



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

Bid Receiving/Réception des soumissions

RCMP Procurement & Contracting  
73 Leikin Drive, Bldg M1  
Mailstop #15  
Ottawa, ON K1A 0R2  
Att: Amal Baldwin 613-843-3798

**REQUEST FOR  
PROPOSAL**

**DEMANDE DE  
PROPOSITION**

Proposal to: Royal Canadian Mounted Police

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 : Gendarmerie royale du 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 appendices ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments: - Commentaries :

<b>Title – Sujet</b> Radio Site Monitoring Equipment		<b>Date</b> February 12, 2015
<b>Solicitation No. – N° de l’invitation</b> 201503133		
<b>Client Reference No. - No. De Référence du Client</b> 201503133		
<b>Solicitation Closes – L’invitation prend fin</b>		
<b>At /à :</b>	2 :00 PM	EST (Eastern Standard Time) HNE (heure normale de l’Est)
<b>On / le :</b>	February 27th, 2015	
<b>Shipping/ livraison</b> See herein — Voir aux présentes	<b>GST – TPS</b> See herein — Voir aux présentes	<b>Duty – Droits</b> See herein — Voir aux présentes
<b>Destination of Goods and Services – Destinations des biens et services</b> RCMP Informatic Radio Workshop 5010 49 Avenue Yellowknife, North West Territories X1A 2R3 Att:Chris John 867-765-3791		
<b>Invoicing Instructions -</b> RCMP National Radio Services 1200 Vanier Parkway, CPIC Bldg Mailstop#16 Ottawa, ON K1A 0R2		
<b>Address Inquiries to –</b> <b>Adresser toute demande de renseignements à</b> Carmelia Da Silva		
<b>Telephone No. – No. de téléphone</b> 613-843-3896		<b>Facsimile No. – No. de télécopieur</b>
<b>Delivery Required –</b> <b>Livraison exigée</b> See herein — Voir aux présentes		<b>Delivery Offered –</b> <b>Livraison proposée</b>
<b>Vendor/Firm Name, Address and Representative – Raison sociale, adresse et représentant du fournisseur/de l’entrepreneur:</b>		
<b>Telephone No. – No. de téléphone</b>		<b>Facsimile No. – No. de télécopieur</b>
<b>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)</b>		
<b>Signature</b>		<b>Date</b>



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## PART 1 - GENERAL INFORMATION

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Statement of Requirement

The Statement of Requirement is detailed in Annex "A".

### 3. Debriefings

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

### 4. Procurement Ombudsman

The Office of the Procurement Ombudsman (OPO) was established by the Government of Canada to provide an independent avenue for suppliers to raise complaints regarding the award of contracts under \$25,000 for goods and under \$100,000 for services. You have the option of raising issues or concerns regarding the solicitation, or the award resulting from it, with the OPO by contacting them by telephone at 1-866-734-5169 or by e-mail at [boa.opo@boa.opo.gc.ca](mailto:boa.opo@boa.opo.gc.ca). You can also obtain more information on the OPO services available to you at their website at [www.opo-boa.gc.ca](http://www.opo-boa.gc.ca).

## PART 2 - BIDDER INSTRUCTIONS

### 1. Standard Instructions, Clauses and Conditions

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

Revision to Departmental Name: As this solicitation is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Section 01 – Code of Conduct and Certification – Bid of 2003 referenced above is amended as follows:

Delete subsection 1.4 and 1.5 in their entirety.



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

Delete: sixty (60) days  
Insert: ninety (90) days

## **2. Submission of Bids**

Bids must be submitted only to RCMP Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted electronically to the RCMP will not be accepted.

## **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

## **4. Applicable Laws**

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

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

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### **1. Bid Preparation Instructions**

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

- Section I: Technical Bid (4 hard copies)
- Section II: Financial Bid (1 hard copies)
- Section III: Certifications (1 hard 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 their bid:

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

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

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

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

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

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

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

##### **1.1 Exchange Rate Fluctuation**

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

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

Bidders must submit the certifications required under Part 5.

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

#### **1. Evaluation Procedures**

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



## 1.1 Technical Evaluation

### 1.1.1 Mandatory Technical Criteria

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation, per Annex "B"

### 1.1.2 Pont Rated Technical Criteria

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation, per Annex "B"

## 1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP North West Territories, Canadian customs duties and excise taxes included.

## 2. Basis of Selection

### 2.1 Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
  - a) comply with all the requirements of the bid solicitation; and
  - b) meet all mandatory criteria; and
2. Bids not meeting "(a) or (b) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% 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 70%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30 %.
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.



**Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)**

		Bidder 1	Bidder 2	Bidder 3
<b>Overall Technical Score</b>		115/135	89/135	92/135
<b>Bid Evaluation Price</b>		55,000	50,000	45,000
<b>Calculation</b>	<b>Technical Merit</b>	115/135 x 70 = 59.62	89/135 x 70 = 46.14	92/135 x 70 = 47.69
	<b>Pricing Score</b>	45/55 x 30 = 24.54	45/50 x 30 = 27.00	45/45 x 30 = 30
<b>Combined Rating</b>		84.16	73.14	77.69
<b>Overall Rating</b>		1 <sup>st</sup>	3 <sup>rd</sup>	2nd

**PART 5 - CERTIFICATIONS**

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

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

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

**1. Mandatory Certifications Required Precedent to Contract Award**

**1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in the Standard Instructions identified in this solicitation. The related documentation therein required will assist Canada in confirming that the certifications are true.

**1.2 Federal Contractors Program for Employment Equity - Bid Certification**

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

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

**2. Additional Certifications Precedent to Contract Award**

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



## 2.1 Former Public Servant Certification

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 FPS, 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 FPS 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: 2012-2 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.  
For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

The Bidder hereby certifies compliance to the required certifications, as listed above.

Supplier's Signature \_\_\_\_\_

Date \_\_\_\_\_

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement applicable to this Contract.

### 2. Statement of Requirement

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

### 3. Standard Clauses and Conditions

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

Revision to Departmental Name: As this contract is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

#### 3.1 General Conditions

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

Section 29 - Code of Conduct and Certifications - Contract of 2010A referenced above is amended as follows:

Delete subsection 29.4 in its entirety.

#### 3.2 Supplemental General Conditions

4001 (2013-01-28), Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.



**4. Term of Contract**

**4.1 Delivery Date**

All the deliverables must be received on or before March 31<sup>st</sup>, 2015

**5. Authorities**

**5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Carmelia Da Silva  
Title: Procurement and Contracting  
Organization: RCMP  
Address: 73 Leikin Drive, M1

Telephone: 613-843-3896  
E-mail address: [carmelia.dasilva@rcmp-grc.gc.ca](mailto:carmelia.dasilva@rcmp-grc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

**5.2 Project Authority**

The Project Authority for the Contract is:

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

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

The Project 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.



**5.3 Contractor's Representative**

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

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

**6. Payment**

**6.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "C" for a cost of \$ \_\_\_\_\_ (insert the amount 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.

**6.2 Single Payment**

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all such documents have been verified by Canada;
- c) the Work delivered has been accepted by Canada.

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



## 8. Certifications

### 8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- a) the Articles of Agreement;
- b) Supplemental General Conditions 4001 (2013-01-28), Hardware Purchase, Lease and Maintenance ,
- c) the general conditions 2010A (2013-04-25), General Conditions – Good (Medium Complexity)
- d) Annex A, Requirement;
- e) Annex C, Basis of Payment
- f) the Contractor's bid dated \_\_\_\_\_

## 11. Shipping Instructions – Delivery at Destination

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

Delivered Duty Paid (DDP) Yellowknife, North West Territories Incoterms 2000 for shipments from a commercial contractor.

Shipping Requirements:

Where applicable, suppliers are encouraged to:

- Minimize packaging
- Include recycled content in packaging;
- Re-use packaging;
- Include a provision for a take-back program for packaging;
- Reduce/eliminate toxics in packaging.



## 12. Procurement Ombudsman

### 12.1 Dispute Resolution Services

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will, on request, and consent of the parties, to participate in an alternative dispute resolution process to resolve any dispute between the parties respecting the interpretation or application of a term or condition of this contract and their consent to bear the cost of such process, provide to the parties a proposal for an alternative dispute resolution process to resolve their dispute.

The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at [boa.opo@boa.opo.gc.ca](mailto:boa.opo@boa.opo.gc.ca).

### 12.2 Contract Administration

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will review a complaint filed by [*the supplier or the contractor or the name of the entity awarded this contract*] respecting administration of this contract if the requirements of Subsection 22.2(1) of the *Department of Public Works and Government Services Act* and Sections 15 and 16 of the *Procurement Ombudsman Regulations* have been met, and the interpretation and application of the terms and conditions and the scope of the work of this contract are not in dispute.

The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at [boa.opo@boa.opo.gc.ca](mailto:boa.opo@boa.opo.gc.ca).

## 13. SACC Manual Clauses

G1005C Insurance, 2008-05-12  
B1501C Electrical Equipment, 2006-06-16  
B7500C Excess Goods, 2006-06-16  
B1000T Condition of Material – Bid, 2014-06-16



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**Annex A**  
**Statement of Requirement**

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## 1.0 Introduction

- 1.1 This Request for Proposal (RFP) requirements for Remote describes the site monitoring equipment for the RCMP G-Division Land Mobile Radio system.
- 1.1.1 The Remote Site Monitoring System components must be comprised of:
- 1.1.1.1 Remote Site Monitors (RSMs) with IP connectivity.
  - 1.1.1.2 Windows 7 GUI to monitor the RSMs.
  - 1.1.1.3 Remote Client software.
- 1.2 The technical parameters contained herein represent minimum functional and performance requirements. Although it is the intent of this specification to describe equipment that meets standard production equipment to the highest degree possible, certain features or functionality described may be unique to this requirement and require custom design and programming of the product(s) by the manufacturers.

## 2.0 Standards of Compliance

- 2.1 All radio equipment supplied must be type approved by Industry Canada as meeting the requirements detailed in the current issue of Radio Standard Specification RSS-119 entitled "Land Mobile and Fixed Radio Transmitters and Receivers, 27.41to960 MHZ." OR;
- 2.1.1 Where the contractor is proposing a type of radio equipment that does not fall under this Radio Standard Specification, the radio equipment must be type approved and meet the applicable Industry Canada Radio Standard Specification for that frequency band and mode of operation.
- 2.2 All associated devices or accessories that plug into AC commercial power may be supplied under this requirement must be certified under the appropriate Canada Standards Association (CSA) or Underwriters Laboratory of Canada (ULC) electrical safety standard.
- 2.3 All standards referenced in this section are to be the latest edition at the time of publishing of this purchase standard.
- 2.4 The manufacturer of the equipment provided must have ISO 9001 certification.



### 3.0 Remote Site Monitor (RSM) Requirements

#### 3.1 RSM Assembly - Physical I Electrical Requirements

- 3.1.1 A complete RSM assembly will typically include the Site Monitor interface itself, any necessary external Input I Output (I/O) interfaces.
- 3.1.2 The RSM must be of a robust design suited to operating in remote mountain top communication shelters up to 3200m AMSL (10,500 feet).
- 3.1.3 The RSM must have an operating humidity rating of 95% Relative Humidity (Non- Condensing) at +25°C.
- 3.1.4 The RSM must have an operating temperature range of -40°C to +70°C.
- 3.1.5 All RSM assembly equipment must be capable of rack mounting in a standard BIA 19" rack cabinet without the need for additional supports or rear mounting.
  - 3.1.5.1 The RSM must not exceed more than 25cm (10 inches) in depth from the rack mounting ears, and must not exceed more than 5cm (2 inches) in depth in front of the rack mounting ears.
  - 3.1.5.2 The RSM must not exceed more than 7U (standard rack units) of height (12.25" or 31.15 cm).
  - 3.1.5.3 Notwithstanding the clauses above, the individual components of the RSM assembly may be mounted in one enclosure, or may be some combination of individual assemblies.
- 3.1.6 The RSM must operate from a nominal 12v DC power source.
  - 3.1.6.1 The contractor must provide an option for 120v AC operation of the RSM by means of an internal or external power supply.
- 3.1.7 The contractor must provide the specifications for both standby current and active transmit currents at a nominal 12v DC.
  - 3.1.7.1 The RSM must not consume more than 90mA at 12v DC while in a standby state.
  - 3.1.7.2 The standby state must be defined as the state where the RSM is monitoring the status of the site inputs and Radio Link RF input, but not actively transmitting information on the Radio Link or exerting an output control.
- 3.1.8 External ports
  - 3.1.8.1 The RSM must support an RJ-45 Ethernet Jack #1 for IP connection through the RCMP LAN.





3.1.8.2 The RSM must support RJ-45 Ethernet Jack #2 for internal or on site connection to the RTU unities or to other on site network enabled equipment.

3.1.8.3 The RSM must include an RJ-11 telephone line jack for optional internal modem is included.

3.1.8.4 The RSM must include a USB port for data logging or other USB uses.

3.1.8.5 The RSM must support 128-bit encrypted IP communication

### 3.1.9 Power requirements

3.1.9.1 The RSM must have a “Power Fail” (PF) connector to monitor the main site power failures.

3.1.9.2 The unit must have an RF immunity to 10V/m.

3.1.9.3 The RSM must have an electrostatic discharge immunity to 12kV.

## 3.2 RSM Input I Output (I/O) Requirements

3.2.1 The RSM must be capable of monitoring the forward and reflected RF power from up to four site transmitters in any combination of:

3.2.1.1 Bidirectional RF VHF/UHF - 100 MHz to 500 MHz,

3.2.1.2 Bidirectional RF Power 500 MHz to 950 MHz,

3.2.1.3 P25 Digital VHF - 136 MHz to 150 MHz,.

3.2.1.4 P25 Digital UHF - 410 MHz to 470 MHz.

3.2.1.5 The RF power sampler RF connectors must be front mounted on a rack panel.

3.2.1.6 The RF power samplers must use female N Type RF connectors.

3.2.1.7 The RF power samplers must have a nominal 50 ohm input I output impedance.

3.2.1.8 The RF power samplers must have a maximum input VSWR of 1.1:1.

3.2.1.9 The RF power samplers must not have an RF insertion loss greater than 0.5 dB.

3.2.1.10 The RF power samplers must have a minimum measurement resolution of 1% of the maximum rated power or smaller.



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- 3.2.1.11 The RF power samplers must be calibrated and accurate to within +/- 5% of the maximum rated power.
  - 3.2.2 The RSM must have a minimum of two analog inputs scaled to measure the site DC battery voltages from 8 volts DC to 28 volts DC.
    - 3.2.2.1 The battery voltage measurement must be accurate to within +/- 0.5 volts DC.
    - 3.2.2.2 Single phase AC voltage sensor must monitor AC line voltage variations at remote sites
    - 3.2.2.3 Single phase AC current sensor must monitor AC line current in electrical or transmission installations
    - 3.2.2.4 The unit must have a line frequency sensor to monitor power line frequency variations in AC systems
  - 3.2.3 The RSM must have a minimum of two temperature sensors to measure the site internal (ambient) temperature, and for remote temperature measurement (for battery temperature or external ambient temperature).
    - 3.2.3.1 The temperature sensors must have a minimum temperature range of -40°C to +70°C .
    - 3.2.3.2 The temperature sensors must be accurate to within +/- 1 degree Celsius.
    - 3.2.3.3 The relative humidity must be measured and reported.
  - 3.2.4 The RSM must have eight digital inputs for Transmitter PTT indication from the Daniels MT- 4E (MOSFET switched low to common). (These inputs will be used to qualify the RF power sampler inputs to determine if there is a Transmitter power alarm condition.) The range of metering inputs should be +/- 2.45V, +/-10V and +/-20V.
  - 3.2.5 The RSM must have a minimum of 16 additional digital inputs for miscellaneous monitoring purposes such as door alarm contact, generator run contact, lightning protection failure contact, low power alarm contact, etc. The source for these digital inputs will typically be a form A contact switched to common.
  - 3.2.6 The RSM must have a minimum of eight digital outputs for site control. These outputs may be used for such things as equipment PTT, equipment reset, etc. These outputs must be an isolated form A contact output.
  - 3.2.7 The RSM must be field configurable to set high and low thresholds for all analog inputs, including battery voltages, temperature sensors, and forward reflected RF power.
    - 3.2.7.1 The RSM must be remotely configurable by the Remote Client, or some other remote configuration tool.



- 3.2.7.2 The forward and reflected power measurements must be qualified by the PTT inputs to determine if there is a low forward power or high reflected power alarm condition.
- 3.2.7.3 Analog conditions that exceed the programmed high low thresholds must immediately report the alarm condition to the Windows GUI on the network.
- 3.2.7.4 All digital inputs, including the PTT inputs, must be configurable to report an immediate alarm to the Windows GUI on the network.
- 3.2.8 The RSM must be capable of having its operating firmware remotely upgradable by a Remote Client, or some other remote upgrade tool.
- 3.2.9 The RSM must be expandable to allow for additional inputs at the same site. This could be used for sites that contain multiple radio systems.

### **3.3 RSM IP Link Requirements**

- 3.3.1 The RSM IP Link will be used to interconnect the RSM's to the Host Site GUI in Yellowknife.
- 3.3.2 The RSM Radio Link system must use a store and send protocol to allow for robust communications between the RSM's. The contractor must describe the features and specifications for the store and send protocol that they are proposing to supply.

### **3.4 Host Site Windows7 GUI Requirements**

- 3.4.1 All clauses contained in section 3.1.7 regarding the RSM assembly power consumption are not applicable to the Host Site RSM. The Host Site RSM's will always be located at sites with commercial 120v AC power and a small UPS.
- 3.4.2 The Host Site RSM's must have all of the same I/O requirements as specified in Section 3.2.
- 3.4.3 The Host Site RSM must have a 10BaseT or 100BaseT Ethernet connection to the IP network.
- 3.4.4 The Host Site RSM's must be the same equipment types as those used at the RSM sites for the purpose of common sparing and training.



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## 4.0 GUI Host Functional Requirements

### 4.1 Basic Requirements

- 4.1.1 The Host GUI is required to provide the centralized real time status keeping of site health, event logging, event reporting, notification of system events, and remote client access to the system status.
  - 4.1.1.1 The Host GUI must periodically poll the RSM's to obtain the current status and health of the site.
  - 4.1.1.2 The frequency of the periodic RSM polling must be configurable in the GUI on a site by site basis.
  - 4.1.1.3 The GUI Software must maintain a log of the results of each polling cycle.
  - 4.1.1.4 The site configurations in the GUI must be configurable by the RCMP system administrator.
  - 4.1.1.5 The round trip time to respond to a poll must not exceed five (5.0) seconds (not including IP network delays)
- 4.1.2 The GUI must be scalable to accommodate a minimum of 200 RSM's total.
- 4.1.3 There must not be an annual licensing or maintenance fee for the Central Database Software.

### 4.2 Remote Access Client Requirements

- 4.2.1 The GUI must be accessible using Remote Client software over an IP network.
  - 4.2.1.1 The Remote Client must be capable of accessing the GUI over an IP network via a VPN firewall.
  - 4.2.1.2 The Remote Client must be capable of accessing the GUI over a low bandwidth dial-up network connection.
  - 4.2.1.3 The contractor must provide specifications regarding the Remote Client to GUI protocol including TCP/UDP port numbers used.
  - 4.2.1.4 The contractor must work with the RCMP system administrator and Shared Services Canada personnel to resolve any Remote Client access issues over the RCMP VPN access.
- 4.2.2 The Remote Client may be a specific software client, or a "thin" web based client.
  - 4.2.2.1 The Remote Client software must operate on a Laptop PC with the Windows7 operating system.



- 4.2.2.2 The contractor must detail the requirements for a Remote Client PC including minimum processor, memory, hard drive storage, operating system, and any specialized software and or hardware requirements.
- 4.2.2.3 The Remote Client must display the RSM's and other devices as Icons for navigating.
- 4.2.2.4 The Remote Client must be able to logically group the RSM's and other devices into a minimum of 12 sub-districts.
- 4.2.2.5 The starting District display, the sub-District display, and the RSM device icons must give a quick indication as to the summary status.
- 4.2.2.6 Icons, Regions, and sub-districts must be displayed in Red when there is a critical alarm, Yellow when there is a non-critical event, and Green when the status is good.
- 4.2.2.7 It is desirable that the RSM's and other devices within a sub-District are displayed on the GUI on top of a map of the region.

#### **4.2.3 Site configurations display requirements**

- 4.2.3.1 All Inputs must have a configurable name.
- 4.2.3.2 All Temperature inputs must be displayed in degrees Celsius with a minimum one degree resolution.
- 4.2.3.3 Battery voltage inputs must be displayed in Volts DC with a minimum 0.1v resolution.
- 4.2.3.4 All forward and reflected RF power must be displayed in watts and use a resolution of 1% of the maximum reading.
- 4.2.3.5 The site display must have a free form text window, minimum four lines by 40 characters, to display site specific information.
- 4.2.3.6 The site display in the Remote Client must have a button (called "Poll" or "Refresh") that will force GUI to poll the site and refresh the site status displayed on the Remote Client.
- 4.2.3.7 All RSM outputs must be configurable to provide momentary or latched operation.
- 4.2.3.8 It is desirable that the site display free form text be capable of pasting in a URL address to allow direct access to a HTTP web server.



#### **4.2.4 Users must have the ability to change their password using the Remote Client.**

##### **4.2.4.1 The GUI must provide the ability to manage user rights and it is suggested that there be a minimum of three user groups:**

- a. System Administrator - These users typically would have full system rights to make system configuration changes, add delete sites, administer users, and change GUI layouts.
- b. Technician (users) -These users would typically have the ability to view site status and system logs, and change system thresholds and site information.
- c. View Only - These users typically would only be able to view site status and system logs.

#### **4.3 Event Notifications**

4.3.1 For all site parameters, the GUI must be capable of generating threshold based event notifications.

4.3.1.1 The thresholds must be configurable on a site by site basis.

4.3.2 The GUI must be able to send event notifications via SMTP Email, to multiple destination addresses.

4.3.2.1 The SMTP destination addresses must be configurable on a site by site basis.

4.3.2.2 The SMTP destination addresses must be configurable based on alarm types. For example, critical alarms may need to go to different addresses than information type events.

4.3.2.3 The SMTP Email must contain a short description of the event and information from the description field for the RSM input that generated the event.

4.3.2.4 All RSM units must have a built in SNMP agent to allow monitoring and control from a central SNMP manager. When activated, this agent will allow remote SNMP management systems to preform GETs, SETs and traps.

4.3.2.5 The units must have SNMP agent built in V1 and V2C

4.3.2.6 Alarms must be sent via E-mail with HTML or XML file attachments.

4.3.2.7 It is desirable that the GUI be capable of sending a test Email to confirm the SMTP configuration.



- 4.3.3 The GUI must be able to send a page to a numeric or text pager via a PSTN connection, to notify critical alarms.

#### **4.4 Backup and Redundancy**

- 4.4.1 The GUI must have a means of periodically backing up the site configurations and logs so they could be restored in the event of a hardware or software failure.

#### **4.5 Non-RSM Device Integration**

- 4.5.1 It is desirable that the GUI be able to manage other non-RSM based SNMP devices (such as site UPS's, RAD packet switches, etc.) on the network.

- 4.5.1.1 It is desirable that the GUI interface be able to interpret vendor specific Management Information Blocks (MIBs) for these devices.

- 4.5.1.2 It is desirable that the GUI interface also periodically poll these devices for status and I or send a network ping to ensure the device is still on the network.

#### **5.0 Customer Maintenance**

- 5.1 The RCMP operates radio communications service facilities with qualified technicians using an array of communications instrumentation and tools to provide first-line testing, maintenance and programming of the products called for and described in this document.
- 5.2 Repair beyond the practical limitations of the RCMP and any repairs during initial and extended warranty periods must be supported by the vendor or manufacturer of the products by repair depots with a Canadian address. The location address(es) of these facilities must be provided by the contractor.
- 5.3 The contractor must provide configuration and administration support, via telephone and Email, to the RCMP system administrators during normal business hours for the duration of the equipment warranty.
- 5.4 In further support of RCMP self-maintenance, full service documentation must be provided. The content of this (these) maintenance manual(s) must include:
  - 5.4.1 Technical description of circuit operation;



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- 5.4.2 Complete part's list of all modules, replacement parts and components, including reference symbols, manufacturer part numbers and description;
  - 5.4.3 Symptom/solution guide;
  - 5.4.4 Troubleshooting guide;
  - 5.4.5 Installation and test procedures; and
  - 5.4.6 Software installation and configuration guide.
- 5.5 All maintenance manuals and documentation supplied must be available in commercial grade quality printed and electronic form.
- 5.6 The contractor must guarantee (undertake) to supply spare and replacement parts during the life expectancy of the equipment which will be considered as seven (7) years from date of acceptance by the RCMP.
- 5.7 Availability of replacement parts must be within three (3) calendar weeks after receipt of order.
- 5.8 The models of the equipment supplied must remain in production for the period of the contract.
- 5.9 The contractor must supply on a regular basis, over the equipment life expectancy, service bulletins on the equipment supplied. These service bulletins must include, but are not limited to equipment modifications, software bug fixes, improved service alignment procedures, parts substitution, general servicing guidelines or warranty recall notices.
- 5.9.1 The delivery of service bulletins must be delivered to the RCMP Technical Authority via Email.
- 6.0 Packaging and Delivery**
- 6.1 The supplier must be responsible for shipping to the specified destination Yellowknife, Northwest Territories, Canada.
- 6.2 Packaging used for shipping must be of suitable strength material to protect the electronic equipment during transport and/or storage.





## **7.0 Warranty**

- 7.1 A one year factory warranty period with an option to exercise four (4) additional optional warranty periods.
- 7.2 Warranty must include full servicing of faulty equipment. The RCMP will ship units to service depots with a Canadian address.
- 7.3 Manufacturer or product warranties must not be voided if the RCMP performs any routine maintenance on the products.



**ANNEX B  
MANDATORY AND POINT RATED TECHNICAL CRITERIA**

Bidder must indicate make/model of the Radio Site Monitoring Equipment being offered: \_\_\_\_\_

Bidder must indicate whether the product being offered meets the requirement by check marking the appropriate column Met or Not Met of the Mandatory Criteria.

The Bidder must provide product brochures and data sheets to demonstrate the product being offered meets the requirement. The Bidder must specify where the information can be found in the brochure or data sheets by completing the Cross-Reference column.

Bidders must meet all the Mandatory Criteria in order to be further evaluated against the Rated Criteria. Bids not meeting the Mandatory Criteria will be given no further consideration.

**PART 1 – MANDATORY CRITERIA**

Item	Mandatory Criteria	Met	Not Met	Cross-Reference
<b>M1</b>	<p><b>Standards of Compliance</b></p> <p>2.1 All radio equipment supplied must be type approved by Industry Canada as meeting the requirements detailed in the current issue of Radio Standard Specification RSS-119 entitled "Land Mobile and Fixed Radio Transmitters and Receivers, 27.41to960 MHZ." OR;</p> <p>2.1.1 Where the contractor is proposing a type of radio equipment that does not fall under this Radio Standard Specification, the radio equipment must be type approved and meet the applicable Industry Canada Radio Standard Specification for that frequency band and mode of operation.</p> <p>2.2 All associated devices or accessories that plug into AC commercial power may be supplied under this requirement must be certified under the appropriate Canada Standards Association (CSA) or Underwriters Laboratory of Canada (ULC) electrical safety standard.</p> <p>2.3 All standards referenced in this section are to be the latest edition at the time of publishing of this purchase standard.</p> <p>2.4 The manufacturer of the equipment provided must have ISO 9001 certification.</p>			



<b>M2</b>	<p><b>Remote Site Monitor (RSM) Requirements</b></p> <p>RSM Assembly - Physical Electrical Requirements</p> <p>3.1.1 A complete RSM assembly (hereinafter called the "RSM") will typically include the Site Monitor interface itself, any necessary enteral Input I Output (I/O) interfaces.</p> <p>3.1.2 The RSM must be of a robust design suited to operating in remote mountain top communication shelters up to 3200m AMSL (10,500 feet).</p> <p>3.1.3 The RSM must have an operating humidity rating of 95% Relative Humidity (Non- Condensing) at +25°C.</p> <p>3.1.4 The RSM must have an operating temperature range of -40°C to +70°C.</p> <p>3.1.5 All RSM assembly equipment must be capable of rack mounting in a standard BIA 19" rack cabinet without thy need for additional supports or rear mounting.</p> <p>3.1.5.1 The RSM must not exceed more than 25cm (10 inches) in depth from the rack mounting ears, and must not exceed more than 5cm (2 inches) in depth in front of the rack mounting ears.</p> <p>3.1.5.2 The RSM must not exceed more than 7U (standard rack units) of height (12.25" or 31.15 cm).</p> <p>3.1.5.3 Notwithstanding the clauses above, the individual components of the RSM assembly may be mounted in one enclosure, or may be some combination of individual assemblies.</p> <p>3.1.6 The RSM must operate from a nominal 12v DC power source.</p> <p>3.1.6.1 The contractor must provide an option for 120v AC operation of the RSM by means of an internal or external power supply.</p> <p>3.1.7 The contractor must provide the specifications for both standby current and active I transmit currents at a nominal 12v DC.</p> <p>3.1.7.1 The RSM must not consume more than 90mA at 12v DC while in a standby state.</p> <p>3.1.7.2 The standby state must be defined as the state where the RSM is monitoring the status of the site inputs</p>			
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<p>and Radio Link RF input, but not actively transmitting information on the Radio Link or exerting an output control.</p> <p>3.1.8 External ports</p> <p>3.1.8.1 The RSM must support an RJ-45 Ethernet Jack #1 for IP connection through the RCMP LAN.</p> <p>3.1.8.2 The RSM must support RJ-45 Ethernet Jack #2 for internal or on site connection to the RTU unities or to other on site network enabled equipment.</p> <p>3.1.8.3 The RSM must include an RJ-11 telephone line jack for optional internal modem is included.</p> <p>3.1.8.4 The RSM must include a USB port for data logging or other USB uses.</p> <p>3.1.8.5 The RSM must support 128-bit encrypted IP communication</p> <p>3.1.9 Power requirements</p> <p>3.1.9.1 The RSM must have a “Power Fail” (PF) connector to monitor the main site power failures.</p> <p>3.1.9.2 The unit must have an RF immunity to 10V/m.</p> <p>3.1.9.3 The RSM must have an electrostatic discharge immunity to 12kV.</p> <p>3.2 RSM Input I Output (I/O) Requirements</p> <p>3.2.1 The RSM must be capable of monitoring the forward and reflected RF power from up to four site transmitters in any combination of:</p> <p>3.2.1.1 Bidirectional RF VHF/UHF - 100 MHz to 500 MHz,</p> <p>3.2.1.2 Bidirectional RF Power 500 MHz to 950 MHz,</p> <p>3.2.1.3 P25 Digital VHF - 136 MHz to 150 MHz,.</p> <p>3.2.1.4 P25 Digital UHF - 410 MHz to 470 MHz.</p> <p>3.2.1.5 The RF power sampler RF connectors must be front mounted on a rack panel.</p> <p>3.2.1.6 The RF power samplers must use female N Type RF connectors.</p> <p>3.2.1.7 The RF power samplers must have a nominal 50 ohm input I output impedance.</p>			
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<p>3.2.1.8 The RF power samplers must have a maximum input VSWR of 1.1:1.</p> <p>3.2.1.9 The RF power samplers must not have an RF insertion loss greater than 0.5 dB.</p> <p>3.2.1.10 The RF power samplers must have a minimum measurement resolution of 1% of the maximum rated power or smaller.</p> <p>3.2.1.11 The RF power samplers must be calibrated and accurate to within +/- 5% of the maximum rated power.</p> <p>3.2.2 The RSM must have a minimum of two analog inputs scaled to measure the site DC battery voltages from 8 volts DC to 28 volts DC.</p> <p>3.2.2.1 The battery voltage measurement must be accurate to within +/- 0.5 volts DC.</p> <p>3.2.2.2 Single phase AC voltage sensor must monitor AC line voltage variations at remote sites</p> <p>3.2.2.3 Single phase AC current sensor must monitor AC line current in electrical or transmission installations</p> <p>3.2.2.4 The unit must have a line frequency sensor to monitor power line frequency variations in AC systems</p> <p>3.2.3 The RSM must have a minimum of two temperature sensors to measure the site internal (ambient) temperature, and for remote temperature measurement (for battery temperature or external ambient temperature).</p> <p>3.2.3.1 The temperature sensors must have a minimum temperature range of -40°C to +70°C .</p> <p>3.2.3.2 The temperature sensors must be accurate to within +/- 1 degree Celsius.</p> <p>3.2.3.3 The relative humidity must be measured and reported.</p> <p>3.2.4 The RSM must have eight digital inputs for Transmitter PTT indication from the Daniels MT- 4E (MOSFET switched low to common). (These inputs will be used to qualify the RF power sampler inputs to determine if there is a Transmitter power alarm condition.) The range of metering inputs should be +/- 2.45V, +/-10V and +/-20V.</p> <p>3.2.5 The RSM must have a minimum of 16 additional digital inputs for miscellaneous monitoring purposes such as door alarm contact, generator run contact, lightning</p>			
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<p>protection failure contact, low power alarm contact, etc. The source for these digital inputs will typically be a form A contact switched to common.</p> <p>3.2.6 The RSM must have a minimum of eight digital outputs for site control. These outputs may be used for such things as equipment PTT, equipment reset, etc. These outputs must be an isolated form A contact output.</p> <p>3.2.7 The RSM must be field configurable to set high and low thresholds for all analog inputs, including battery voltages, temperature sensors, and forward I reflected RF power.</p> <p>3.2.7.1 The RSM must be remotely configurable by the Remote Client, or some other remote configuration tool.</p> <p>3.2.7.2 The forward and reflected power measurements must be qualified by the PTT inputs to determine if there is a low forward power or high reflected power alarm condition.</p> <p>3.2.7.3 Analog conditions that exceed the programmed high I low thresholds must immediately report the alarm condition to the Windows GUI on the network.</p> <p>3.2.7.4 All digital inputs, including the PTT inputs, must be configurable to report an immediate alarm to the Windows GUI on the network.</p> <p>3.2.8 The RSM must be capable of having its operating firmware remotely upgradable by a Remote Client, or some other remote upgrade tool.</p> <p>3.2.9 The RSM must be expandable to allow for additional inputs at the same site. This could be used for sites that contain multiple radio systems.</p> <p>3.3 RSM IP Link Requirements</p> <p>3.3.1 The RSM IP Link will be used to interconnect the RSM's to the Host Site GUI in Yellowknife.</p> <p>3.3.2 The RSM Radio Link system must use a store and send protocol to allow for robust communications between the RSM's. The contractor must describe the features and specifications for the store and send protocol that they are proposing to supply.</p> <p>3.4 Host Site Windows7 GUI Requirements</p> <p>3.4.1 All clauses contained in section 3.1.7 regarding the RSM assembly power consumption are not applicable to the Host Site RSM. The Host Site RSM's will always be located at</p>			
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	<p>sites with commercial 120v AC power and a small UPS.</p> <p>3.4.2 The Host Site RSM's must have all of the same I/O requirements as specified in Section 3.2.</p> <p>3.4.3 The Host Site RSM must have a 10BaseT or 100BaseT Ethernet connection to the IP network.</p> <p>3.4.4 The Host Site RSM's must be the same equipment types as those used at the RSM sites for the purpose of common sparing and training.</p>			
<p><b>M3</b></p>	<p><b>GUI Host Functional Requirements</b></p> <p>Basic Requirements</p> <p>4.1.1 The Host GUI is required to provide the centralized real time status keeping of site health, event logging, event reporting, notification of system events, and remote client access to the system status.</p> <p>4.1.1.1 The Host GUI must periodically poll the RSM's to obtain the current status and health of the site.</p> <p>4.1.1.2 The frequency of the periodic RSM polling must be configurable in the GUI on a site by site basis.</p> <p>4.1.1.3 The GUI Software must maintain a log of the results of each polling cycle.</p> <p>4.1.1.4 The site configurations in the GUI must be configurable by the RCMP system administrator.</p> <p>4.1.1.5 The round trip time to respond to a poll must not exceed five (5.0) seconds (not including IP network delays)</p> <p>4.1.2 The GUI must be scalable to accommodate a minimum of 200 RSM's total.</p> <p>4.1.3 There must not be an annual licensing or maintenance fee for the Central Database Software.</p> <p>4.2 Remote Access Client Requirements</p> <p>4.2.1 The GUI must be accessible using Remote Client software over an IP network.</p> <p>4.2.1.1 The Remote Client must be capable of accessing the GUI over an IP network via a VPN firewall.</p> <p>4.2.1.2 The Remote Client must be capable of accessing the</p>			



<p>GUI over a low bandwidth dial-up network connection.</p> <p>4.2.1.3 The contractor must provide specifications regarding the Remote Client to GUI protocol including TCP/UDP port numbers used.</p> <p>4.2.1.4 The contractor must work with the RCMP system administrator and Shared Services Canada personnel to resolve any Remote Client access issues over the RCMP VPN access.</p> <p>4.2.2 The Remote Client may be a specific software client, or a "thin" web based client.</p> <p>4.2.2.1 The Remote Client software must operate on a Laptop PC with the Windows7 operating system.</p> <p>4.2.2.2 The contractor must detail the requirements for a Remote Client PC including minimum processor, memory, hard drive storage, operating system, and any specialized software and or hardware requirements.</p> <p>4.2.2.3 The Remote Client must display the RSM's and other devices as Icons for navigating.</p> <p>4.2.2.4 The Remote Client must be able to logically group the RSM's and other devices into a minimum of 12 sub-districts.</p> <p>4.2.2.5 The starting District display, the sub-District display, and the RSM device icons must give a quick indication as to the summary status.</p> <p>4.2.2.6 Icons, Regions, and sub-districts must be displayed in Red when there is a critical alarm, Yellow when there is a non-critical event, and Green when the status is good.</p> <p>4.2.3 Site configurations display requirements</p> <p>4.2.3.1 All Inputs must have a configurable name.</p> <p>4.2.3.2 All Temperature inputs must be displayed degrees Celsius with a minimum one degree resolution.</p> <p>4.2.3.3 Battery voltage inputs must be displayed in Volts DC with a minimum 0.1v resolution.</p> <p>4.2.3.4 All forward and reflected RF power must be displayed in watts and use a resolution of 1% of the</p>			
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<p>maximum reading.</p> <p>4.2.3.5 The site display must have a free form text window, minimum four lines by 40 characters, to display site specific information.</p> <p>4.2.3.6 The site display in the Remote Client must have a button (called "Poll" or "Refresh") that will force GUI to poll the site and refresh the site status displayed on the Remote Client.</p> <p>4.2.3.7 All RSM outputs must be configurable to provide momentary or latched operation.</p> <p>4.2.4 Users must have the ability to change their password using the Remote Client.</p> <p>4.2.4.1 The GUI must provide the ability to manage user rights and it is suggested that there be a minimum of three user groups:</p> <ul style="list-style-type: none"><li>a) System Administrator - These users typically would have full system rights to make system configuration changes, add delete sites, administer users, and change GUI layouts.</li><li>b) Technician (users) -These users would typically have the ability to view site status and system logs, and change system thresholds and site information.</li><li>c) View Only - These users typically would only be able to view site status and system logs.</li></ul> <p>4.3 Event Notifications</p> <p>4.3.1 For all site parameters, the GUI must be capable of generating threshold based event notifications.</p> <p>4.3.1.1 The thresholds must be configurable on a site by site basis.</p> <p>4.3.2 The GUI must be able to send event notifications via SMTP Email, to multiple destination addresses.</p> <p>4.3.2.1 The SMTP destination addresses must be configurable on a site by site basis.</p> <p>4.3.2.2 The SMTP destination addresses must be configurable based on alarm types. For example, critical alarms may need to go to different addresses than</p>			
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	<p>info1mation type events.</p> <p>4.3.2.3 The SMTP Email must contain a short description of the event and information from the description field for the RSM input that generated the event.</p> <p>4.3.2.4 All RSM units must have a built in SNMP agent to allow monitoring and control from a central SNMP manager. When activated, this agent will allow remote SNMP management systems to preform GETs, SETs and traps.</p> <p>4.3.2.5 The units must have SNMP agent built in V1 and V2C</p> <p>4.3.2.6 Alarms must be sent via E-mail with HTML or XML file attachments.</p> <p>4.3.3 The GUI must be able to send a page to a numeric or text pager via a PSTN connection, to notify critical alarms.</p> <p>4.4 Backup and Redundancy</p> <p>4.4.1 The GUI must have a means of periodically backing up the site configurations and logs so they could be restored in the event of a hardware or software failure.</p>			
<p><b>M4</b></p>	<p><b>5.0 Customer Maintenance</b></p> <p>5.1 The RCMP operates radio communications service facilities with qualified technicians using an array of communications instrumentation and tools to provide first-line testing, maintenance and programming of the products called for and described in this document.</p> <p>5.2 Repair beyond the practical limitations of the RCMP and any repairs during initial and extended warranty periods must be supported by the vendor/manufacturer of the products by repair depots with a Canadian address. The location address(es) of these facilities must be provided by the contractor.</p> <p>5.3 The contractor must provide configuration and administration support, via telephone and Email, to the RCMP system administrators during normal business hours for the duration of the equipment warranty.</p> <p>5.4 In further support of RCMP self-maintenance, full service documentation must be provided. The content of this (these) maintenance manual(s) must include:</p> <p>5.4.1 Technical description of circuit operation;</p>			



	<p>5.4.2 Complete part's list of all modules, replacement parts and components, including reference symbols, manufacturer part numbers and description;</p> <p>5.4.3 Symptom/solution guide;</p> <p>5.4.4 Troubleshooting guide;</p> <p>5.4.5 Installation and test procedures; and</p> <p>5.4.6 Software installation and configuration guide.</p> <p>5.5 All maintenance manuals and documentation supplied must be available in commercial grade quality printed and electronic form.</p> <p>5.6 The contractor must guarantee (undertake) to supply spare and replacement parts during the life expectancy of the equipment which will be considered as seven (7) years from date of acceptance by the RCMP.</p> <p>5.7 Availability of replacement parts must be within three (3) calendar weeks after receipt of order.</p> <p>5.8 The models of the equipment supplied must remain in production for the period of the contract.</p> <p>5.9 The contractor must supply on a regular basis, over the equipment life expectancy, service bulletins on the equipment supplied. These service bulletins must include, but are not limited to equipment modifications, software bug fixes, improved service alignment procedures, parts substitution, general servicing guidelines or warranty recall notices.</p> <p>5.9.1 The delivery of service bulletins must be delivered to the RCMP Technical Authority via Email.</p>			
<p><b>M5</b></p>	<p><b>Packaging and Delivery</b></p> <p>6.1 The supplier must be responsible for shipping to the specified destination Yellowknife, Northwest Territories, Canada.</p>			



<b>M6</b>	<p><b>Warranty</b></p> <p>7.1 A one year factory warranty period with an option to exercise four (4) additional optional warranty periods.</p> <p>7.2 Warranty must include full servicing of faulty equipment. The RCMP will ship units to service depots with a Canadian address.</p> <p>7.3 Manufacturer or product warranties must not be voided if the RCMP performs any routine maintenance on the products.</p>			
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The Bidder must provide product brochures and data sheets to demonstrate the product being offered meets the Point Rated Requirement. The Bidder must specify where the information can be found in the brochure or data sheets by completing the Cross-Reference column.

**PART 2 - POINT RATED CRITERIA**

No. & SOW Reference Number	Point rated Criteria on Bidder's proposed equipment	Evaluation Points(pts)
<b>GUI Host Functional Requirements</b>		
R2 4.2.2.7	It is desirable that the RSM's and other devices within a sub-District are displayed on the GUI on top of a map of the region.	Sub-District Display = 5 pts No = 0 pts
<b>Site configurations display requirements</b>		
R3 4.2.3.8	It is desirable that the site display free form text be capable of pasting in a URL address to allow direct access to a HTTP web server.	Direct access to server = 5 pts No = 0 pts
<b>Event Notifications</b>		
R4 4.3.2.7	It is desirable that the GUI be capable of sending a test Email to confirm the SMTP configuration.	Sending Test Email = 5 pts Not capable = 0 pts
<b>Non-RSM Device Integration</b>		
R5 4.5.1	It is desirable that the GUI be able to manage other non-RSM based SNMP devices (such as site UPS's, RAD packet switches, etc.) on the network.	Manage non-RSM based devices = 10 pts No = 0 pts
R6 4.5.1.1	It is desirable that the GUI interface be able to interpret vendor specific Management Information Blocks (MIBs) for these devices.	MIB interpretation = 5 pts No = 0 pts
R7 4.5.1.2	It is desirable that the GUI interface also periodically polls these devices for status and send a network ping to ensure the device is still on the network.	Sending Network ping = 5 pts No network Ping = 0 pts
MAXIMUM POINTS ALLOCATED		= 35 pts
MINIMUM POINTS ALLOCATED		= 0 pts

**Note: Points will not be awarded where the supporting information is incomplete or not provided.**



**Annex C**

**BASIS OF PAYMENT**

The Contractor must supply and deliver the items detailed herein to the Royal Canadian Mounted Police at the destination specified on page 1 of the Contract.

Bids are firm, all inclusive unit prices in Canadian dollars, DDP Destination, customs duties included, GST/HST extra if applicable. For evaluation purposes, bids will be evaluated based on "Total Evaluated Price".

Item No.	Description of Requirement	Unit Price	Unit of Issue	Quantity	Total Price
1	Radio Site Monitoring Equipment		EACH	30	
<b>Firm Price(CDN)</b>					

**Optional Goods or Services**

The RCMP reserves the right to exercise the following options within 60 days prior to end of warranty period.

Item No.	Description of Requirement	Option Year 1 (A)	Option Year 2 (B)	Option Year 3 (C)	Option Year 4 (D)	Total Price (A+B+C+D)
1	Additional Warranty Periods					

Item No.	Description of Requirement	Total Price
1	Radio Site Monitoring Equipment	
2	Additional Warranty Periods (A+B+C+D)	
<b>Total Evaluated Price</b>		