechargeable battery pack that provides a minimum 4 hours operating time with the screen ON in receive mode.
5	RF input connector	The receiver must provide an external RF connector to facilitate a connection to an external antenna.
6	RF input connector type	The receiver must provide a female BNC connector (directly or via adapter).
7	RF input attenuator (internal)	The receiver must provide an internal user selectable RF input attenuator.
8	External Audio output	The receiver kit must provide a jack for external audio output.
9	Internal Audio output	The receiver kit must provide an integrated speaker.
10	Operating temperature range (°C)	The receiver kit must provide an operating temperature range between -10°C to +40°C.
11	IPX ingress protection factor	The receiver must meet minimum IPX2 ingress requirement.
12	AC Power	The receiver kit must provide a compact AC power supply for the receiver to be powered by external 120 VAC 60 Hz power source.
13	DC Power	The receiver kit must provide a compact DC to DC converter for the receiver to be powered by an external automotive 12 VDC power sources.
14	Storage case	The receiver must be packaged in a single, compact, hard carrying case that provides soft interior padding for the safe storage of all OEM receiver components and accessories. The case must meet Ingress Protection (IP) IP 64 rating or better IP rating.
15	Accessories	The receiver kit must include a belt clip for the receiver.
Item #	RF Performance	Required specifications
16	RF input impedance	The receiver must present an RF input impedance of 50 Ohms.
17	Lowest Operating Frequency	The receiver minimum operating frequency must be less than or equal to 100 kHz
18	Highest Operating Frequency	The receiver maximum operating frequency must be greater than or equal to 1 GHz.
19	Frequency coverage	The receiver must cover its entire required frequency range listed above without any gaps.
20	Frequency stability	The receiver must meet the minimum frequency stability of +/-5.0 ppm over the operating temperature range.
21	Selectable IF Bandwidth	The receiver must provide user selectable IF filter bandwidths
22	Selectable IF Bandwidth	The receiver user selectable IF filter bandwidths must be between 500 Hz and 100 kHz.
23	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for HF signals of -101 dBm (2.0 µv).
24	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for VHF signals of -102 dBm (1.8 µV).
25	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for UHF signals of -112 dBm (0.56 µV).
Item #	Demodulation	Required specifications
26	Demodulation BW	The receiver must provide a maximum demodulation bandwidth up to 100 kHz.
27	Analog Signal Demodulation	The receiver kit must demodulate and provide audio output for the following analog signal types: 1. AM (Narrowband) 2. FM(Narrowband) 3. WFM (Wideband) 4. CW 5. Single Side Band



28	Digital Signal Demodulation	The receiver kit must demodulate and provide audio output for non-encrypted signals of the following digital signal types: <ol style="list-style-type: none"> <li>1. APCO P25</li> <li>2. DPMR and/or DMR</li> <li>3. MotoTrbo</li> <li>4. NXDN and/or IDAS</li> </ol>
Item #	User interface	Required specifications
29	Visual "signal intensity" indication	The receiver must provide a signal strength display.
30	Frequency step size	The receiver must provide user selectable tuning frequency step sizes.
31	Tuning Frequency resolution	The receiver must provide user selectable tuning frequency step sizes between 50 Hz and 100 kHz.
32	Tuning control	The receiver must provide direct frequency tuning input via physical keypad.
33	Tuning control	The receiver must provide a physical tuning knob/dial.
34	Volume control	The receiver must provide a physical volume control knob/dial.
35	Squelch control	The receiver must provide user selectable squelch threshold control.
36	Indicator display	The receiver must provide a visual display for settings, status and signal information.
37	Scanning	The receiver must provide a user selectable scanning mode.
38	Memory Channel	The receiver must store a total of 1300 or more memory channels.
39	Decoding	The receiver must demodulate and display CTCSS tone frequencies and DCS codes for analog emissions.
40	Control	The receiver must provide user adjustable squelch control for: <ol style="list-style-type: none"> <li>1. RF Carrier squelch</li> <li>2. CTCSS tone</li> <li>3. DCS codes</li> </ol>
41	Display	The receiver must provide an integrated display that indicates the following operating conditions: <ol style="list-style-type: none"> <li>1. Frequency</li> <li>2. Bandwidth</li> <li>3. Received signal level</li> <li>4. Demodulation mode</li> <li>5. Attenuator status</li> <li>6. Battery status</li> <li>7. Real time clock display</li> <li>8. Operational mode display</li> <li>9. Scan mode and memory display</li> </ol>
Item	Support	Required specifications
42	Kit software & equipment use and maintenance	The receiver must provide means to update the firmware.

Appendix 2 – Supplementary (Rated) Technical Specifications for the Receiver Kit.

(Reference: Appendix 3 – Definitions and Glossary Syllabus)

Item #	User interface	Rated specifications
1	Control	The receiver should offer a keypad lock function.
2	Tuning resolution	The receiver should provide the following tuning step sizes: 1 Hz, 10 Hz, 50 Hz, 500 Hz, 1 kHz, 2.5 kHz, 5 kHz, 6.25 kHz, 10 kHz, 12.5 kHz, 15 kHz, 20 kHz, 25 kHz, 30 kHz, 50 kHz, 100 kHz, 200 kHz, 250 kHz, 500 kHz, 1MHz (points given for each step size provided).
3	Amplitude	The receiver should offer a maximum safe continuous RF input level of +0 dBm or greater.
4	Third Order Intercept (TOI)	The receiver should offer a Third Order Intercept (TOI) of +7 dBm or greater across the operating frequency range.
5	Off-Channel rejection	The receiver should provide an ultimate off-channel IF rejection of 60 dB or greater.
6	Control	The receiver should provide user selectable AGC parameter control.
7	Control	The receiver should provide user selectable RF gain control.
8	Memory management	The receiver should provide the following memory management capabilities: <ol style="list-style-type: none"><li>1. Selectable memory groups</li><li>2. Advanced memory channel configuration to include mode, IFBW, squelch type and squelch parameters (i.e., carrier squelch level, CTCSS and DCS information)</li><li>3. Advanced memory channel configuration to include trunking system parameters</li><li>4. Advanced memory group identification via titles</li><li>5. Add/create, copy, erase and move memory groups</li><li>6. Selectable grouping of memory groups</li><li>7. Priority reception of a memory channel</li></ol>
9	Scanning management	The receiver should provide user selectable scanning modes including <ol style="list-style-type: none"><li>1. Frequency list(s)</li><li>2. Start/stop frequencies</li><li>3. Band scans</li><li>4. Emission type</li><li>5. Digital emission parameters</li><li>6. Trunked radio system lists(s)</li></ol>
10	Control	The receiver should provide automatic trunked radio system discovery & system parameter capture for trunked radio systems.
11	Control	The receiver should provide trunking system active traffic channel tracking for the following trunking systems: <ol style="list-style-type: none"><li>1. APCO P25 Phase 1 digital trunked systems</li><li>2. APCO P25 Phase 2 digital trunked systems</li><li>3. Motorola X2-TDMA digital trunked systems</li><li>4. Motorola conventional trunked systems</li><li>5. General Electric/Ericsson EDACS conventional trunked systems</li><li>6. EF Johnson LTR conventional trunked systems</li></ol>
12	Control	The receiver should provide time-stamped audio recording files.
13	Control	The receiver should provide audio recording files with duration information.
14	Control	The receiver should provide a mechanism to restore factory default conditions.
Item #	Support	Required specifications
15	Remote control	The vendor should provide a wired connection control.
16	Remote control	The vendor should provide software and drivers that are Windows 10 compatible to remotely control the receiver.
17	Software Compatibility	The software and necessary drivers should be compatible to Windows 11.
18	Remote control	The vendor should provide hardware interfacing requirements and necessary command code lists to allow for end user development of remote-control software.
19	Lifecycle	The vendor should ensure that full repair support and replacement parts during the five (5) years life cycle of the equipment are available.

20	Lifecycle	The vendor should provide API/SDK kits and programming guides for systems and devices for customer and/or 3rd party support of end-user software and equipment drivers.
21	Explosive atmosphere	The receiver should meet or exceed <a href="#">section 511.5 of MIL-STD 810G</a> , whether via external means (protective coverings) or by inherent design, for operation in explosive atmospheres.
22	Digital Signal Demodulation	The receiver kit should demodulate and provide audio output for non-encrypted signals of the following digital signal types: <ol style="list-style-type: none"><li>1. TETRA</li><li>2. C4FM</li><li>3. D-STAR</li></ol>
23	Recording	The receiver should record baseband demodulated audio to storage using standard lossy/compressed audio file formats.
24	Accessories	If required, the vendor should provide a storage media with the receiver kit to store a minimum of 4 hours of audio recordings.

### Appendix 3 – Standard Definitions and Glossary Syllabus

Definitions	
Standalone	Hardware that is manually operated and does not require any external data processing hardware (i.e., personal computer) to function.
Receiver kit	A standalone hardware-based receiver that is manually operated and does not require any external data processing hardware (i.e., personal computer) to function, including all accessories such as antenna, power adapter and storage case in accordance with the requirements in this Statement of Requirements.
Glossary	
AC	Alternating Current
AM	Amplitude Modulation
APCO P25	Project 25
API	Application Programming Interface
BW	Bandwidth
C	Temperature in degrees Celsius
C4FM	Continuous 4 level FM
CTCSS	Continuous Tone-Coded Squelch System
CW	Continuous Wave
DC	Direct Current
DCS	Digital coded squelch
dPMR	Digital Private Mobile Radio
D-STAR	Digital Smart Technologies for Amateur Radio
FM	Frequency Modulation
IDAS	ICOM digital advanced system
IF	Intermediate Frequency
IPX	Ingress Protection rating factor
Memory groups	Frequently used groups of frequencies
mm	Metric unit of length in millimeters
MOTOTRBO	Digital radio format
Narrowband signal	Radio frequency bandwidth lower than 30 kHz
NXDN	Next Generation Digital Narrowband
OEM	Original Equipment Manufacturer
P25	Project 25
RF	Radio Frequency
SDK	Software Development Kits
Tetra	Digital radio format
TOI	Third-Order Intercept
UHF	Ultra-High Frequency
VHF	Very High Frequency
VSWR	Voltage Standing Wave Ratio
Wideband signal	Radio frequency bandwidth higher than 30 kHz

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File No. - N° du dossier

**U6800-244072**

Buyer ID - Id de l'acheteur

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CCC No./N° CCC - FMS No./N° VME

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## **ANNEX "B"**

### **Mandatory Technical Requirements**

***(Insert if applicable)***



## ANNEX – Mandatory Requirements Evaluation for the Receiver Kit

Item #	General	Required specifications	Evaluation Method	Req. Met Yes/No
1	Form Factor	The hardware-based receiver must be a standalone handheld device.	Published Vendor information review or signed OEM compliance attestation	
2	Maximum electronics package weight	The hardware-based receiver must weight a maximum of 454 grams including internal batteries and the antenna.	Published Vendor information review or signed OEM compliance attestation	
3	Unit Dimensions	The hardware-based receiver must have dimensions less than or equal to 70(W) x 175(H) x 50(D) millimeters (without the antenna).	Published Vendor information review or signed OEM compliance attestation	
4	Internal battery pack	The receiver kit must provide a Lithium-ion internal rechargeable battery pack that provides a minimum 4 hours operating time with the screen ON in receive mode.	Published Vendor information review or signed OEM compliance attestation	
5	RF input connector	The receiver must provide an external RF connector to facilitate a connection to an external antenna.	Published Vendor information review or signed OEM compliance attestation	
6	RF input connector type	The receiver must provide a female BNC connector (directly or via adapter).	Published Vendor information review or signed OEM compliance attestation	
7	RF input attenuator (internal)	The receiver must provide an internal user selectable RF input attenuator.	Published Vendor information review or signed OEM compliance attestation	
8	External Audio output	The receiver kit must provide a jack for external audio output.	Published Vendor information review or signed OEM compliance attestation	
9	Internal Audio output	The receiver kit must provide an integrated speaker.	Published Vendor information review or signed OEM compliance attestation	
10	Operating temperature range (°C)	The receiver kit must provide an operating temperature range between -10°C to +40°C.	Published Vendor information review or signed OEM compliance attestation	



11	IPX ingress protection factor	The receiver must meet minimum IPX2 ingress requirement.	Published Vendor information review or signed OEM compliance attestation	
12	AC Power	The receiver kit must provide a compact AC power supply for the receiver to be powered by external 120 VAC 60 Hz power source.	Published Vendor information review or signed OEM compliance attestation	
13	DC Power	The receiver kit must provide a compact DC to DC converter for the receiver to be powered by an external automotive 12 VDC power sources.	Published Vendor information review or signed OEM compliance attestation	
14	Storage case	The receiver must be packaged in a single, compact, hard carrying case that provides soft interior padding for the safe storage of all OEM receiver components and accessories. The case must meet Ingress Protection (IP) IP 64 rating or better IP rating.	Published Vendor information review or signed OEM compliance attestation	
15	Accessories	The receiver kit must include a belt clip for the receiver.	Published Vendor information review or signed OEM compliance attestation	
Item #	RF Performance	Required specifications		
16	RF input impedance	The receiver must present an RF input impedance of 50 Ohms.	Published Vendor information review or signed OEM compliance attestation	
17	Lowest Operating Frequency	The receiver minimum operating frequency must be less than or equal to 100 kHz	Published Vendor information review or signed OEM compliance attestation	
18	Highest Operating Frequency	The receiver maximum operating frequency must be greater than or equal to 1 GHz.	Published Vendor information review or signed OEM compliance attestation	
19	Frequency coverage	The receiver must cover its entire required frequency range listed above without any gaps.	Published Vendor information review or signed OEM compliance attestation	
20	Frequency stability	The receiver must meet the minimum frequency stability of	Published Vendor information review or	



		+/-5.0 ppm over the operating temperature range.	signed OEM compliance attestation	
21	Selectable IF Bandwidth	The receiver must provide user selectable IF filter bandwidths	Published Vendor information review or signed OEM compliance attestation	
22	Selectable IF Bandwidth	The receiver user selectable IF filter bandwidths must be between 500 Hz and 100 kHz.	Published Vendor information review or signed OEM compliance attestation	
23	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for HF signals of -101 dBm (2.0 µv).	Published Vendor information review or signed OEM compliance attestation	
24	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for VHF signals of -102 dBm (1.8 µV).	Published Vendor information review or signed OEM compliance attestation	
25	Sensitivity	The receiver kit must have the sensitivity to detect an input signal level for UHF signals of -112 dBm (0.56 µV).	Published Vendor information review or signed OEM compliance attestation	
<b>Item #</b>	<b>Demodulation</b>	<b>Required specifications</b>		
26	Demodulation BW	The receiver must provide a maximum demodulation bandwidth up to 100 kHz.	Published Vendor information review or signed OEM compliance attestation	
27	Analog Signal Demodulation	The receiver kit must demodulate and provide audio output for the following analog signal types: <ol style="list-style-type: none"><li>1. AM (Narrowband)</li><li>2. FM(Narrowband)</li><li>3. WFM (Wideband)</li><li>4. CW</li><li>5. Single Side Band</li></ol>	Published Vendor information review or signed OEM compliance attestation	
28	Digital Signal Demodulation	The receiver kit must demodulate and provide audio output for non-encrypted signals of the following digital signal types: <ol style="list-style-type: none"><li>1. APCO P25</li><li>2. DPMR and/or DMR</li><li>3. MotoTrbo</li><li>4. NXDN and/or IDAS</li></ol>	Published Vendor information review or signed OEM compliance attestation	
<b>Item #</b>	<b>User interface</b>	<b>Required specifications</b>		





29	Visual "signal intensity" indication	The receiver must provide a signal strength display.	Published Vendor information review or signed OEM compliance attestation	
30	Frequency step size	The receiver must provide user selectable tuning frequency step sizes.	Published Vendor information review or signed OEM compliance attestation	
31	Tuning Frequency resolution	The receiver must provide user selectable tuning frequency step sizes between 50 Hz and 100 kHz.	Published Vendor information review or signed OEM compliance attestation	
32	Tuning control	The receiver must provide direct frequency tuning input via physical keypad.	Published Vendor information review or signed OEM compliance attestation	
33	Tuning control	The receiver must provide a physical tuning knob/dial.	Published Vendor information review or signed OEM compliance attestation	
34	Volume control	The receiver must provide a physical volume control knob/dial.	Published Vendor information review or signed OEM compliance attestation	
35	Squelch control	The receiver must provide user selectable squelch threshold control.	Published Vendor information review or signed OEM compliance attestation	
36	Indicator display	The receiver must provide a visual display for settings, status and signal information.	Published Vendor information review or signed OEM compliance attestation	
37	Scanning	The receiver must provide a user selectable scanning mode.	Published Vendor information review or signed OEM compliance attestation	
38	Memory Channel	The receiver must store a total of 1300 or more memory channels.	Published Vendor information review or signed OEM compliance attestation	
39	Decoding	The receiver must demodulate and display CTCSS tone frequencies and DCS codes for analog emissions.	Published Vendor information review or signed OEM compliance attestation	
40	Control	The receiver must provide user adjustable squelch control for: 1. RF Carrier squelch	Published Vendor information review or	



		2. CTCSS tone 3. DCS codes	signed OEM compliance attestation	
41	Display	The receiver must provide an integrated display that indicates the following operating conditions: 1. Frequency 2. Bandwidth 3. Received signal level 4. Demodulation mode 5. Attenuator status 6. Battery status 7. Real time clock display 8. Operational mode display 9. Scan mode and memory display	Published Vendor information review or signed OEM compliance attestation	
Item	Support	Required specifications		
42	Kit software & equipment use and maintenance	The receiver must provide means to update the firmware.	Published Vendor information review or signed OEM compliance attestation	

Solicitation No. - N° de l'invitation

**U6800-244072/A**

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

Amd. No. - N° de la modif.

File No. - N° du dossier

**U6800-244072**

Buyer ID - Id de l'acheteur

XXXXX

CCC No./N° CCC - FMS No./N° VME

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## **ANNEX "C"**

### **Point Rated Technical Requirements**

***(Insert if applicable)***



## ANNEX – Supplementary (Rated) Requirements Evaluation for the Receiver Kit.

Item #	Category	Rated Specification	Points Rating	Evaluation Method	Points Awarded (maximum total of 305)	Cross Reference to Bid
1	Control	The receiver should offer a keypad lock function.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	____/5	
2	Tuning resolution	<p>The receiver should provide the following tuning step sizes:</p> <ol style="list-style-type: none"><li>1. 1 Hz,</li><li>2. 10 Hz,</li><li>3. 50 Hz,</li><li>4. 4. 500 Hz,</li><li>5. 5. 1 kHz,</li><li>6. 6. 2.5 kHz,</li><li>7. 7. 5 kHz,</li><li>8. 8. 6.25 kHz,</li><li>9. 9. 10 kHz,</li><li>10. 10. 12.5 kHz,</li><li>11. 11. 15 kHz,</li><li>12. 12. 20 kHz,</li><li>13. 13. 25 kHz,</li><li>14. 14. 30 kHz,</li><li>15. 15. 50 kHz,</li><li>16. 16. 100 kHz,</li><li>17. 17. 200 kHz,</li><li>18. 18. 250 kHz,</li><li>19. 19. 500 kHz,</li><li>20. 20. 1 MHz</li></ol> <p><b>Points rating:</b> 2 point given for each step size provided</p>	<p>maximum of 40 points</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	Published vendor information review <u>or</u> signed OEM compliance attestation	____/40	
3	Amplitude	The receiver should offer a maximum safe continuous RF input level of +0 dBm or greater.	15	Published vendor information review <u>or</u> signed OEM compliance attestation	____/15	



4	Third Order Intercept (TOI)	The receiver should offer a Third Order Intercept (TOI) of +7 dBm or greater across the operating frequency range.	15	Published vendor information review <u>or</u> signed OEM compliance attestation	___/15	
5	Off-Channel rejection	The receiver should provide an ultimate off-channel IF rejection of 60 dB or greater.	15	Published vendor information review <u>or</u> signed OEM compliance attestation	___/15	
6	control	The receiver should provide user selectable AGC parameter control.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
7	control	The receiver should provide user selectable RF gain control.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
8	Memory management	<p>The receiver should provide the following memory management capabilities:</p> <ol style="list-style-type: none"><li>1. Selectable memory groups,</li><li>2. Advanced memory channel configuration to include mode, IFBW, squelch type and squelch parameters (i.e., carrier squelch level, CTCSS and DCS information),</li><li>3. Advanced memory channel configuration to include trunking system parameters</li><li>4. Memory group identification via titles,</li><li>5. Add/create, copy, erase and move memory groups,</li><li>6. Selectable grouping of memory groups,</li></ol>	<p>maximum of 35 points</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p>	Published vendor information review <u>or</u> signed OEM compliance attestation	___/35	



		<p>7. Priority reception of a memory channel</p> <p><b>Points rating:</b> 5 points given for each capability provided</p>				
9	Scanning management	<p>The receiver should provide user configurable scanning modes including:</p> <ol style="list-style-type: none"><li>1. frequency list(s),</li><li>2. start/stop frequencies,</li><li>3. band scans,</li><li>4. Emission type,</li><li>5. Digital emission parameters,</li><li>6. Trunked radio system lists(s)</li></ol> <p><b>Points rating:</b> 5 points given for each scanning mode provided</p>	<p>maximum of 30 points</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>	<p>Published vendor information review <u>or</u> signed OEM compliance attestation</p>	<p>____/30</p>	
10	Control	<p>The receiver should provide automatic trunked radio system discovery &amp; system parameter capture for trunked radio systems</p>	<p>10 points</p>		<p>____/10</p>	
11	Control	<p>The receiver should provide trunking system active traffic channel tracking for the following trunking systems:</p> <ol style="list-style-type: none"><li>1. APCO P25 Phase 1 digital trunked systems</li><li>2. APCO P25 Phase 2 digital trunked systems</li><li>3. Motorola X2-TDMA digital trunked systems</li><li>4. Motorola conventional trunked systems</li><li>5. General Electric/Ericsson EDACS conventional trunked systems</li><li>6. EF Johnson LTR conventional trunked systems</li></ol> <p><b>Points rating:</b> 5 points given for each trunk tracking mode supported.</p>	<p>maximum of 30 points</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p> <p>____</p>		<p>____/30</p>	



12	Control	The receiver should provide time-stamped audio recording files.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
13	Control	The receiver should provide audio recording files with duration information.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
14	Control	The receiver should provide a mechanism to restore factory default conditions.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	



Item #	Support	Required specifications	Points Rating	Evaluation Method	Points Awarded	Cross Reference to Bid
15	Remote control	The vendor should provide a wired connection control	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
16	Remote control	The vendor should provide software and drivers that are Windows 10 compatible to remotely control the receiver	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
17	Software Compatibility	The software and necessary drivers should be compatible to Windows 11	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
18	Remote control	The vendor should provide hardware interfacing requirements and necessary command code lists to allow for end user development of remote control software.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
19	Lifecycle	The vendor should ensure that full repair support and replacement parts during the life cycle following the date of delivery or the date of acceptance, whichever is later.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
20	Lifecycle	The vendor should provide API/SDK kits and programming guides for systems and devices for customer and/or 3rd party support of end-user software and equipment drivers.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	





21	Explosive atmosphere	The receiver should meet or exceed section 511.5 of MIL-STD 810G, whether via external means (protective coverings) or by inherent design, for operation in explosive atmospheres.	5	Published vendor information review <u>or</u> signed OEM compliance attestation	___/5	
22	Digital Signal Demodulation	The receiver kit should demodulate and provide audio output for non-encrypted signals of the following digital signal types: 1. TETRA 2. C4FM 3. D-STAR <b>Points rating:</b> 20 points given for TETRA and 5 points each for C4FM and D-STAR	maximum of 30 points  ___ ___ ___	Published vendor information review <u>or</u> signed OEM compliance attestation	___/30	
23	Recording	The receiver should record baseband demodulated audio to storage using standard lossy/compressed audio file formats.	10	Published vendor information review <u>or</u> signed OEM compliance attestation	___/10	
24	Accessories	If required the vendor should provide a storage media with the receiver kit to store a minimum of 4 hours of audio recordings.	10	Published vendor information review <u>or</u> signed OEM compliance attestation	___/10	

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## ANNEX "D"

### Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price as shown below. 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.

#### Item 1. Firm Quantity of goods

Item	Price per unit	Quantity	Extended Price
Receiver Kit		72	(A)

#### Item 2: Optional quantity of goods

Item	Price per unit	Quantity	Extended Price
Receiver Kit – Option Year 1		Up to 5	(B)
Receiver Kit – Option Year 2		Up to 5	(C)
Receiver Kit – Option Year 3		Up to 5	(D)

Price for evaluation purposes = (A) + (B) + (C) + (D)

**ANNEX “X” to PART 3 OF THE BID SOLICITATION**

***(insert if applicable)***

**ELECTRONIC PAYMENT INSTRUMENTS**

*As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.*

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);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)