



<p>RETURN BIDS TO: RETOURNER LES SOUMISSIONS À:</p> <p>Bid Receiving – Environment and Climate Change Canada / Réception des soumissions – Environnement et Changement climatique Canada 9250 49 Street Edmonton, AB T6B 1K5</p> <p>BID SOLICITATION DEMANDE DE SOUMISSIONS</p> <p>PROPOSAL TO: ENVIRONMENT AND CLIMATE CHANGE CANADA</p> <p>We offer to perform or provide to Canada the services detailed in the document including any attachments and annexes, in accordance with the terms and conditions set out or referred to in the document, at the price(s) provided.</p> <p>SOUSSION À: Environnement et Changement climatique Canada</p> <p>Nous offrons d'effectuer ou de fournir au Canada, aux conditions énoncées ou incluses par référence dans le document incluant toutes pièces jointes et annexes, les services détaillés dans le document, au(x) prix indiqué(s).</p>	<p>Title – Titre</p> <p>Weather Observation Services, Fort Nelson, BC</p>	
	<p>EC Bid Solicitation No. /SAP No. – N° de la demande de soumissions EC / N° SAP 5000033297</p>	
	<p>Date of bid solicitation 2017-11-16 – Date de la demande de soumissions 2017-11-16</p>	
	<p>Bid solicitation closes 2017-12-12 - La demande de soumissions prend fin 2017-12-12</p> <p>at – à 2:00 P.M. on – le</p>	<p>Time Zone – Fuseau horaire</p> <p>Mountain Standard Time</p>
	<p>F.O.B – F.A.B Destination</p>	
	<p>Address Enquiries to - Adresser toutes questions à</p> <p>Cyndi Ryan Email: cyndi.ryan@canada.ca</p>	
	<p>Telephone No. – N° de téléphone 780-951-8659</p>	<p>Fax No. – N° de Fax Does not apply</p>
	<p>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ)</p> <p>As discussed in the Statement of Work here within</p>	
	<p>Destination - of Services / Destination des services Environment and Climate Change Canada Fort Nelson, BC</p>	
	<p>Security / Sécurité The successful bidder must meet the security requirements prior to contract award.</p>	
<p>Vendor/Firm Name and Address - Raison sociale et adresse du fournisseur/de l'entrepreneur</p>		
<p>Telephone No. – N° de téléphone</p>	<p>Fax No. – N° de Fax</p>	
<p>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)</p>		
<p>Signature</p>	<p>Date</p>	

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION

1. Introduction
2. Summary
3. Debriefing

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Former Public Servants – Competitive Bid
4. Enquiries - Bid Solicitation
5. Applicable Laws
6. Basis for Canada's Ownership of Intellectual Property

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

PART 4 - EVALUATION PROCEDURES, BID EVALUATION CRITERIA AND BASIS OF SELECTION

1. Evaluation Procedures
2. Technical Bid Evaluation Criteria, including Mandatory and Point-rated technical criteria
3. Financial Bid Evaluation
4. Basis of Selection

PART 5 - CERTIFICATIONS

1. Certifications Required Precedent to Contract Award

PART 6 – SECURITY AND OTHER REQUIREMENTS

1. Security Requirement
2. Insurance Requirements

PART 7 - RESULTING CONTRACT

1. Statement of Work
2. Standard Clauses and Conditions
3. Security Requirement
4. Term of Contract
5. Authorities
6. Proactive Disclosure of Contracts with Former Public Servants
7. Payment
8. Invoicing Instructions
9. Certifications
10. Applicable Laws
11. Priority of Documents
12. Government Site Regulations
13. Insurance Requirements
14. Shipment of Hazardous Goods

List of Annexes:

Annex A	Statement of Work
	Appendix 1 Additional Requirements of the Work under the Resulting Contract
	Appendix 2 Penalties for Non-Performance
	Appendix 3 Hazards
	Appendix 4 Applicable documents
Annex B	Basis of Payment and Financial Bid Evaluation Sheet and
Annex C	Security Requirements Check List
Annex D	Federal Contractors Program for Employment Equity - Certification
Annex E	Insurance requirements
Annex F	List of Names for Integrity Verification Form
Annex G	Work Experience Template
Annex H	Letter of Availability and Willingness to perform the Work under the Contract
Annex I	Former Public Servant – Competitive Bid Form”.

TITLE: Weather Observation Services, Fort Nelson, BC

PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures, Evaluation Criteria and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Federal Contractors Program for Employment Equity - Certification, Insurance Requirements, the Integrity Regime Form, the Work Experience Template the Letter of Availability and Willingness to perform the Work, and the Former Public Servant – Competitive Bid Form.

2. Summary

- 2.1 Environment and Climate Change Canada has a requirement for ongoing Weather Observation Services in Fort Nelson, BC, as detailed in the Statement of Work, Annex A to the bid solicitation. The period of the contract is from date of award for three (3) years plus three (3) additional one (1) year option periods. The Contractor's main responsibilities will be to prepare the instruments, release the balloons twice each day and ensure the prompt transmittal of the data. The work will also involve the management and provision of personnel to conduct the observing, recording, encoding and transmitting Aerological and Surface Weather and Supplementary programs.
 - 2.2 There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security and Other Requirements and Part 7 - Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, bidders should refer to the Canadian Industrial Security Directorate (CISD), Industrial Security Program of Public Works and Government Services Canada website (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>).
- Note that on February 1, 2017, Public Services and Procurement Canada (PSPC) implemented the new mandatory criminal record check process, which requires electronic fingerprinting. Learn when mandatory electronic fingerprints are required and why the Contract Security Program implemented this change.
<https://www.tpsgc-pwgsc.gc.ca/esc-src/personnel/empreintes-obligatoire-mandatory-fingerprints-eng.html>
- 2.3 Bidders must provide a list of names as per Annex F, or other related information as needed, pursuant to section 01 Integrity Provisions of Standard Instructions 2003.
 - 2.4 For services requirements, bidders in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the bid solicitation.

- 2.5 The requirement is not subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP).

The requirement is exempt from the North American Free Trade Agreement (NAFTA), Excluded Coverage, Annex 1001.1.b-2 Services, Section B, R102, Weather Reporting Observations Services.

The Agreement on Internal Trade (AIT) applies to this procurement.

- 2.6 There is a Federal Contractors Program (FCP) for employment equity requirement associated with this procurement; see Part 5 – Certifications, Part 7 – Resulting Contract Clauses and the annex named Federal Contractors Program for Employment Equity – Certification.

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the PWGSC *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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The standard instructions 2003 are modified as follows:

Under "Text" at 02:

Delete: "Procurement Business Number"

Insert: "Deleted"

At Section 02 Procurement Business Number

Delete: In its entirety

Insert: "Deleted"

At Section 05 Submission of Bids, Subsection 05 (2d):

Delete: In its entirety

Insert: "send its bid only to Environment and Climate Change Canada (ECCC) as specified on page 1 of the bid solicitation or to the address specified in the bid solicitation;"

At Section 05 Submission of Bids, Subsection 05 (4):

Delete: 60 days

Insert: 120 days

At Section 06 Late Bids:

Delete: "PWGSC"

Insert: "Environment and Climate Change Canada (ECCC)"

At Section 07 Delayed Bids:

Delete: "PWGSC"

Insert: "Environment and Climate Change Canada (ECCC)"

At Section 08 Transmission by Facsimile, Subsection 08 (1):

Delete: In its entirety

Insert: "Bids may be submitted by facsimile if specified in the bid solicitation."

At Section 12 Rejection of Bid, Subsection 12 (1) a. and b.:

Delete: In their entirety

Insert: "Deleted"

At Section 17 Joint Venture, Subsection 17 (1) b.:

Delete: "the Procurement Business Number of each member of the joint venture,"

Insert: "Deleted"

At Section 20 Further Information, Subsection 20 (2):

Delete: In its entirety

Insert: "Deleted"

1.1 PWGSC SACC Manual Clauses

1.1.1 A7035T (2007-05-25) List of Proposed Subcontractors

If the bid includes the use of subcontractors, the Bidder agrees, upon request from the Contracting Authority, to provide a list of all subcontractors including a description of the things to be purchased, a description of the work to be performed and the location of the performance of that work. The list should not include the purchase of off-the-shelf items, software and such standard articles and materials as are ordinarily produced by manufacturers in the normal course of business, or the provision of such incidental services as might ordinarily be subcontracted in performing the Work.

2. Submission of Bids

Bids must be submitted to Environment and Climate Change Canada (ECCC) at the address and by the date, time and place indicated on page 1 of the bid solicitation.

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

Bids are to be directed only to the bid receiving address specified. ECCC will **NOT** assume responsibility for bids directed to any other location.

3. Former Public Servant – Competitive Bid

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.

4. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Inquiries 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.

5. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of British Columbia.

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.

6. Basis for Canada's Ownership of Intellectual Property

Environment and Climate Control Canada has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada, on the following grounds:

- The main purpose of the contract, or of the deliverables contracted for, is to generate knowledge and information for public dissemination.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (3 hard copies)

Section II: Financial Bid (3 hard copies)

Section III: Certifications (3 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>). 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; and
- 3) print on both sides of the paper.

Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Part 4, Evaluation Procedures, contains additional instructions that bidders should consider when preparing their technical bid.

Section II: Financial Bid

- 1.1 Bidders must submit their financial bid in Canadian funds and in accordance with the Basis of Payment/Financial Bid Evaluation Sheet in Annex B. The total amount of Applicable Taxes must be shown separately. All information relating to price must appear only in the financial bid. No price may be indicated in any other section of the bid. The bid must cover the prescribed length of the contract, including option years.
- 1.2 Bidders should include the following information in their financial bid:
 - (a) Their legal name; and
 - (b) The name of the contact person (including this person's mailing address, phone and facsimile numbers and email address) authorized by the Bidder to enter into communications with Canada with regards to their bid; and any contract that may result from their bid.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES, TECHNICAL AND FINANCIAL BID EVALUATION CRITERIA, 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 Introduction

To meet the requirement described herein, the experience of the Bidder must be work for which the Bidder was under contract to clients exterior to the Bidder's own organization. In the case of a joint venture, the combined experience of the parties forming the joint venture will be considered in the evaluation of the experience of the bidder.

Listing experience without providing any supporting data to describe where and how such experience was obtained will result in the experience not being included for evaluation purposes.

1.2 Evaluation Process

All bids will be evaluated in accordance with the process outlined in this Article.

The Evaluation Process and Contractor Selection are subdivided into four stages:

- i. Evaluation of compliance with the Mandatory Technical Evaluation Criteria
- ii. Evaluation of the Point-Rated Technical Evaluation Criteria
- iii. Evaluation of the Financial Bid
- iv. Basis of Selection of the winning bidder

Bidders will not be given any information regarding the status of their bid, any preliminary scores or results relating thereto, or any similar details until such time as the evaluation of all bids has been completed and a Contract has been awarded.

Notwithstanding that the evaluation and selection methodology will be conducted in Stages, the fact that Canada has proceeded to any next stage shall not be deemed to mean that Canada has conclusively determined that the proposal has successfully passed all the previous Stages.

2. Technical Evaluation Criteria

Proposed resources may be employees of the Bidder or employees of a subcontractor, or these individuals may be independent contractors to whom the Bidder would subcontract a portion of the Work

For bid evaluation criteria where the experience of proposed resources is provided, Bidders are advised that the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience. For example: Project 1 time frame is July 2001 to December 2001; Project 2 times frame is October 2001 to January 2002; the total months of experience for these two projects references is seven (7) months.

It is the Bidder's responsibility to ensure that a sufficient level of information is included in the proposal to allow the evaluation team to make an accurate assessment of the bid.

2.1 Mandatory Technical Evaluation Criteria:

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

	Compliant (Yes / No)
<p>M1. In its bid, the Bidder must designate one (1) station manager resource and two (2) support resources (three (3) resources in total).</p>	
<p>M2. For each of the proposed resources, including the station manager, the Bidder must provide a signed letter confirming the availability and willingness of its resource to perform the Work under the resulting Contract.</p> <p>The Bidder must do this using the template provided under Annex H, Letter of Availability and Willingness to perform the Work under the Contract, for each of the proposed resources.</p>	
<p>M3. For each of the proposed resources, the Bidder must provide a resume using the work experience template (Annex G). This template will be used to evaluate each resource. The following information should be provided:</p> <ul style="list-style-type: none"> a. Name of the resource; b. Education; c. Certifications; d. Name of the organization the work was performed for; e. Title of the Project/work or contract name; f. Role and responsibilities of the proposed resource, including a description of the work performed; g. Start date (specify month and year); h. End date (specify month and year); i. Total number of year; including if the work is still in progress; j. Name and contact information (phone number, e-mail) of a reference who will confirm the information supplied by the Bidder. 	

2.2 Point-Rated Technical Evaluation Criteria:

Each bid will be rated by assigning a score to the rated requirements, which are identified in the bid solicitation by the word "rated" or by reference to a score. Bidders who fail to submit complete bids with all the information requested by this bid solicitation will be rated accordingly.

For the bid to be valid, the bidder must obtain a minimum pass mark of 163 points score within the technical evaluation based on the following grid. Bids that obtain less than 163 points will be considered non-responsive.

* note 1: for criteria R1 – R4, partial marks (refer to note 2) will be awarded if the rated element is addressed in the Bidder’s plan, but not in a sufficiently detailed manner, or where minor but observable weaknesses are identified. Consequently, the plan provides a reasonable but not a high level of assurance that activities will be carried out successfully.

* note 2: for criteria R1-R4, for elements rated out of a maximum of 20 points, 10 points will be awarded for partial marks. For elements rated on a 10 point basis, partial marks of 5 points will be awarded. Zero marks will be awarded for bids where an element is addressed, but where major weaknesses or flaws are identified, or where important information is missing altogether from the bid.

Max Points available Awarded Score	Point Allocation
<p>R1. Plan for the Execution of the Observation program (30 points)</p> <p>The Bidder should provide a detailed plan describing how it plans to perform tasks in support of the Aerological Observation Program and Data Collection requirements.</p>	<p>The Bidder’s plan includes a detailed description of the tasks to be performed including a task list, a sequence of launch times, requirements for second releases, delayed releases, missed observations, as well as snow and ice surveys. (20 points)</p> <p>The Bidder’s plan is supported by detailed references to the Manual of Upper Air Observations (MANUP) as a standard for observations, with emphasis on timeliness, accuracy and methods. (10 points)</p>
<p>R2. Plan for the execution of the Maintenance Work. (30 points)</p> <p>Bidder should provide a detailed plan that demonstrates how it will conduct maintenance of the station.</p>	<p>The Bidder’s plan includes a detailed schedule of maintenance tasks, including housekeeping, checking fuel levels, met supply, inventory check, monthly Occupational Health and Safety (OHS) report. (20 points)</p> <p>The Bidder’s plan includes a detailed description of how it plans to perform snow clearing at the entrance of the station after each snow fall, and also how it plans to execute repairs in the event of equipment breakdown or failure (10 points)</p>
<p>R3. Plan for the monitoring of observations and quality control (30 points)</p> <p>The Bidder should provide a detailed plan that describes how it will monitor observations and perform quality control.</p>	<p>The Bidder’s plan demonstrates that the resources assigned to monitor observations are the same people as those assigned to the conduct of observations program activities. (10 points)</p> <p>The Bidder’s plan provides a detailed schedule of quality assurance tasks, including the production of monthly error reports, and how anomalies will be tracked and reported against after incomplete observations. (20 points)</p>

<p>R4. Personnel Allocation Plan (30 points)</p> <p>The Bidder should describe its plan for allocating personnel who are tasked to perform work under the Contract.</p>	<p>The Bidder's plan provides a rotation schedule for 60 calendar days. The schedule demonstrates the allocation of tasks between resources dedicated to the contract, including plans to ensure continuity of service during holidays, travel times, or when someone is absent. (10 points)</p> <p>The Bidder's plan describes the procedure to ensure observations are not missed when observer is absent for extended period of time (10 points)</p> <p>The Bidder's plan includes a description of how roles and responsibilities will be delegated between the station manager and the proposed resources for the conduct of aerological observations, monthly reporting, and maintenance of the facilities (10 points)</p>
<p>R5. Occupational Health and Safety (OHS) Plan. (36 points)</p> <p>The Bidder should provide a detailed Occupational Health and Safety (OHS) Plan.</p>	<p>Emergency contact information</p> <ul style="list-style-type: none"> ▪ 12 points Emergency contact information has been provided for each of the following: <ul style="list-style-type: none"> ▪ Fire department ▪ Police station ▪ Ambulance ▪ Hospital/medical centre ▪ Poison Control Centre ▪ Pollution / spill reporting <p>2 points will be awarded for each of the above contacts.</p> <p>Details on how the bidder will ensure the OHS Policy is followed by proposed resources, including how unacceptable adherence to these policies will be handled</p> <ul style="list-style-type: none"> ▪ 12 points: The bid contains a detailed comprehensive level of detail on how the bidder will ensure the OHS Policy is followed by proposed resources, including how unacceptable adherence to these policies will be handled. ▪ 6 points: The bid contains an acceptable level of detail, with minor weaknesses. There is a reasonable likelihood that the OHS will be followed by proposed resources. ▪ 0 points: The bid does not contain any detail, or the level of detail provided is inadequate. <p>Details on how the bidder will ensure the safety and health of the proposed personnel while they are working alone on station</p> <ul style="list-style-type: none"> ▪ 12 points: The bid contains a comprehensive level of detail on how the bidder will ensure the safety and health of the proposed resource while they are working alone on station. ▪ 6 points: The bid contains an acceptable level of detail, with minor weaknesses. There is a reasonable likelihood that the OHS will be followed by proposed resources. ▪ 0 points: The bid does not contain any detail, or the level of detail provided is inadequate.

<p>R6. Bidders Corporate Experience (25 points) The Bidder should demonstrate its experience in administering similar contracts (e.g. aerology, meteorology or aviation).</p>	<p>Five (5) points for each year administering similar contracts, up to a max of twenty-five (25) points.</p> <p>* Note: points will only be awarded for the corporate experience of the Bidder (i.e. the firm's experience). Points will not be awarded under this criterion for the experience of individuals, including the station manager or the observers.</p>
<p>R7. Experience of the Delegated Station Manager (30 points)</p>	
<p>Experience supervising a team</p>	<p>One (1) point for each year of substantial experience up to a maximum of ten (10) points.</p> <p>Experience of less than one (1) year will not be given any points</p>
<p>Demonstrated experience in the performance of similar contracts of aerology and meteorology as identified in Annex A</p>	<p>One (1) point for each year of substantial experience up to a maximum of ten (10) points. Experience of less than one (1) year will not be given any points</p>
<p>Holds a certification as an operator in aerology or meteorology</p>	<p>Five (5) points: Current Certification; Two (2) points Expired Certification; 0points No Certification</p>
<p>Holds a Secondary school Diploma</p>	<p>Five (5) points or zero (0) points</p>
<p>R8. Experience of the proposed contract personnel (40 points)</p>	
<p>Proposed Contract Resource #1 (20 points)</p>	
<p>Demonstrate experience in the performance of similar contracts of aerology and meteorology as identified in Annex A</p>	<p>One (1) point for each year of substantial experience up to a maximum of ten (10) points per resource.</p> <p>Experience of less than one (1) year will not be given any points</p>
<p>Holds a certification as an operator in aerology or meteorology</p>	<p>Up to Five (5) points for each proposed resource:</p> <p>Five (5) points: Current Certification; Two (2) points Expired Certification; Zero (0) points No Certification</p>
<p>Holds a Secondary school Diploma</p>	<p>Five (5) points</p>
<p>Proposed Contract Resource #2 (20 points)</p>	
<p>Demonstrate experience in the performance of similar contracts of aerology and meteorology as identified in Annex A</p>	<p>One (1) point for each year of substantial experience up to a maximum of ten (10) points per resource.</p> <p>Experience of less than one (1) year will not be given any points</p>
<p>Holds a certification as an operator in aerology or meteorology</p>	<p>Up to Five (5) points for each proposed resource:</p> <p>Current Certification; Two (2) points Expired Certification; zero (0) points No Certification</p>
<p>Holds a Secondary school Diploma</p>	<p>Five (5) points</p>
<p>Minimum Pass Mark Total Score</p>	<p>163 points 251 points</p>

3. Evaluation of the Financial Bid;

Once the technical evaluation scores are established for all bids, the Financial Bid will be opened and evaluated by the Contracting Authority. The technical scores will not be changed once the financial bids are opened.

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian customs duties and excise taxes included.

The Total Bid Price for Evaluation will be established as per Annex B – Basis of Payment/ Financial Bid Evaluation Sheet. Bidders must complete all cells within Annex B in order for their bid to be deemed responsive. Note: a cell cannot remain blank. If an amount of \$0.00 or NIL is provided in the Bid for a portion of the Work, the Bidder must understand that all related work must be performed for the dollar value indicated in the Bid (i.e. \$0).

The financial bid will be the total combined costs of all columns listed in Annex B – Basis of Payment - Table 1.1, Table 1.2, Table 1.3, Table 1.4, Table 1.5 and Table 1.6.

Failure to complete Annex B – Financial Bid Evaluation Sheet and Basis of Payment, as per the instructions above, will render the bid non-responsive.

4. Basis of Selection

Lowest price per point responsive bid (50%) and Price (50%)

- (a) To be declared responsive, a bid must:
- (i) comply with all the requirements of the bid solicitation
 - (ii) meet all mandatory technical evaluation criteria
 - (iii) obtain the required minimum of 163 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 251 points;
- (b) Bids not meeting (i) or (ii) or (iii) will be declared non-responsive.
- (d) 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 bid obtaining the highest technical evaluation shall be awarded 50 points; all other bids deemed acceptable shall be prorated.

The lowest technically eligible financial bid will be awarded 50 points; all other technically eligible bids will be prorated.

The sum of the technical and financial scores is used to determine the final score. The contract will be awarded to the firm obtaining the highest overall score. Where several bids are equal, the one with the highest technical rating will be selected.

$$\text{Technical Score} = \frac{\text{Bidder's Points}}{251} \times 50\% = \text{XXX}$$

$$\text{Financial Score} = \frac{\text{Lowest Bid}}{\text{Bidder's Cost}} \times 50\% = \text{XXX}$$

$$\text{Total Score} = \text{Technical Score} + \text{Financial Score}$$

NOTE:

In this requirement “Nunavut Representations” will allow for up to a maximum of 10% downward adjustment to a proponent’s price, **for evaluation purposes only**, in accordance with the Bid Criteria found in 6.4.2 of this RFP document.

Example of calculation

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		163/251	175/251	225/251
Bid Evaluation Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	$163/251 \times 50 = 32.47$	$175/251 \times 50 = 34.86$	$225/251 \times 50 = 44.82$
	Pricing Score	$45/55 \times 50 = 40.91$	$45/50 \times 50 = 45$	$45/45 \times 50 = 50$
Combined Rating		73.38	79.86	94.82
Overall Rating		3rd	2nd	1st

PART 5 - CERTIFICATIONS

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

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

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

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true. The Bidder must complete the attached "List of Names for Integrity Verification Form" found in Annex – F.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

1.3 Former Public Servant – Competitive Bid

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.

The Bidder must complete the attached "Former Public Servant – Competitive Bid Form" found in Annex – I.

2. Additional Certifications Required Precedent to Contract Award

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

2.1 Education and Experience

SACC Manual Clause A3010T (2010-08-16) Education and Experience

PART 6 – SECURITY AND OTHER REQUIREMENTS

1. Security Requirement

The successful Contractor MUST:

- 1.1 Before award of a contract, the following conditions must be met:
 - (i) the Bidder must hold a valid security clearance as indicated in Part 7 - Resulting Contract Clauses;
 - (ii) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 7 - Resulting Contract Clauses;
 - (iii) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
- 1.2 Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
- 1.3 For additional information on security requirements, bidders should refer to the Canadian Industrial Security Directorate (CISD), Industrial Security Program of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website.
- 1.4 Bidders are advised that, on February 1, 2017, Public Services and Procurement Canada (PSPC) implemented the new mandatory criminal record check process, which requires electronic fingerprinting. Learn when mandatory electronic fingerprints are required and why the Contract Security Program implemented this change.
<https://www.tpsgc-pwgsc.gc.ca/esc-src/personnel/empreintes-obligatoire-mandatory-fingerprints-eng.html>

2. Insurance Requirements

PWGSC SACC Manual clause G1007T (2016-01-28) Insurance – Proof of Availability Prior to Contract Award

The Bidder must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Annex E, Insurance Requirements.

The Bidder is not required to purchase the insurance until in receipt of Notification of Contract award through a letter of intent.

If the information is not provided in the bid, 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.

PART 7 - RESULTING CONTRACT

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

Title: Weather Observation Services, Fort Nelson, BC

1. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex A and the Contractor's technical bid entitled _____, dated _____.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the PWGSC *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.

2.1 General Conditions

2035 (2016-04-04), General Conditions - Higher Complexity - Services, apply to and form part of the Contract.

General conditions 2035 is modified as follows:

At Section 06 Subcontracts

Delete: paragraphs 1, 2, and 3 in their entirety.

Insert: "The Contractor may subcontract the supply of goods or services that are customarily subcontracted by the Contractor. Subcontracting does not relieve the Contractor from any of its obligations under the Contract or impose any liability upon Canada to a subcontractor. In any subcontract, the Contractor agrees to bind the subcontractor by the same conditions by which the Contractor is bound under the Contract, unless the Contracting Authority agrees otherwise, with the exception of requirements under the Federal Contractors Program for employment equity which only apply to the Contractor."

At Section 14 Transportation Costs

Delete: In its entirety

Insert: "Deleted"

At Section 15 Transportation Carriers' Liability

Delete: In its entirety.

Insert: "Deleted"

At Section 20 Copyright

Delete: In its entirety

Insert: "Deleted"

Insert Subsection: "35 Liability"

"The Contractor is liable for any damage caused by the Contractor, its employees, subcontractors, or agents to Canada or any third party. Canada is liable for any damage caused by Canada, its employees or agents to the Contractor or any third party. The Parties agree that no limitation of liability or indemnity provision applies to the Contract unless it is specifically incorporated in full text in the Articles of Agreement. Damage includes any injury to persons (including injury resulting in

death) or loss of or damage to property (including real property) caused as a result of or during the performance of the Contract.”

2.2 Specific Person(s)

The Contractor must provide the services of the following person(s) to perform the Work as stated in the Contract:

3. Security Requirement

1. The Contractor and its personnel must, at all times during the performance of the Contract, hold a valid **RELIABILITY STATUS**.
2. The Contractor/Offeror must comply with the provisions of the:
 - a. Security Requirements Check List and security guide (if applicable), attached at Annex 'C';
 - b. *Industrial Security Manual* (Latest Edition).

4. Term of Contract

4.1 Period of the Contract

A9022C (2007-05-25) Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive.

4.2 Option to Extend the Contract

A9009C (2008-12-12) Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three (3) additional one (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at any time before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

4.3 Transition Period

A0078C (2008-05-12) Transition Period

The Contractor acknowledges that the nature of the services provided under the Contract requires continuity and that a transition period may be required at the end of the Contract. The Contractor agrees that Canada may, at its discretion, extend the Contract by a period of six (6) months under the same conditions to ensure the required transition. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

The Contracting Authority will advise the Contractor of the extension by sending a written notice to the Contractor at least thirty (30) calendar days before the contract expiry date. The extension will be evidenced for administrative purposes only, through a contract amendment.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Will be identified at contract award.

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

5.2 Technical Authority – to be announced upon contract award

The Technical Authority for the Contract is:

Will be identified at contract award.

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

5.3 Contractor's Representative – to be announced upon contract award

Will be identified at contract award.

6. Proactive Disclosure of Contracts with Former Public Servants - if applicable

By providing information on its status, with respect to being a former public servant in receipt of a *Public Service Superannuation Act* (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

7. Payment

7.1 Basis of Payment

7.1.1 Limitation of Expenditure

7.1.1 Canada's total liability to the Contractor under the Contract must not exceed \$_____, Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

7.1.2 No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any

work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

- a) when it is 75 percent committed, or
- b) four (4) months before the contract expiry date, or
- c) as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.

- 7.1.3** If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

7.2 Terms of Payment

H1008C (2008-05-12) Monthly Payment

7.3 SACC Manual Clauses

A9117C (2007-11-30) T1204 - Direct Request by Customer Department
C0711C (2008-05-12) Time Verification

8. Invoicing Instructions

- 8.1 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:

- Monthly Aerological Station Record
- Monthly Stock Report
- Cost Reimbursable Receipts, if applicable

8.2 Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the address shown on page 3, Sec. 5.2, Technical Authority, of the Contract for certification and payment.

9. Certifications

9.1 Compliance

Compliance with the certifications 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 or 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.

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

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

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of British Columbia.

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) 2035 General Conditions - Higher Complexity – Services (2016-04-04) as modified;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Security Requirements Check List;
- (f) Annex D, Federal Contractors Program for Employment Equity - Certification;
- (g) Annex E, Insurance Requirements;
- (h) Annex 'F', Supplier list of names;
- (i) Annex 'G' Work Experience Template;
- (j) Annex 'H' Letter of Availability and Willingness to perform the Work;
- (k) the Contractor's bid dated _____, as clarified on _____ or as amended on _____ .

12. Government Site Regulations

A9068C (2010-01-11) Government Site Regulations

The Contractor must comply with all regulations, instructions and directives in force on the site where the Work is performed.

13. Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex 'E'. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

14. Shipment of Hazardous Goods

PWGSC SACC Manual clause B1505C (2016-01-28) Shipment of Hazardous Materials

The Contractor must label and ship dangerous goods/hazardous products falling within the [Transportation of Dangerous Goods Act](#), 1992, c.34 and the [Hazardous Products Act](#), R.S.C. 1985, c. H-3 and their regulation(s) in accordance with the said Acts and regulation(s) accompanied by the required safety data sheet(s) completed in both English and French.

ANNEX A STATEMENT OF WORK

1. **TITLE:** Weather Observation Services at Fort Nelson, BC

2. **SUMMARY:**

Environment and Climate Change Canada (ECCC) operates thirty-one (31) aerological observing stations throughout Canada. These stations complete soundings of the upper atmosphere twice daily for each day of the year. The observations are taken by releasing a gas-filled balloon with an attached instrument which is tracked via one of a variety of electronic navigational methods. This attached instrument transmits meteorological data relating to temperature, humidity, and the height of standard atmospheric pressure levels. In addition, tracking of the balloon allows for computation of winds and wind shear at upper levels of the atmosphere.

Data is collected and processed automatically by sounding equipment and transmitted to the Canadian Meteorological Centre for inclusion in atmospheric models which are used to produce a number of weather forecasts. In addition, the data is shared internationally for use in many global weather monitoring and forecasting programs.

3. **APPLICABLE DOCUMENTS:**

Manual of Surface Weather Observations (MANOBS): <http://www.ec.gc.ca/manobs/>

Manual of Upper Air Observations (MANUPP):
http://web.unbc.ca/~murphyb/zxs/doc/manuals/MANUPP_3rd_edition_e.pdf

For a more detailed listing of applicable documents, refer to Appendix 4 to Annex A of the Statement of Work.

4. **SCOPE**

ECCC requires the services of a Contractor to prepare the instruments and release the balloons twice each day, three hundred and sixty-five (365) days per year, to monitor the data and messages produced, and to ensure the prompt transmittal of the data.

The Contractor will conduct the management and operations of the observing program, and the scheduling of personnel for observing, recording, encoding and transmitting Aerological and Supplementary programs at the times specified below as required to comply with the instructions contained in the "MANUAL OF UPPER AIR OBSERVATIONS" (MANUPP) and various other manual required for Supplementary Programs and the Safety and Health for Meteorological Services of Canada Operations.

Administrative responsibilities include maintaining an inventory of consumable supplies, the preparation of monthly reports detailing the performance of the observing program, shipping and receiving of program related items, and the provision of some technical support in the maintenance of the associated equipment.

The Contractor is to perform Aerological observations at Fort Nelson Upper Air Station, as described in Section 4, Annex A, and Appendices 1 through 4.

4.1 **AEROLOGICAL OBSERVATIONS:** The Contractor must observe, record, encode and transmit aerological observations, at the times specified below, as required to comply with the instructions contained in the "MANUAL OF UPPER AIR OBSERVATIONS" (MANUPP), and the Atmospheric

Environment Service (AES) Electrolyser Manual, as well as other manuals required for the completion of the supplementary program, including regulations relating to Occupational Health and Safety of the Meteorological Service of Canada.

- i) The Contractor must conduct the Aerological observing program by performing two (2) aerological observations per day, one in the morning and one in the evening, every day of the year, including holidays. The work entails testing and preparation of monitoring equipment and instruments, filling balloons with hydrogen lifting gas and releasing of instrument equipped balloons at the specified times below.
- ii) The morning period is 03:30 - 06:30 Mountain Standard Time (MST) (10:30 - 13:30 UTC) and the evening period is 15:30 - 18:30 Mountain Standard Time (MST) (22:30 - 01:30 UTC), for every day of the contract. An aerological observation can be completed as detailed below in three (3) hours.
- iii) Approximate schedule for aerological observation:

MORNING	
DESCRIPTION	UNIVERSAL COORDINATED TIME (UTC)
Prepare balloon, probe and computer, MW31	10:30
Balloon release and start the survey	11:15
Completion of survey	13:15
Survey ends automatically	13:30
EVENING	
Prepare balloon, probe and computer, MW31	22:30
Balloon release and start the survey	23:15
Completion of survey	01:15
Survey ends automatically	01:30

- iv) A second release may be required due to equipment malfunction, early balloon burst or should the balloon not reach 400 hPa (approximately 8,000 meters or twenty-five (25) minutes after release) or as prescribed by ECCC. A second release can be made up to and

including 13:45 UTC and 01:45 UTC. There is neither additional time nor additional monies for these subsequent releases. A second release may be expected approximately five (5) percent of the time.

- v) Releases must not be attempted in advance of 11:15 UTC for the morning observation period or in advance of 23:15 UTC for the evening observation period. If a release is made prior to these specified times penalties for non-performance may apply. See Appendix 2 to Annex A.
- vi) A delayed release due to radiosonde or balloon rejection during preparation is not acceptable. Radiosonde and balloon equipment preparation time must begin a minimum of forty (45) minutes prior to the scheduled aerological release allowing sufficient time for the occurrence of rejected equipment. Should a delayed release be identified for the above noted reason, penalties for non-performance may apply. **See Appendix 2 to Annex A.**

4.1.1 Details of Data Collection

- a) **Ballon Filling:** Balloon filling requires the careful laying out of the aerological balloon on an inflation table and inspecting it for visible signs of damage such as holes or flaws. If the balloon passes preliminary inspection, it is attached to the helium inflation equipment and slowly and carefully filled. The balloon must also be inspected for leaks or flaws during and after inflation. When the balloon is filled with sufficient gas to lift an attached weight, the neck is securely tied so as to ensure no gas leakage. Immediately prior to release the balloon is again checked for leaks and tested to ensure that it has maintained the required amount of lift.
- b) **Ground Equipment:** Ground monitoring, receiving, and processing equipment must be operated in accordance with the user manuals or written instructions provided by the ECCC Project Authority. These instructions are subject to change at the discretion of ECCC. The equipment is automated to the extent that only minimal user interaction is necessary.
- c) **Instrument Preparation:** The radiosonde instrument must be unpacked and inspected for damage or other deficiencies or problems. The individual sensors must be positioned and hooked up to the ground check station. The pressure calibration tape is matched to the instrument to be released and will be passed through the ground equipment paper tape reader or manually entered by the contract resource. Once activated, the radiosonde instrument is placed outdoors in order to acclimatize to current weather conditions.
- d) **Release:** Prior to the scheduled time of release, the instrument must be attached to the balloon and the balloon and instrument released. Every effort MUST be made to release the instrument package at the standard hour of observation minus forty-five (45) minutes. For morning flights this must be at 11:15 UTC; and for afternoon flights, release must be at 23:15 UTC. Once released, the observer must return indoors and monitor the ascent data. The surface pressure, temperature, humidity and release times are confirmed, and any necessary adjustments are made via the monitoring equipment and computer.
- e) **Delayed release:** A delayed release due to radiosonde or balloon malfunction during preparation is not acceptable. Radiosonde and balloon equipment preparation time must begin a minimum of forty-five (45) minutes prior to the scheduled aerological release. This will allow sufficient time for the occurrence of rejected equipment. Should a delayed release be identified for the above noted reason, penalties for non-performance may apply. See Appendix 2 to Annex A.
- f) **During the Ascent:** During the ascent, the Contractor must monitor the system for instrument malfunctions or for an early balloon burst. This requires periodic monitoring

of the various outputs from the ground equipment including the incoming data. The ground equipment prepares and transmits messages containing data from the balloon ascent. The observer must ensure that successful transmission of these messages occurs at the appropriate times.

- g) **Post- Flight:** Following the termination of the ascent, the observer must ensure that all data is processed and that the transmission of all data is complete. Archive data must be forwarded to Headquarters as instructed by the designated Project Authority. The data must also be backed up on the station. Information such as radiosonde serial number, height achieved, temperature and wind speed must be entered on a spreadsheet to aid in the preparation of month end summaries and reports. Upon completion of these tasks, all ground equipment must be shut down.
- h) **Second or Additional Releases:** A second release may be required due to equipment malfunction or early balloon burst should the balloon not reach an acceptable height is of 8,000 meters (400hPa or 25minutes after release) or as prescribed by ECCC. A second release can be made up to and including 13:45 UTC and/or 1:45 UTC. There is neither additional time nor additional monies paid by ECCC for these subsequent releases. All expendable components (radiosondes, balloons, and gas) are the responsibility of ECCC. A second release is normally required only 1 or 2 times per month.
- i) **Aerological Message Transmission:** If the aerological messages are transmitted late, the aerological sounding will be considered "DELAYED". If the messages are not transmitted within one (1) hour of the required transmission times, the sounding will be considered "MISSING". Factors contributing to DELAYED or MISSING observations must be clearly detailed and submitted to the Project Authority by email within thirty (30) minutes of the occurrence.
- j) Penalties for non-performance apply for delayed or missing observations resulting from the contract resources failing to attend the work site for any reason other than the occurrence of specific conditions. Please refer to Appendix 2 to Annex A for the list of conditions.
- k) The administration required to operate the program are estimated to be a maximum of (2) two hours per week. For billing purposes these are to be included in the all-inclusive rate of the Contractor.

4.2 OTHER RELATED TASKS:

- A. **Snow removal on Instruments:** Contractor must ensure instruments are kept free of snow. Removing snow from the equipment from the instrument is the contractor's responsibility. The contractor must immediately advise the MSC National Quality Assurance Desk (QAD) or a MSC inspector of any anomaly at the weather site or any defect or breakdown affecting the site or the instruments.
- B. **Snow removal:** Contractor is responsible for moving snow away from the building exit doors. Contractor to contact the snow removal contractor when snow removal is required at the station, this includes removing the snow, spreading sand over the station access path and over the launch area whenever required.
- C. **Supplies:** The Contractor must accept and properly store the instruments and supplies (including picking up the mail and forwarding as required). The Contractor must pack and offer for shipment items such as helium packs, meteorological records and computer components. ECCC will be responsible for shipping costs.
- D. **Routine Equipment Maintenance:** At the request of an MSC Inspector, the Contractor must perform routine quarterly gas calibrations up to four times per year. Training for this function

will be provided by qualified MSC staff. There will be a requirement to perform maintenance of meteorological equipment supplied to the station. This will include, but is not limited to, verifying the accurate operation of the equipment and notifying the appropriate technical authority or agent if repair or replacement of the equipment is required, changing and notation of charts where required, inking or replacement of recorder pens, winding and setting of clocks, removal of snow from instruments in the meteorological compound and other routine maintenance

- E. **Additional On-request Work Requirements:** The Contractor may be required to perform other duties. These duties may or may not be meteorologically related. The Contractor will only complete these duties on the instruction of the MSC-BC Inspector. The Contractor must complete these duties in a timely fashion. These duties will include such things as minor facility maintenance or equipment repair not identified elsewhere in the contract. If such work is required and can be completed during the regular aerological observation, additional compensation will not be paid. If the work cannot be accomplished during the regular aerological observation and requires that the Contractor returns to the site, additional compensation will be paid.
- F. **Additional aerological observations:** The Contractor may be required to perform additional aerological observations to support research activities. If required, these observations will be paid for at the rate for aerological observations submitted in the Basis of Payment. (There is no guarantee these observations will be required)

5. LOCATION OF THE WORK

The work must be performed at the ECCC Fort Nelson, BC Weather Station and cannot be performed remotely.

Fort Nelson Weather Station Facilities:



Fort Nelson Aerial Map: 58°50'28.7"N 122°34'24.2"W



6. LANGUAGE OF THE WORK

The work and all deliverables required of the work must be presented in English or French.

**Appendix 1 to Annex A
Additional Requirements of the Work
under the Resulting Contract**

1. OPERATIONS

1.1 Contractor Responsibilities

- 1.1.1. The Contractor must provide a land line telephone number with voice mail, fax number and an e-mail address. The phone, fax and email must be operational for the duration of the contract and monitored during the times when the station is not attended. This should be included in the bid submission but may be provided prior to contract award.
- 1.1.2. The Contractor must prepare a radiosonde instrument package and inflate a large latex balloon with Hydrogen gas according to the established safe work practices and procedures.
- 1.1.3. The Contractor must release the radiosonde and balloon assembly and monitor the sounding equipment to ensure the successful transfer of data from the radiosonde to the computer equipment.
- 1.1.4. The Contractor must monitor the computer equipment software to ensure the data bulletins are successfully transmitted and successfully received by the Meteorological Service of Canada's telecommunications network.
- 1.1.5. The Contractor must ensure all equipment is kept clean and operational and not subject to neglect or abuse as well as maintaining the equipment according to the applicable instrument manual and/or instructions received from the Project Authority.
- 1.1.6. The Contractor must follow the proper communications protocol as provided by ECCC. The communications equipment will be used for authorized ECCC purposes only. In the event of communications equipment failure, the Contractor must use an approved alternate method of data transmittal. The Contractor must report any malfunction of the communications equipment immediately to the Project Authority or designated representative.
- 1.1.7. The Contractor must accept and properly store instruments and supplies. The Contractor must pack for shipment items such as helium cylinders and computer components, as and when required. Storage space will be provided by ECCC.
- 1.1.8. The Contractor must perform an actual physical count of upper air expendable stock on site on the last day of each month and must ensure an adequate quantity of meteorological supplies are available at the station.
- 1.1.9. The Contractor must requisition, annually, all meteorological supplies, forms, charts and other items from the MS BC Inspector. ECCC is responsible for the cost of the meteorological supplies including shipping costs.
- 1.1.10. The Contractor is responsible for any mailing costs of charts or forms. Postage of non-meteorological supplies are the responsibility of the contractor.
- 1.1.11. The Contractor must report to the Project Authority via telephone or email whenever a shipment of supplies has been received on site or when a shortage of supplies is foreseen.
- 1.1.12. The Contractor must report any issues with the operation of the equipment or facilities to the Project Authority or designate identified by ECCC as soon as they are noted.
- 1.1.13. The Contractor must consult with the MSC BC Inspector prior to attempting unscheduled maintenance or repairs on meteorological sensors or other station equipment.

- 1.1.14 The Contractor must return to ECCC, upon closure of the contract, all equipment and unused meteorological equipment and supplies made available to the Contractor for the performance of the contracted services. The Contractor must return all equipment and supplies in good condition except for ordinary deterioration due to use and time.
- 1.1.15 The Contractor will not be responsible for the loss of or damage to the equipment supplied by ECCC unless such damage of loss results from the negligence or abuse of the equipment by the Contractor or contract resources. The Contractor or contract resources will immediately report, to the Project Authority, any defects or damage to the supplied equipment.
- 1.1.16 The Contractor (assisted by an ECCC representative) must complete an inventory of all equipment, instruments and supplies with a representative of ECCC at the commencement and closure of the contract.
- 1.1.17 The Contractor must forward original meteorological records and/or electronic files within the timelines specified by the Project Authority. Approved electronic forms may be used in place of paper forms. Legible copies of all meteorological records and electronic files must be retained on station for a period designated by the Project Authority. All postage will be paid by ECCC.
- 1.1.18 The Contractor must, no later than five (5) days of the end of the month, submit a monthly Aerological Station Record that includes the following information:
- **Monthly Station Record** – to include observer performance summary, radiosonde rejection information, ground equipment summary, and a narrative describing the overall functioning of the station for the past month
 - **Station Equipment Checklist** – to include fire extinguisher checks, emergency light checks, eye wash station checks, etc.
 - **Occupational Health and Safety Report** – ensure the Health and Safety checklist is completed and current
 - **Stock Report** – report accurate inventory of meteorological supplies on hand (radiosondes, balloons, helium supply and other miscellaneous items)
 - **Daily Log files** of all Hogen related equipment
 - **The Monthly Aerological Station Record** is a condition precedent to the right of the Contractor to receive payment. An approved electronic form must be utilized and emailed to a designated email address.
- 1.1.19 It's the Contractors' responsibility to keep a supply of forms, office supplies, and meteorological supplies including radiosondes, balloons, rope, and helium. When necessary the Contractor will make a list of any missing items and email the MSC BC Inspector.
- 1.1.20 The weather station facilities must not be used for living or sleeping quarters nor temporary or permanent storage of personal property. The facilities must solely be used for the duties required by the Contract. Other activities will not be tolerated and could result in the contract being cancelled without further consideration.
- 1.1.21 The Contractor is responsible for the logistics of getting contract resources to and from the weather observing station and the associated costs are the sole responsibility of the Contractor and/or contract resources.
- 1.1.22 The Contractor must ensure all privately owned motor vehicles, ATV's and snow machines operated in the vicinity of the weather station fully comply with Provincial, Territorial, Regional and Hamlet/Town regulations and must be properly licensed and insured with coverage as identified in Resulting Contract Annex E, Insurance Requirements.
- 1.1.23 The Contractor must ensure the weather observing station and associated facilities are operated and maintained in an environmentally responsible manner.

- 1.1.24 The Contractor must maintain the records associated with each sounding and the supplementary programs. This includes but is not limited to completing checks and maintenance logs, recording serial numbers, balloon release times, instrument readings and archiving data. Legible copies of all designated records and/or abstracts must be retained on station for a period designated by the Project Authority. The administration and documentation associated with the aerological observation program and the supplementary scientific programs can be completed during the aerological balloon observation time and will not cause the Contractor to invoice for additional work.
- 1.1.25 When requested, the Contractor or his designated Station Manager must meet with an ECCC representative on-site.
- 1.1.26 The Contractor's must purchase and provide materials required to perform routine housekeeping duties on site. These supplies include but are not limited to: garbage bags, toilet tissue, Kleenex, paper towels, cleaning supplies, etc
- 1.1.27 The Contractor must purchase and provide all routine stationery and other office supplies such as, but not limited to, paper, pens, pencils, tape, paper clips, stapler, etc.
- 1.1.28 The Contractor is responsible for all costs associated with injury or accident arising out of the Contractor's negligence (e.g. appropriate warning signs were not correctly posted or improperly using equipment and safety gear when maintaining, repairing or cleaning facilities).
- 1.1.29 The Contractor will not be responsible for the loss of or damage to the equipment supplied by ECCC unless such damage or loss results from the negligence or abuse of the equipment by the Contractor or contract employees. The Contractor or staff must immediately report any defects or damage to the supplied equipment to the Project Authority. The Contractor must immediately notify the Project Authority if repair or replacement of the equipment is required.
- 1.1.30 The Contractor will immediately report any equipment breakdown or operational problem to the **Stony Plain Service Desk** at the following number: **1-877-292-0939**. The technicians who work there provide help and assistance to station staff in the event of breakdowns and operational problems. The Contractor must not hesitate to contact them in case of doubt. Station staff will then be invited to follow the advice provided by the technician on duty.

1.2 Environment and Climate Change Canada (ECCC) Responsibilities

- 1.2.1 ECCC will make available to the Contractor, without charge, all facilities, meteorological equipment and meteorological supplies (excluding transportation equipment and yard maintenance equipment) required at the station for the completion by the Contractor of the aerological observing duties and supplementary tasks.
- 1.2.2 ECCC is responsible for the provision and payment of a standard telephone service to the weather station. Long distance charges incurred for the transmission of weather information, reporting instrument defects or failures, or for matters relating to the ongoing operations of the weather observing contract will be paid for by ECCC. All unauthorized telephone charges will be at the expense of the contractor.
- 1.2.3 ECCC will supply the necessary Meteorological communication equipment which includes station computers complete with modems and software. Spare equipment will be supplied where required. The Contractor must use this equipment solely for the purpose of collecting, transmitting or archiving information relevant to the meteorological operations of the station, or for transmitting data from other stations as required.
- 1.2.4 ECCC will ensure all necessary equipment and meteorological instruments needed for the operation of the surface observing program is available to the Contractor at no cost. A complete detailed listing of specific station equipment and instruments will be made available

from the Project authority upon commencement of the term of the Contract. Listing of the meteorological equipment specific to the station:

- a) **Digital Electronic Barometer** - A digital station barometer for use in determining atmospheric pressure. ECCC will install equipment inside the office facility.
- b) **Stevenson Screen** – housing temperature and temperature extreme measuring equipment (mercury and alcohol filled thermometers). Stand is mounted outdoors in meteorological instrument area.
- c) **Wind Speed Direction & Detection** – Detecting instruments are mast-mounted outdoors and information gathered by these is transmitted via cable to indoor mounted indicating instruments.
- d) **Instrument Cabinets** – used to house indicating and recording equipment. The cabinet is located indoors.
- e) **Communication Equipment** – PC driven WinIDE system and backup.
- f) **NAVAID aerological Observing System** – used for the acquiring and processing of upper air data using a GPS satellite positioning system and balloon-carried radiosonde instrument.
- g) **Aerological Balloon Inflation Facilities** – used to inflate balloons with hydrogen for upper air soundings. The actual helium storage equipment makes up part of this and is in the form of individual gas cylinders stored within the inflation room.
- h) **Helium** – provided in the form of cylinders as a back up lifting gas to hydrogen. Cylinders are shipped at no cost to the Contractor. Storage of the helium must be in the inflation building.
- i) **HOGEN** – used to produce hydrogen which is the lifting gas used to fill the balloons.

1.2.5 ECCC is responsible for the inspection and acceptance of all aspects of the weather observing program and operations. ECCC is also responsible for ensuring the timeliness of reporting, accuracy of data and adherence to procedures and standards are being met.

1.2.6 ECCC has the authority to recommend and implement changes to the upper air program and to order the de-certification of any employee found to be lacking in the ability, or demonstrating negligence or unreliability, in completing the duties of a contract weather observer.

2. CONTRACTOR RULES OF CONDUCT AT THE WEATHER STATION

- 2.1 The Contractor must ensure, while on duty, the performance of observational duties and supplementary tasks is the first priority of all the contract resources.
- 2.2 The Contractor must ensure that no other commercial business is performed by contract resources at any time while on the provided premises, or when utilizing ECCC products available over the supplied communications system or using data collected as part of the weather observing contract.
- 2.3 The Contractor must ensure that no alcoholic beverages or illegal drugs are brought onto the station property.

- 2.4 The Contractor must ensure that no resources under the influence of alcohol or illegal drugs perform the duties of an observer. Staff impaired or impeded by prescription drugs must not take weather observations.
- 2.5 The Contractor and contract resources must follow the proper communications protocol as defined by ECCC's Policy on the Use of Electronic Networks. The weather station communications services must only be used for the transmission of weather information, reporting of instruments defects or failures, or matters relating to the ongoing operations of the weather station. To fulfil international commitments and comply with the directives of the World Meteorological Organization, all contract resources will be provided with a Government of Canada network email account used to transmit the Upper Air data. All contract resources must be provided with the ECCC's Policy on the Use of Electronic Networks. Contract resources must abide by this Network Policy.
- 2.6 Misuse of ECCC computing and communications equipment, including downloading of files from media such as the Internet (unless specifically related to the observing program), installing additional software (games, videos, etc.) is strictly prohibited. ECCC Corporate Services Branch will determine the consequence of failure to comply with this policy and may constitute grounds for immediate de-qualification of the contract resource involved and possible termination of the Contract for Cause. All costs associated to any misuse will be the Contractor's responsibility.
- 2.7 The Contractor or contract resources must not involve the weather station in any local issues or other forms of current events. Requests for comment from the media or other representatives of public or private groups must be directed to the Project Authority. The Contractor or contract resources must not provide comment or opinion on any issue on behalf of ECCC.
- 2.8 The Contractor, or contract resources, must not alter or amend an aerological observation nor provide interpretations of aerological/weather forecast products. Aerological observations may be altered or changed only on the direction of an identified representative of ECCC as specified in the Manual of Surface Weather Observations.
- 2.9 The Contractor and contract resources must co-operate in a professional, courteous and civil manner with the Project Authority, with Government of Canada employees, and with members of the general public, in order to ensure the health and safety of personnel accessing the station, the safety of the equipment and buildings and integrity of the data collection program.
- 2.10 While performing any work under the Contract, the Contractor and contract resources must communicate and conduct themselves in a manner which promotes a respectful workplace. Treating all people with respect, dignity and fairness is required at all times to create and maintain a safe and healthy workplace that is free from harassment and discrimination.

3. CONTRACT PERSONNEL REQUIREMENTS

3.1 REQUIREMENTS

- 3.1.1 The Contractor must provide and supervision of a **minimum of three (3)** persons (including one station manager) capable of being trained and site authorized as Upper Air Observers for the duration of the contract. This will allow for operations to continue 365 days a year. This is a **mandatory** requirement.
- 3.1.2 The required level of education for staff is a high school diploma or equivalent; a working knowledge of personal computers and the Windows operating system is also mandatory. This must be mention in the CV of each proposed employee and included in the bidder's bid.
- 3.1.3 The Contractor must ensure all aerological observations are recorded, coded and transmitted by contract resources trained and/or certified by ECCC.

- 3.1.4 The Contractor must ensure all work (aerological and supplementary) is performed by qualified contract resources and qualified by ECCC
- 3.1.5 The Contractor must designate one of the three contract resources listed above as the Station Manager.
- 3.1.6 The Contractor must notify the Project Authority of any proposed contract resource changes a minimum **60 days** in advance of the proposed personnel change. The proposed change is subject to approval by the Project Authority.
- 3.1.7 The Contractor must provide a letter signed by the candidate(s) indicating his or her willingness to work for the Contractor and undergo the necessary training and security clearance. Found in Annex H.
- 3.1.8 ECCC may refuse any proposed contract resources that the Project Authority deems not to have acceptable qualifications to perform the work required. This will include any individual deemed unreliable or negligent in the duties and responsibilities of the contract resource.
- 3.1.9 The Contractor must take all necessary action to ensure that the principles outlined in Provincial, Territorial, and Federal Labour Codes are followed. The Contractor must ensure that Codes are met and that all persons on the weather station premises are provided a safe, healthy, and harassment-free working environment. Failure to comply with Labour Codes may result in the termination of the Contract.
- 3.1.10 The Contractor must ensure that all contract resources and designated station manager perform a minimum of one (1) complete aerological observation a minimum of once every 60 calendar days.
- 3.1.11 At the discretion of the ECCC Project Authority and Technical Authority, the site authorization of an contract resource may be revoked if the resource does not perform one complete aerological observation a minimum of once every 60 consecutive calendar days.
- 3.1.12 The Contractor and contract resources must all hold a valid driver's license. Copies of the valid driver's licence must be provided.

3.2. Observer Training

- 3.2.1 The Contractor is responsible for hiring and paying the staff required to fulfill the services identified under this contract.
- 3.2.2 The Contractor is responsible for all expenses related to recruitment and initial, annual and additional training for himself and his staff.
- 3.2.3 Upon award of the contract, MSC will provide the contractor and contract resources with three days of initial training on site.
- 3.2.4 Training will include the aerological observation duties as well as the basic training on the maintenance and repair of certain meteorological instruments, sensors and pieces of equipment to effectively operate the weather station.
- 3.2.5 All observers must complete the Workplace Hazardous Materials Information System Regulation (WHMIS) and Transportation of Dangerous Goods (TDG) certification training. All costs arising from this removal, including replacement of the unsuccessful trainee by another trainee, will be the sole responsibility of the Contractor. The contractor must provide training, at his cost, for all employees within 30 days of their employment.
- 3.2.6 While on course, all trainees must behave in a professional manner. Tardiness or disruptive behavior will not be tolerated. Arriving in an intoxicated or impaired condition will result in

- immediate removal from the course. All costs arising from this removal, including replacement of the unsuccessful trainee is the sole responsibility of the Contractor.
- 3.2.7 Annual training requests outside the initial training will be provided once per year for each year of the contract if needed. The Contractor must request this training from the Project Authority at least six (6) weeks or thirty (30) working days prior to the commencement of training. Exceptional cases may be addressed through consultation and negotiation with the Project Authority.
- 3.2.8 Annual training of weather observers (outside the initial training) shall be conducted at a mutually agreeable time. All observers involved in the contract observation program shall be certified at the specific site at which the aerological observations are taken. Certification is not transferable between stations. ECCC will conduct annual site certification for all contract resources.
- 3.2.9 The annual training will be provided by MSC, any MSC trainer costs involved with the training will be at the cost to ECCC.
- 3.2.10 In the event that additional training is required outside of the initial site and annual site training the contractor will be responsible for all incurred costs of the trainer, these costs include, travel, accommodations, meals, incidentals
- 3.2.11 ECCC is committed to increased employment opportunities for Indigenous Canadians (Status and non-Status Indians, Métis and Inuit). Contractors are encouraged to employ Indigenous Canadians in their programs. To assist Contractors in this regard, the cost of tuition per year for one (1) Indigenous person, during the life of this Contract, will be waived. The Contractor will still be responsible for all other costs including, but not limited to, transportation, accommodation, living allowance and wages for the resource(s) of the Contractor

3.3 Certification of Observers

- 3.3.1 If the resource does not complete one aerological observation in a sixty (60) consecutive day period; or does not, in any other way, conform to the aerological Observer Qualification Policy, the observer's site authorization/certification will "lapse" and be subsequently revoked.
- 3.3.2 The observer's site authorization/qualification will be immediately suspended if the resource resigns or is otherwise released from the employ of the Contractor.
- 3.3.3 ECCC may revoke any observer's qualification whenever there is cause to believe the observer's performance fails to meet observing standards as prescribed in MANUPP with respect to accuracy and timeliness.
- 3.3.4 Negligence of duties or the wilful dissemination of false or erroneous weather information will result in de-qualification of the observer.
- 3.3.5 Failure to abide by the stated rules of conduct may result in the revoking of an observer's qualification.
- 3.3.6 An on-site evaluation of the observer's work by a representative of ECCC will be conducted prior to the revoking of an observer's qualification.
- 3.3.7 While an observer's qualification is suspended or revoked, that observer is not permitted to perform aerological observations or conduct supplementary duties.

- 3.3.8 Recertification of an observer whose certification has been revoked will require an audit of performance to ensure competency in completing meteorological duties. This audit will be administered by MSC BC Inspector.
- 3.3.9 ECCC has the authority to recommend and implement changes to the observing program, and to order the de-qualification of any observer found to be lacking in ability, demonstrating negligence or unreliability, in completing the duties of a contract weather observer.

4. FACILITIES

- 4.1 ECCC will provide necessary facilities and compound for the operation of the aerological observation program. The indoor facilities will include necessary washroom facilities. All utilities necessary to operate the station, including heat, running water, lighting and power are the responsibility of ECCC and provided at no charge to the Contractor. The Contractor will follow energy efficient practices when using the provided facilities.
- 4.2 The Contractor must ensure the facilities provided are used for the sole purpose of the aerological operational program only and no additional commercial or personal business dealing shall be conducted from the premises. Other activities will not be tolerated and could result in the contract being cancelled without further consideration.
- 4.3 The Contractor must ensure only individuals involved in taking observations as part of the contract, or otherwise involved in the cleaning and/or maintenance of the facilities, use the supplied facilities.
- 4.4 The Contractor must place garbage in garbage bins provided. Garbage collection that is performed by the Town will be at no cost to the Contractor.
- 4.5 The Contractor must provide general housekeeping services. This must include, but not be limited to: keeping the floors clean, swept or vacuumed, the interior walls and windows cleaned and the daily removal of litter and waste. All cleaning or janitorial supplies and equipment, or services required to maintain the cleanliness of the weather observing facilities, are the sole responsibility of the Contractor.
- 4.6 The Upper Air station is a Federal Workplace, therefore, the Contractor and all contract resources must ensure that the Federal Government "No Smoking" policy is observed while using the supplied facilities.
- 4.7 The Contractor will not remove, modify, or otherwise change any aspect of the provided facilities, property, or equipment without prior written approval and guidance from the Project Authority. The Contractor must report immediately any defect in the facilities, property or equipment to the Project Authority.
- 4.8 The Contractor must ensure the provided facilities are secured and locked and windows closed when not in use.
- 4.9 The contractor must ensure that the facilities are used and maintained in a manner that respects the environment

5. HEALTH AND SAFETY

5.1 Contractor Responsibilities

- 5.1.1 The Contractor must adhere to all applicable regulations provided in Federal, Provincial Codes

- 5.1.2 The Contractor must comply with all regulations in Part II of the Canada Labour Code (<http://laws-lois.justice.gc.ca/eng/acts/L-2/page-2.html>) with respect to Occupational Safety and Health and Part III of the Canada Labour Code (<http://laws-lois.justice.gc.ca/eng/acts/L-2/page-3.html>) regarding hours of work and other Labour Relations Articles.
- 5.1.3 The Contractor must post in the workplace in a location accessible to all resources, Part II of the Canada Labour Code and the name and telephone number of the designated safety representative, (if required). All other printed or safety material or shall be similarly posted.
- 5.1.4 The Contractor must ensure that all contract resources are aware of known and foreseeable safety or health hazard in the workplace. These must include, but not limited to, hazards associated with balloon filling, the use of compressed gas and health and safety hazards associated with mercury and operating the tilt-up tower for the wind gauge.
- 5.1.5 The Contractor must ensure that all hazardous material and substances are identified, labelled correctly and stored and handled safely.
- 5.1.6 The Contractor must ensure that all protective equipment / and personal protective clothing required for the work and the safety of employees is available and in good condition and all employees are aware of the correct use of the protective equipment.
- 5.1.7 The Contractor must investigate and record all known accidents or other hazardous occurrences in the workplace. If necessary, the Contractor must prepare a complete Hazardous Occurrence Investigation Report, (Labour Canada form 369) and forward copies to the Project Authority and the ECCC Human Resources Office in the respective Region.
- 5.1.8 The Contractor must comply with all oral or written directions provided by ECCC project authority.
- 5.1.9 Where the work is performed, the Contractor must comply with all Standing Orders and all other Regulations in force relating to the safety of persons on the station and the protection of property against loss or damage from any and all causes.
- 5.1.10 The Contractor must adhere to all fire regulations as specified by the Project Authority.
- 5.1.11 All matters affecting the health and safety of weather observing resources or other individuals working in or around the weather observing station, must be brought to the immediate attention of the Project Authority.
- 5.1.12 The contractor is required to complete the monthly work site inspection report (see Appendix A3 – Site Inspection Report) and email or fax it to the MSC project officer at the beginning of every month.
- 5.1.13 A mercury spill clean-up kit will be provided by ECCC (if required). The Contractor must report a spill and attempt a cleanup of any mercury spills immediately. A mercury spill will be considered a hazardous occurrence.
- 5.1.14 The Contractor must comply with WHMIS (Workplace Hazardous Material Information System) legislation. This must include but not be limited to: ensuring all controlled products as defined under WHMIS are identified with the correct labels; ensuring valid Material Safety Data Sheet (MSDS) is available for each identified controlled product; training of all staff in the safe and correct handling, storage, and use of each controlled product.
- 5.1.15 The Contractor must ensure that all staff who ship and/or receive dangerous goods (such as compressed gas cylinders, batteries), have and maintain Transportation of Dangerous Goods (TDG) training and certification necessary to comply with the legislation.
- 5.1.16 The Contractor must ensure that all compressed gas cylinders are handled safely, properly stored, prepared, labelled, and have the required documentation prior to shipping.

- 5.1.17 **The Contractor must supply to ECCC, within thirty (30) days of the commencement of the contract, proof of certification of all employees in Workplace Hazardous Material Information System training.** If necessary, the contractor must provide training to all new staff within 30 days of their employment start date.
- 5.1.18 The Contractor must supply proof of certification within thirty (30) days of commencement of the contract that at least one member on the staff have completed training in the Transportation of Dangerous Goods Act. New proof must be sent in the event of any staff changes. The contractor may have to provide to ECCC a copy of the valid certification of each of his employees, throughout the contract term.
- 5.1.19 The Contractor and all contract resources must strictly adhere to all fire and general safety regulations applicable at their station. All matters affecting the health and safety of weather observing staff or other individuals working in or around the weather observing station must be brought immediately to the attention of the Project Authority.
- 5.1.20 The Contractor must supply proof of Workers' Compensation coverage for all employees in the Province in which the work is to be performed.
- 5.1.21 The contractor shall be responsible for the safety of his employees. The contractor shall relieve ECCC of all liability as regards claims, requests, actions, demands, lawsuits, fees, expenses and legal proceedings initiated by anyone whomsoever in any way whatsoever following the death of an employee, an injury to an employee, the loss of property or material damages suffered due to activities carried out by the contractor while delivering services under this contract

5.2 Environment and Climate Change Canada (ECCC) Responsibilities

- 5.2.1 Under the Provisions of Part II of the Canada Labour Code (CLC), ECCC will ensure that all facilities, machinery, instruments and protective devices, meet the standards set out in the Canada Labour Code Regulations. These include buildings, steps and walkways, guard rails and entries to and exits from the workplace. ECCC will also ensure that ventilation, lighting, and noise levels comply with CLC regulations.
- 5.2.2 ECCC will ensure that electrical distribution systems, generators and instrument installations meet the Canada Labour Code regulations and/or Provincial Electrical Code Standards.
- 5.2.3 ECCC will provide sanitary and personal facilities.
- 5.2.4 ECCC will provide fire extinguishers, first aid kits, and mercury spill clean-up kits.
- 5.2.5 ECCC will provide information on current MSDS (Material Safety Data Sheets) for all known WHMIS controlled products on site prior to the commencement of the contract and upon request for the duration of the contract.
- 5.2.6 ECCC will provide personal protective equipment for hazards associated with balloon filling or mercury spills or contamination. This equipment shall include hearing and eye protection, safety gloves and mercury spill clean-up kits.
- 5.2.7 ECCC will provide information to the Contractor regarding known or foreseeable workplace hazards such as those associated with balloon filling, compressed gases, or mercury.
- 5.2.8 ECCC will monitor the Contractor's compliance with Health and Safety procedures and regulations through annual facilities and observing program inspections or independent audits.

5.3 Emergency Plans

- 5.3.1 The Contractor, in consultation with the Project Authority, must prepare and submit an Emergency Action Plan for approval detailing procedures to be followed by all staff in cases where extraordinary events, such as power failures, severe weather, natural disasters or other events beyond the control of the Contractor or his staff, may interfere with or prevent the weather observation duties.
- 5.3.2 The Emergency Action Plan must address alternate methods of providing aerological observations and an employee call-in procedure to maintain the program. The plan must also include a user notification plan detailing the individuals or agencies to be notified both during any program interruption and following the normal resumption of business.
- 5.3.3 The Contractor must ensure that all contract resources are aware of this plan and the procedures to be followed in such instances.
- 5.3.4 The Contractor must complete the Emergency Action Plan within thirty (30) days of the commencement of the contract. This action plan must be forwarded to the Project Authority within this thirty (30) day time frame.

5.4 WHMIS and Transportation of Dangerous Goods (TDG)

- 5.4.1 The Contractor must comply with the Workplace Hazardous Material Information System (WHMIS), the Transportation of Dangerous Goods Act - Land (TDG) and all applicable Occupation Safety and Health (OSH) regulations.
- 5.4.2 The Contractor must provide, within thirty (30) days of the start of the contract: Site specific Occupational Safety and Health (OSH) Plan including Emergency Action Plan as detailed in the Statement of Work, Annex "A", contained herein.

5.5 Material Safety Data Sheets (MSDS)

- 5.5.1 MSDS sheets for all known ECCC provided hazardous chemicals on-site will be made available to the Contractor prior to contract commencement. The Contractor must ensure the station MSDS sheets are kept current and new MSDS sheets are ordered from the Project Authority as and when required.

If the Contractor brings hazardous chemicals to the station, it will be the Contractor's responsibility to provide up to date MSDS sheets for each hazardous chemical.

6. Other

- 6.1 In order to assist the Contractor in achieving and maintaining acceptable standards of operation to the satisfaction of the Project authority, ECCC will provide the services of a qualified ECCC Officer to inspect the station and records on an annual basis.
- 6.2 Due to issues such as human resources and automation, ECCC retains the right to terminate the contract without penalty upon sixty (60) days written notice; or, in part, (de-scoping) upon sixty (60) days written notice by ECCC. If the requirement is descoped, a new acceptable monthly/daily/hourly rate will be negotiated.

**APPENDIX 2 to ANNEX A
PENALTIES FOR NON PERFORMANCE**

Penalties for non-performance may apply in the event of delayed or missing aerological data, as described below. For aerology work and the purpose of non-performance penalties only, an aerological observation will be considered to be 3 hours in length.

DEFINITION OF SITUATIONS:

<p align="center">NORMAL RELEASE</p>	<p>Every effort must be made to perform the aerological release at precisely 11:15 UTC (morning) and or 23:15 UTC (evening).</p> <p>Due to conditions beyond the control of the Contractor there may be short delays in performing the release and actual release times between 11:15 and 11:29 UTC (morning) and 23:15 and 23:29 UTC (evening) will be considered "normal".</p>
<p align="center">EARLY ASCENTS</p>	<p>If an aerological release is made prior to 11:15 UTC for the morning observation or prior to 23:15 UTC for the evening observation it will be considered "early".</p> <p>A reduction of one-half (0.5) times the aerological Observation rate may apply.</p>
<p align="center">DELAYED ASCENTS</p>	<p>If an aerological release is made after 11:29 UTC but before 11:45 UTC OR after 23:29 UTC but before 23:45 UTC, the release must be logged as "DELAYED" and a message must be sent on the ECCC communications system advising of the delayed ascent.</p> <p>If the delay was caused by equipment malfunction or weather (as determined by the Project Authority) beyond the control of the Contractor, there will be no reduction in the payment to be made to the Contractor.</p> <p>If the delay was caused by other than equipment malfunction or weather (as determined by the Project Authority), there will be a reduction in the payment to the Contractor of one-half (0.5) times the aerological Observation rate.</p>
<p align="center">MISSED ASCENTS</p>	<p>If a morning aerological release is not made before 11:45 UTC, if an evening release is not made before 23:45 UTC, the release must be recorded as "MISSING". A message must be sent on the ECCC communication system advising of the missed ascent.</p> <p align="center">Releases must not be attempted after 13:30 UTC (morning) and 01:30 UTC (evening).</p> <p>If a release was attempted but due to equipment malfunction (as determined by the Project Authority) beyond the control of the Contractor, was not completed, the Contractor will not be subject to penalties for non-performance.</p> <p>If a release was not done for reasons other than equipment malfunction or weather (as determined by the Project Authority), the Contractor will not be paid for the observation plus a reduction of one (1.0) times the aerological Observation rate will be applied.</p>
<p align="center">INCLEMENT WEATHER/ROAD CONDITIONS</p>	<p>The contractor is not required to travel to the aerological station and conduct surveys in the event of the following weather or road conditions:</p> <ol style="list-style-type: none"> 1. prevailing wind speed greater than sixty (70) kilometers/hour; and either: <ol style="list-style-type: none"> a) prevailing visibility less than four hundred (400) meters (1/4 mile); or b) wind chill of more than 2,300 watts/square meter (approximately -50 colder or Roads are closed 2. The Contractor will not be held liable for non-performance penalties resulting from the missed ascent due to inclement weather/road conditions; however, the Project Authority must be notified.

	<p>In order to avoid penalties for non-performance the Stony Plain Service Desk MUST be contacted at 1-877-292-0939. If the call is not made, the survey will be considered to be missed and penalties for non-performance will be applied.</p> <p>If the weather conditions in in the above paragraph do not exist, but in the opinion of the Contractor attempting an observation will cause a significant risk to the observer's health and safety, the Contractor is not obligated to attempt an aerological observation and penalties for non-performance will not apply, however, the Stony Plain Service Desk MUST be contacted at 1-877-292-0939.</p> <p>If the contract resource cannot make it to the Upper Air Station for reasons other than inclement weather, such as building maintenance issues, vehicle issues or for any other reason than the Stony Plain Service Desk MUST contacted at 1-877-292-0939.</p> <p>In the case, it is considered as missed ascent, the Contractor will not be paid for the observation plus a reduction of one (1.0) times the aerological Observation rate will be applied.</p>
<p>OBSERVATION QUALITY</p>	<p>If an error is made in the preflight setup of the aerological instrument which causes the flight data to become invalid (surface temperature, pressure, etc. are incorrect)</p> <p>There will be a reduction in payment to the Contractor of one- half (0.5) times the aerological Observation rate.</p> <ul style="list-style-type: none"> • A sustained number of delayed, missing, or inaccurate ascents can result in termination of the Contract for cause. • A sustained number of delayed, missing, or inaccurate ascents by a contract aerological observer can result in revocation of the observer's authorization to perform aerological Observations. • Penalties for non-performance for quality control are applied to the Contractor's monthly performance and not to any individual observer's performance.
<p>AEROLOGICAL MESSAGE TRANSMISSION</p>	<p>If any messages are transmitted late, the aerological release will be considered 'DELAYED'.</p> <p>If any of the messages are not transmitted within one (1) hour of the required transmission times, the release will be considered "MISSING".</p> <p><u>The observer MUST check to ensure that all messages are transmitted as required.</u></p> <p>Penalties will not apply in the event of DELAYED or MISSING aerological messages caused by equipment malfunction, weather conditions (as outlined in this document), early balloon burst, multiple releases and/or total communication system failure.</p> <p><u>In the case message are considered DELAYED or MISSING; penalties will apply accordingly.</u></p>

APPENDIX 3 TO ANNEX A HAZARDS

At any Weather Station, there are a number of hazards that an observer may face as part of their regular day to day duties. These hazards may be either physical, chemical or both in nature.

1. Physical Hazards

Some of the known physical hazards on station are:

- hydrogen fire and/or explosion
- asphyxiation from hydrogen or helium
- eye/ear injury from ruptured balloons
- exposure to radiation from computer monitors
- frost bite while working on outdoor equipment or completing a snow survey or ice survey
- slip, trip and fall hazards while releasing balloons
- skin burns from acids/caustics
- injury from high pressure helium cylinders (explosion and crushing injuries)
- working alone in a remote location
- opening/closing of the inflation building main overhead door
- climbing tall ladders to change light bulbs and/or calibrating sensors
- fire extinguishers (explosion and asphyxiation)
- electrocution
- encounters with wildlife while working outdoors
- cuts and/or punctures while maintaining equipment

2. Chemical Hazards

Some of the known chemical hazards on station are:

- “Snoop”
- mercury
- Mercon Cleanup kits
- methyl or isopropyl alcohol
- ozone
- lubricating oil
- battery acid
- fire extinguishers

3. A complete listing of all known physical or chemical hazards as well as the recommended practices to minimize their dangers will be made available to the Contractor prior to contract commencement.
4. The Contractor must ensure all contract resources have been made aware of all known physical or chemical hazards and have received training in safe work practices including the use of personal protective equipment to minimize these hazards. Any new or unlisted chemical hazards must be brought to the attention of the Project Authority immediately.
5. The Contractor must ensure contract resources are equipped with, and use, supplier recommended personal protective equipment (PPE) (such as face masks, chemical resistant gloves, safety boots, etc.) in the completion of their duties.
6. Upon commencement of the contract and on the contract anniversary dates thereafter, the Contractor must perform an inventory of all Personal Protective Equipment contract resources are equipped with and forward same to the Project Authority to ensure compliance.

7. The Project Authority must annually review the inventory and the contractor's training plan. The Contractor must remedy any noted deficiencies to the satisfaction of the Project Authority. Failure to do so will be considered Cause For Termination of the Contract.

8. **Material Safety Data Sheets (MSDS)**

MSDS for all known ECCC provided hazardous chemicals on station shall be made available to the Contractor prior to contract commencement. The Contractor must ensure the station MSDS are kept current and new MSDS are ordered from the Project Authority as and when required.

If the Contractor brings hazardous chemicals onto the station, the Contractor's must provide up to date MSDS for each hazardous chemical.

**APPENDIX 4 to ANNEX A
APPLICABLE DOCUMENTS**

Documents Referenced in the Statement of Work:

Manual of Surface Weather Observations (MANOBS): <http://www.ec.gc.ca/manobs/>

Manual of Upper Air Observations (MANUPP):
http://web.unbc.ca/~murphyb/zxs/doc/manuals/MANUPP_3rd_edition_e.pdf

Documents To Be Provided at Contract Award:

[Hogen Operation and Maintenance Manuals](#)

[Aqua Solutions Operation Manual](#)

Safety and Health Manual for Atmospheric Environment Program

Aerological Observer's Course Training Manual Module 2.7

ECCC PNR Observer Qualification Policy

Occupational Health & Safety Report

Quality Control Report, Station Equipment Checklist

Monthly Aerological Record & Monthly Stock Report

APPENDIX A2 AEROLOGICAL SURVEY CERTIFICATION POLICY

1.1 Policy

It is MSC policy that aerological observers hold certification issued by the MSC to conduct aerological surveys.

1.2 Reason for the policy

The reason for this policy is to maintain the integrity of the MSC's weather network data. This is only possible if the competency of the observers is ensured. Aerological observers must thus demonstrate that they have the required knowledge and ability to carry out aerological surveys properly.

1.3 Certification:

To qualify for aerological observation certification, candidates must:

- a) Take the training required to carry out the aerological surveys according to the MSC's standards and procedures;
- b) Be certified by an authorized MSC representative to operate and maintain certain pieces of equipment;
- c) At the end of the initial training, demonstrate the ability to carry out an aerological survey without the help of the MSC's authorized representative.

1.4 Operational Requirements

Employees must be certified as aerological observers in order to carry out aerological surveys in accordance with MSC standards, after undergoing training at their assigned aerological station.

1.5 Conditions for non-certification/revocation

- 1.5.1 The project officer will revoke the certification of an aerological observer if there is reason to believe that the observer's performance is not up to standard. An evaluation of the observer's work will be conducted at the station by an authorized MSC representative before the recommendation to revoke certification is made.
- 1.5.2 Certification will be automatically revoked if an observer does not conduct an average of at least one aerological observation per week for the first 26 weeks of certification, and at least one aerological observation every 60 consecutive days thereafter.
- 1.5.3 An observer's certification will be automatically revoked if the observer leaves his employment.

1.6 Written notice

1.6.1 The project officer or the project officer's authorized representative will give the observer written notice, including the date, site and reason for non-certification/revocation. A copy of this notice will be sent to:

- The contractor
- The contracting authority

1.6.2 If an aerological observation certificate is revoked, the observer may no longer conduct aerological surveys. If the notice is ignored, the contract will be automatically cancelled.

1.7 Re-certification procedures

1.7.1 If the contractor wants an observer to be re-certified, he must submit a request to the project officer, who will begin re-certification procedures at the station. Generally, 30 business days' notice is required. The contractor will be responsible for the re-certification costs.

1.7.2 To be re-certified, an observer is required to demonstrate his competency to carry out aerological observations. A re-certification exam may take place at the station.

1.7.3 At the discretion of the project officer, in some cases, re-certification may require the observer to take another training session.

**ANNEX B
 BASIS OF PAYMENT/FINANCIAL BID EVALUATION SHEET**

The Bidder's prices must be submitted based on the hours of work described below. The price must be stated per year and not include GST/HST. Overhead and profit are to be included in the firm, all-inclusive hourly rates. FOB destination, Canadian customs duties and excise taxes included.

**Table 1.1
 1st Contract Year**

line	description	estimated quantity	unit of issue	firm unit price	total estimated cost
Pricing Schedule 1 - Firm All Inclusive Prices - The Contractor will be paid the following firm all-inclusive rates for work performed in accordance with the Statement of Work at Annex A.					
1.	Morning Upper air sounding	365	ea	\$	\$
2.	Evening Upper air sounding	365	ea	\$	\$
3.	End of month report (1 hour per month)	12	hours	\$	\$
Pricing Schedule 2 - Additional "As and When Requested" work The Contractor will be paid the following firm hourly rates, for work performed pursuant to this Contract, in accordance with the Statement of Work at Annex A.					
1.	hourly labour rate	72	hours	\$	\$
Total Price for Evaluation					\$

Table 1.2
2nd Contract Year

line	description	estimated quantity	unit of Issue	firm unit price	total estimated cost
<p>Pricing Schedule 1 - Firm All Inclusive Prices - The Contractor will be paid the following firm all-inclusive rates for work performed in accordance with the Statement of Work at Annex A.</p>					
1.	Morning Upper air sounding	365	ea	\$	\$
2.	Evening Upper air sounding	365	ea	\$	\$
3.	End of month report (1 hour per month)	12	hours	\$	\$
<p>Pricing Schedule 2 - Additional "As and When Requested" work The Contractor will be paid the following firm hourly rates, for work performed pursuant to this Contract, in accordance with the Statement of Work at Annex A.</p>					
1.	hourly labour rate	72	hours	\$	\$
Total Price for Evaluation					\$

Table 1.3
1st Option Year (3rd Contract Year)

line	description	estimated quantity	unit of Issue	firm unit price	total estimated cost
<p>Pricing Schedule 1 - Firm All Inclusive Prices - The Contractor will be paid the following firm all-inclusive rates for work performed in accordance with the Statement of Work at Annex A.</p>					
1.	Morning Upper air sounding	365	ea	\$	\$
2.	Evening Upper air sounding	365	ea	\$	\$
3.	End of month report (1 hour per month)	12	hours	\$	\$
<p>Pricing Schedule 2 - Additional "As and When Requested" work The Contractor will be paid the following firm hourly rates, for work performed pursuant to this Contract, in accordance with the Statement of Work at Annex A.</p>					
1.	hourly labour rate	72	hours	\$	\$
Total Price for Evaluation					\$

Table 1.4
2nd Option year (4th contract year)

line	description	estimated quantity	unit of Issue	firm unit price	total estimated cost
<p>Pricing Schedule 1 - Firm All Inclusive Prices - The Contractor will be paid the following firm all-inclusive rates for work performed in accordance with the Statement of Work at Annex A.</p>					
1.	Morning Upper air sounding	365	ea	\$	\$
2.	Evening Upper air sounding	365	ea	\$	\$
3.	End of month report (1 hour per month)	12	hours	\$	\$
<p>Pricing Schedule 2 - Additional "As and When Requested" work The Contractor will be paid the following firm hourly rates, for work performed pursuant to this Contract, in accordance with the Statement of Work at Annex A.</p>					
1.	hourly labour rate	72	hours	\$	\$
Total Price for Evaluation					\$

Table 1.5
3rd Option year (5th contract year)

line	description	estimated quantity	unit of issue	firm unit price	total estimated cost
<p>Pricing Schedule 1 - Firm All Inclusive Prices - The Contractor will be paid the following firm all-inclusive rates for work performed in accordance with the Statement of Work at Annex A.</p>					
1.	Morning Upper air sounding	365	ea	\$	\$
2.	Evening Upper air sounding	365	ea	\$	\$
3.	End of month report (1 hour per month)	12	hours	\$	\$
<p>Pricing Schedule 2 - Additional "As and When Requested" work The Contractor will be paid the following firm hourly rates, for work performed pursuant to this Contract, in accordance with the Statement of Work at Annex A.</p>					
1.	hourly labour rate	72	hours	\$	\$
Total Price for Evaluation					\$

Total Estimated Price of the Bid _____ \$

Table 1.1 Total Price (\$XXX) + Table 1.2 Total Price (\$XXX) + Table 1.3 Total Price (\$XXX) + Table 1.4 Total Price (\$XXX) + Table 1.5 Total Price (\$XXX) = Total value of the bid

ANNEX C
SECURITY REQUIREMENTS CHECK LIST

See attached pdf.

**ANNEX D
FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION**

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

For further information on the Federal Contractors Program for Employment Equity visit Employment and Social Development Canada (ESDC)-Labour's website.

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

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act*.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
 - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour. **OR**
 - A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture. **OR**
- B2. The Bidder is a Joint venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

ANNEX E INSURANCE REQUIREMENTS

1. **The Contractor must obtain Commercial General Liability Insurance**, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

The Commercial General Liability policy must include the following:

- a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
- b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- g. Employees and, if applicable, Volunteers must be included as Additional Insured.
- h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
- i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- j. Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
- n. Advertising Injury: While not limited to, the endorsement must include coverage piracy or misappropriation of ideas, or infringement of copyright, trademark, title or slogan.
- o. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
- p. Litigation Rights: Pursuant to subsection 5(d) of the [Department of Justice Act](#), S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

send to:

*Senior General Counsel
Civil Litigation Section
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8*

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

2. **The Contractor must obtain All Risks Property insurance** while the Government Property is under its care, custody or control, and maintain it in force throughout the duration of the Contract, in an amount of not less than \$1,000,000.00. The Government's Property must be insured on a replacement cost (new) basis.
 1. Administration of Claims: The Contractor must notify Canada promptly about any losses or damages to Government Property and monitor, investigate and document losses of or damage to ensure that claims are properly made and paid.
 2. The All Risks Property insurance policy must include the following:
 - a. Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority at least thirty (30) days written notice of policy cancellation.
 - b. Loss Payee: Canada as its interest may appear or as it may direct.
 - c. Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Environment and Climate Change Canada (ECCC) and Public Works and Government Services Canada for any and all loss of or damage to the property however caused.
3. **Automobile Liability Insurance**
 1. The Contractor must obtain Automobile Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence.
 2. The policy must include the following:
 - a) Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
 - b) Accident Benefits - all jurisdictional statutes
 - c) Uninsured Motorist Protection
 - d) Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of cancellation.
 - e) Liability for Physical Damage to Non-owned Automobiles: SEF#27

4. Error and Omissions Liability Insurance

1. The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
2. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
3. The following endorsement must be included:

Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

ANNEX F
Annex F
Integrity Regime

Bidder must complete the attached List of Names for Integrity Verification Form.

Environnement et Changement climatique Canada a adopté le régime d'intégrité développé et mis en place par Services publics et Approvisionnement Canada. Les fournisseurs acceptent, en soumettant une proposition, de se conformer aux dispositions du régime d'intégrité et la [Politique d'inadmissibilité et de suspension](#) ainsi que le [Code de conduite pour l'approvisionnement](#). / Environment and Climate Change Canada has endorsed the Integrity Regime developed and implemented by Public Services and Procurement Canada. By submitting a quote, Contractors agree to comply with the provisions of the Integrity Regime and [Ineligibility and Suspension Policy](#) as well as the [Code of Conduct for Procurement](#).

Selon la [Politique d'inadmissibilité et de suspension](#) de TPSGC (maintenant SPAC), les renseignements suivants doivent être fournis lors d'une soumission ou de la passation d'un marché.¹ / In accordance with the PWGSC (now PSPC) [Ineligibility and Suspension Policy](#), the following information is to be provided when bidding or contracting.¹

* Informations obligatoires / Mandatory Information

*Dénomination complète de l'entreprise / Complete Legal Name of Company		
*Nom commercial / Operating Name		
*Adresse de l'entreprise / Company's address	*Type d'entreprise / Type of Ownership	
	<input type="checkbox"/> Individuel / Individual <input type="checkbox"/> Corporation / Corporation <input type="checkbox"/> Coentreprise / Joint Venture	
*Membres du conseil d'administration² / Board of Directors² (Ou mettre la liste en pièce-jointe / Or provide the list as an attachment)		
Prénom / First name	Nom / Last Name	Position (si applicable) / Position (if applicable)

1 Liste des noms : Tous les fournisseurs, peu importe leur situation au titre de la Politique, doivent présenter les renseignements ci-dessous au moment de prendre part à un processus d'approvisionnement:

- les fournisseurs constitués en personne morale, y compris ceux qui présentent une soumission à titre de coentreprise, doivent fournir la liste complète des noms de tous les administrateurs actuels ou, dans le cas d'une entreprise privée, des propriétaires de la société;
- les fournisseurs soumissionnant à titre d'entreprise à propriétaire unique, y compris ceux soumissionnant en tant que coentreprise, doivent fournir la liste complète des noms de tous les propriétaires;
- les fournisseurs soumissionnant à titre de société en nom collectif n'ont pas à soumettre une liste de noms.

List of names: All suppliers, regardless of their status under the Policy, must submit the following information when participating in a procurement process:

- suppliers that are corporate entities, including those bidding as joint ventures, must provide a complete list of the names of all current directors or, for a privately owned corporation, the names of the owners of the corporation;
- suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, must provide a complete list of the names of all owners; or
- suppliers that are a partnership do not need to provide a list of names.

2 Conseil des gouverneurs / Board of Governors; Conseil de direction / Board of Managers; Conseil de régents / Board of Regents; Conseil de fiducie / Board of Trustees; Comité de réception / Board of Visitors

**ANNEX G
 WORK EXPERIENCE TEMPLATE**

WORK EXPERIENCE TEMPLATE	
Name of the Resource	
Education	
Relevant Certification	
E.G. EXPERIENCE #1 (repeat for each different work experience)	
Name of the organisation the work was performed for;	
Title of the Project/work or contract name;	
Description of the work provided, including role and responsibilities of the proposed resource;	
Start date (specify month and year);	
End date (specify month and year);	
Total number of year; including if the work is still in progress;	
Name and contact information (phone number, e-mail) of an reference who will confirm the information supplied by the Bidder	
EXPERIENCE #2 (repeat for each different work experience)	

Annex H
Letter of Availability and Willingness
to perform Work under the Contract

I ____ **[insert name]**, confirm that I am willing and available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation, and that I am willing to undergo any required training to do the work.

I further confirm that _____ **[insert name of Bidder]** has the authorization to provide my name as a resource in its bid for the Weather Observation Services Contract.

Name and Signature

Date

Annex I Former Public Servant – Competitive Bid Form

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:

- e. an individual;
- f. an individual who has incorporated;
- g. a partnership made of former public servants; or
- h. 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:

- c. name of former public servant;
- d. 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:

- h. name of former public servant;
- i. conditions of the lump sum payment incentive;
- j. date of termination of employment;
- k. amount of lump sum payment;
- l. rate of pay on which lump sum payment is based;
- m. period of lump sum payment including start date, end date and number of weeks;
- n. 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.

Name and Signature

Date