

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage , Phase III
Core 0B2 / Noyau 0B2
Gatineau
Québec
K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

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

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

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

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

Comments - Commentaires

Title - Sujet Polar Over-the-Horizon Radar Phase4 Radar Polaire Transhorizon RPT	
Solicitation No. - N° de l'invitation W7714-228152/B	Date 2024-01-05
Client Reference No. - N° de référence du client W7714-228152	
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-125-29258	
File No. - N° de dossier 125qf.W7714-228152	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2024-03-28 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lacoursiere, Paul	Buyer Id - Id de l'acheteur 125qf
Telephone No. - N° de téléphone (343) 551-1529 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: <div>Specified Herein Précisé dans les présentes</div>	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

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

Issuing Office - Bureau de distribution
Electronics, Simulators and Defence Systems Div. /Division
des systèmes électroniques et des systèmes de simulation et
de défense
11 Laurier St. / 11, rue Laurier
8C2, Place du Portage
Gatineau
Québec
K1A 0S5

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PART 1 - GENERAL INFORMATION

1.1 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 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 and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7 Resulting Contract Clauses: 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 Electronic Payment Instruments, the Federal Contractors Program for Employment Equity - Certification, the Insurance Requirements, DND 626 Task Authorization Form and any other annexes.

1.2 Summary

- 1.2.1** During 2015 to 2020, Defence Research and Development Canada (DRDC) executed the All Domain Situational Awareness (ADSA) Program, which included a study of the feasibility of using sky-wave over-the-horizon radar technology in the polar cap region of the Canadian Arctic for detecting air targets. This study involved the installation of the first Canadian Polar Over-the-Horizon Radar (POTHR) system, at a location in Nunavut. The objective of the POTHR - Second System project is to design, build, install, and operate a second Canadian POTHR system at a location in the Northwest Territories, which will work cooperatively with the previously installed Nunavut POTHR system.

The period of the Core component of the Contract is estimated to be the date of Contract award until twenty-four (24) months after Contract award, once all services and deliverables have been delivered and accepted, all warranties have expired, and no outstanding warranty issues exist.

The requirement also includes a Task Authorization component for work that may be required on an "as and when requested" basis to support system operations, and Technical Investigations and Engineering Services (TIES) to support further deployment of the POTHR capability. The period of the Contract may be extended for the Task Authorization component only by three (3) additional one (1) year periods.

- 1.2.2** There are security requirements associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses and Annex D Annex H. For more information on personnel and organization security screening or security clauses, Bidders should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

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- 1.2.3** This procurement is subject to Comprehensive Land Claims Agreement(s):
The information will be released with Annex D.:
- 1.2.4** This bid solicitation is to establish a contract with task authorizations (TA) for the delivery of the requirement detailed in the bid solicitation, to the Identified Users across Canada, including areas subject to Comprehensive Land Claims Agreements.
- 1.2.5** This procurement is subject to the Controlled Goods Program. The Defence Production Act defines Canadian Controlled Goods as certain goods listed in Canada's Export Control List, a regulation made pursuant to the Export and Import Permits Act (EIPA)."
- 1.2.6** "There is a bidder's conference associated with this requirement where personnel security screening is required prior to gaining access to CLASSIFIED information. Consult Annex H and Part 2 – Bidder Instructions."
- 1.2.7** "The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the Annex I titled Federal Contractors Program for Employment Equity - Certification."
- 1.2.8** "This bid solicitation requires bidders to use the CPC Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information."
- 1.2.9** "This procurement is subject to a preference for Bidders participating in a greenhouse gas (GHG) emissions disclosure, target-setting and reduction initiative such as the Net-Zero Challenge or equivalent. For additional information refer to Part 4 Evaluation Procedures and Basis of Selection and Part 5 Certifications and Additional Information."

1.3 Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The [2003](#) 2023-06-08 Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.1.1 SACC Manual Clauses

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2040 (2022-12-01), General Conditions - Research & Development,
4010 (2022-12-01), Services - Higher Complexity
A7035T (2007-05-25), List of Proposed Subcontractors

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by using Epost Connect. For bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

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

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

2.3 Former Public Servant

Contracts with 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 with FPS, Bidders must provide the information required below.

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, in the context of the fee abatement formula, 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

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Is the Bidder a FPS in receipt of a pension as defined above? **Yes () No ()**

If so, the Bidder must provide the following information:

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

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? **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 reduction 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 the Goods and Services Tax or Harmonized Sales Tax.

Certification

By submitting a Bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.5 Applicable Laws

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

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

2.6 Improvement of Requirement During Solicitation Period

Clause A9076T advises Bidders that they can propose improvement to the technical requirement(s) contained in the bid solicitation

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Should Bidders consider that the specifications or Statement of Work contained in the Bid solicitation could be improved technically or technologically, Bidders are invited to make suggestions, in writing, to the Contracting Authority named in the Bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular Bidder will be given consideration provided they are submitted to the Contracting Authority at least seven (7) days before the Bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.7 Bidders' Conference (One on One meeting)

There is a requirement for a bidders conference to view Annex D, the Location Document. All the information for this requirement is laid out in Annex H (One on One Meetings) Non Disclosure Agreements and Security Clearances need to be completed Prior to these scheduled Meetings.

2.8 Bid Challenge and Recourse Mechanisms

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that the Bidder submits its Bid electronically via epost in accordance with section 08 of the [2003](#) standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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

Section I: Technical Bid
Section II: Financial Bid
Section III: Indigenous Participation Plan
Section IV: Certifications
Section V: Additional Information

Due to the nature of the Bid solicitation, Bids transmitted by facsimile will not be accepted.

Prices must appear in the Financial Bid (Section II) only. No prices must be indicated in any other section of the Bid.

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.

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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.

Section II : Financial Bid

Bidders must submit their financial Bid in accordance with the Financial Bid Presentation detailed in Annex B

3.1.2 Electronic Payment of Invoices – Bid

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

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

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

Section III: Indigenous participation Plan

Bidders must submit their Indigenous Participation Plan as per described in Annex E.

3.1.3 SACC Manual Clauses

Section IV : Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical, financial and indigenous participation evaluation criteria with point rates of (40-40-20)
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) Canada will utilize a Phased Evaluation Process as fully described herein.
- (d) The Bidder must comply with the mandatory Acquisition and Indigenous participation criteria and provide the necessary documentation to support compliance. Each criterion should be addressed separately.

Except where expressly provided otherwise, the experience described in the bid must be the experience of one or more of the following:

1. the Bidder itself (which includes the experience of any companies that formed the Bidder by way of a merger but does not include any experience acquired through a purchase of assets or an assignment of contract); or
2. the Bidder's affiliates (i.e. parent, subsidiary or sister corporations), provided the Bidder identifies and demonstrates the transfer of know-how, the use of toolsets and the use of key personnel from the affiliate for the applicable criterion; or

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3. the Bidder's subcontractors, provided the Bidder includes a copy of the teaming agreements and identifies the roles and responsibilities of all parties under the agreement and how their work will be integrated.

Note: The experience of the Bidder's suppliers will not be considered for all evaluations.

- (c) The evaluation team will determine if there are two (2) or more bids with a valid Canadian content certification with the bids coming from two or more Bidders that are not affiliated within the meaning used in the Competition Act, R.S.C., 1985, c. C-34. In that event, only those bids with a valid certification will be eligible to be awarded a contract; otherwise, all bids will be eligible. If at any point in the evaluation process it is found, whether by determination of invalidity of certifications, determination that bids are non-responsive or withdrawal of bids by Bidders, that there are no longer two (2) or more responsive bids with a valid certification, then all responsive bids will be eligible to be awarded a contract. Canada may conduct the validation of Canadian content certifications at any time in the evaluation process including doing so concurrently with other steps.

4.1.2 Phase I: Financial Bid

- (a) After the closing date and time of this bid solicitation, Canada will examine the Bid to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements. Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- (b) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing all of the information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.
- (c) For Bids other than those described in Note C above, Canada will send a written Notice to the Bidder identifying where the Financial Bid is missing information. A Bidder, whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.
- (d) The Bidders who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.
- (e) In its response to the Notice, the Bidder will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Bidder and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- (f) Any other changes to the Financial Bid submitted by the Bidder will be considered to be new information and will be disregarded. There will be no change permitted to

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any other Section of the Bidder's Bid. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, **only** that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.

- (g) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Bidder in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (h) Only Bids found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.1.3 Phase II: Technical Bid – Applies to eligible Mandatory Criteria only, point-rated criteria with no mandatories will be excluded

- (a) Canada's review at Phase II will be limited to a review of the Technical Bid to identify Any instances where the Bidder has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meets any standard or is responsive to all solicitation requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the PBCP. Mandatory technical criteria that are not identified in the solicitation as being subject to the PBCP, will not be evaluated until Phase III.
- (b) Canada will send a written notice to the Bidder (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Bid has failed to meet. A Bidder whose Bid has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Bid has been found responsive to the requirements reviewed at Phase II. Such Bidder shall not be entitled to submit any response to the CAR.
- (c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.
- (d) The Bidder's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Bidder which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Bid, the Bidder shall identify such additional changes, provided that its response must not include any change to the Financial Bid.
- (e) The Bidder's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Bidder must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory

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Criterion. It is not up to Canada to revise the Bidder's Bid, and failure of the Bidder to do so in accordance with this subparagraph is at the Bidder's own risk. All submitted information must comply with the requirements of this solicitation.

- (f) Any changes to the Bid submitted by the Bidder other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, **only** that part of the original Bid as is permitted in this Section.
- (g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Bid, but will be considered by Canada in the evaluation of the Bid at Phase II only for the purpose of determining whether the Bid meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Bid would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve
 - (h) Compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Bidder in response to the CAR. If so, the Bid will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Bidder shall bind the Bidder as part of its Bid, but the Bidder's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Bid
- (i) Canada will determine whether the Bid is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Bidder in accordance with this Section. If the Bid is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (j) Only Bids found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.1.4 Phase III: Final Evaluation of the Bid

- (a) In Phase III, Canada will complete the evaluation of all Bids found responsive to the requirements reviewed at Phase II. Bids will be assessed in accordance with the entire

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requirement of the bid solicitation including the Technical, Financial and Indigenous Participation evaluation criteria.

- (b) A Bid is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.1.5 Technical Evaluation

Mandatory and point rated technical evaluation criteria are included in Annex B.

4.1.6 Financial Evaluation

4.1.6.1 Mandatory Financial Criteria

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price - Bid
SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price - Canadian/Foreign Bidders

4.1.6.2 Point Rated Financial Criteria

Point rated financial evaluation criteria are included in Annex B

4.1.6.3 Point Rated Indigenous Participation Plan Criteria

Point rated Indigenous Participation evaluation criteria are included in Annex B

4.2 Basis of Selection

4.2.1 Basis of Selection – Highest Combined Rating of Technical Merit, Price and Indigenous Participation

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- (a) This basis of selection is defined as the optimal combination of price, technical merit, quality, and the balance of overall benefits to the Crown and the Canadian people as set out in the bid solicitation evaluation criteria. The Bidder with the highest Total Weighted Score will be recommended for contract award.

For each responsive bid, the best value calculation will be determined as follows:

$$\frac{\text{Lowest Compliant bid Price} \times 40}{\text{Bidder's Total Evaluated bid Price}} + \frac{\text{Technical Point Rated Score} \times 40}{\text{Maximum Score Available for bid (100 percent)}} + \frac{\text{Indigenous Participation Point Rated Score} \times 20}{\text{Maximum Score Available for bid (20 points)}} = \text{Total Weighted Score}$$

- (b) When a calculation includes a decimal, calculations will be rounded to the nearest hundredth value.

Example:

(i) 7.254 to the nearest hundredth = 7.25

(ii) 7.255 to the nearest hundredth = 7.26

- (c) Following the completion of the PBCP evaluations in Phase 3, the compliant Bidder with the highest overall Total Weighted Score (Best Value) will be recommended for the award of a contract.
- (d) Please refer to 3.1.1 in this Volume to determine the Total Evaluated bid Price for each Bidder.
- (e) In the case of a tie, the contractor with the lowest Total Estimated Bid price will be recommended for the award of the contract.

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4.2.2 Evaluation Example (40-40-20)

Basis of Selection - Highest Combined Rating Technical Merit (40%), Price (40%) and Indigenous Participation (20%)				
		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		92/100	89/100	75/100
Bid Evaluated Price		\$550,000.00	\$500,000.00	\$450,000.00
Calculations	Technical Merit Score	$92/100 \times 40 = 36.8$	$89/100 \times 40 = 35.6$	$75/100 \times 40 = 30$
	Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36$	$45/45 \times 40 = 40.00$
	Indigenous Participation	12/20	13/20	13/20
Combined Rating		81.53	84.60	83.00
Overall Rating		3rd	1st	2nd

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

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5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Security Requirements – Required Documentation

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

Bidders are reminded to obtain the required security clearance and, as applicable, security capabilities promptly. As indicated above, bidders who do not provide all the required information at bid closing will be given the opportunity to complete any missing information from the AFR form within a period set by the Contracting Authority. If that information is not provided within the timeframe established by the Contracting Authority (including any extension granted by the Contracting Authority in its discretion), or if Canada requires further information from the Bidder in connection with assessing the request for security clearance (i.e., information not required by the AFR form), the Bidder will be required to submit that information within the time period established by the Contracting Authority, which will not be less than 48 hours. If, at any time, the Bidder fails to provide the required information within the timeframe established by the Contracting Authority, its bid will be declared non-compliant.

5.2.3 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

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

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 titled [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.

5.2.4 Additional Certifications Precedent to Contract Award

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5.2.4.1 Status and Availability of Resources

The Bidder certifies that, should it be awarded a Contract as a result of the Bid solicitation, every individual proposed in its Bid will be available to perform the Work as required by Canada's representatives and at the time specified in the Bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its Bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the Bid being declared non-responsive.

5.2.4.2 Education and Experience

5.2.4.2.1 The Bidder certifies that all the information provided in the résumés and supporting material submitted with its Bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting Contract.

SACC Manual clause [A3010T](#) 2010-08-16 Education and Experience

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Contract Security Program (CSP), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to CLASSIFIED/PROTECTED information, assets or sensitive site(s) must EACH hold a valid personnel security screening at the level of SECRET, or RELIABILITY STATUS, as required, granted or approved by the CSP, PWGSC.
3. The Contractor personnel requiring access to RESTRICTED CLASSIFIED/PROTECTED information, assets or sensitive site(s) **must be citizens of Australia, Canada, New Zealand, the United Kingdom, or the United States of America, must be permanent residents of Canada** and must EACH hold a valid personnel security screening at the level of SECRET, or RELIABILITY STATUS, as required, granted or approved by the CSP, PWGSC.
4. The Contractor MUST NOT remove any CLASSIFIED/PROTECTED information or assets from the identified site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.

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5. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP, PWGSC.
6. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide , attached at Annex C;
 - (b) *Contract Security Manual* (Latest Edition).

NOTE: There are multiple levels of personnel security screenings associated with this file. In this instance, a Security Classification Guide must be added to the SRCL clarifying these screenings. The Security Classification Guide is normally generated by the organization's project authority and/or security authority.

NOTE: There are multiple levels of release restrictions associated with this file. In this instance, a *Security Guide* should be added to the SRCL clarifying these restrictions. The *Security Guide* is normally generated by the organization's project authority and/or security authority.

6.2 Financial Capability

SACC Manual clause [A9033T](#) 2012-07-16 Financial Capability

6.3 Controlled Goods Requirement

SACC Manual clause [A9130T](#) 2019-11-28 Controlled Goods Program

6.4 Insurance Requirements

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

PART 7 - RESULTING CONTRACT CLAUSES

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

- 7.1 Statement of Work The Contractor must perform the Work in accordance with the Statement of Work at Annex A, the Statement of Requirements at Appendix A to Annex A, and the Contractor's technical Bid entitled _____, dated _____.

7.1.2 Task Authorization

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

7.1.2.1 Task Authorization Process

The Technical Authority will provide the Contractor with a description of the task using the DND 626, Task Authorization Form specified in Annex G.

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The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis(bases) and methods of payment as specified in the Contract.

The Contractor must provide the Technical Authority, within five (5) calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.

The Contractor must not commence work until a TA authorized by the Procurement Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

7.1.2.2 Task Authorization Limit

The Procurement Authority may authorize individual task authorizations up to a limit of **\$TBD**. Applicable Taxes included, inclusive of any revisions.

Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance.

7.1.2.3 Canada's Obligation - Portion of the Work - Task Authorizations

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

7.1.2.4 Periodic Usage Reports - Contracts with Task Authorizations

The Contractor must compile and maintain records on its provision of services to the federal government under authorized Task Authorizations issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "nil" report.

The data must be submitted on a quarterly basis to the Contracting Authority.

The quarterly periods are defined as follows:

1st quarter: April 1 to June 30;
2nd quarter: July 1 to September 30;
3rd quarter: October 1 to December 31; and
4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than fourteen (14) calendar days after the end of the reporting period.

7.1.2.5 Task Authorization - Department of National Defence

See Annex G for form and information.

7.2 Standard Clauses and Conditions

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

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7.2.1 General Conditions

2040 (2022-12-01), General Conditions - Research & Development, apply to and form part of the Contract.

7.2.2 Supplemental General Conditions

4007 (2022-12-01) [Canada to own intellectual property rights in Foreground Information](#)
4010 (2022-12-01) [Services: Higher complexity](#)
4013 (2022-06-20) [Compliance with on-site measures, standing orders, policies, and rules](#) 4024
(2022-06-20) [Suspension of the work](#)

7.2.3 Disclosure of Information

7.3 Security Requirements

7.3.1 The following security requirements (SRCL, Annex C and related clauses provided by the Contract Security Program) apply and form part of the Contract.

7.3.2 Contractor's Sites or Premises Requiring Safeguarding Measures

7.3.2.1 Where safeguarding measures are required in the performance of the Work, the Contractor must diligently maintain up to date the information related to the Contractor's and proposed individuals' sites or premises for the following addresses:

Street Number / Street Name, Unit / Suite / Apartment Number
City, Province, Territory / State
Postal Code / Zip Code
Country

7.3.2.2 The Company Security Officer must ensure through the [Contract Security Program](#) that the Contractor and individuals hold a valid security clearance at the required level.

7.4 Term of Contract

7.4.1 Period of the Contract

The period of the Contract is from date of Contract to twenty-four (24) months after Contract award, inclusive.

7.4.2 Delivery Date

All the deliverables must be received on or before twenty-four (24) months from date of Contract

7.4.3 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 least fourteen (30) calendar days before the expiry date of the Contract. The option may only be

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exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a Contract amendment.

7.4.4 Comprehensive Land Claims Agreements (CLCAs)

The information will be released at contract award.

The Contract may be subject to the following Comprehensive Land Claims Agreement(s):

The Contract with Task Authorizations is to establish the delivery of the requirement detailed under the Contract, to the Identified Users across Canada, including areas subject to Comprehensive Land Claims Agreements as per Annex D location.

The Contract with Task Authorizations is to establish the delivery of the requirement detailed under the Contract, to the Identified Users across Canada, excluding locations within Yukon, Northwest Territories, Nunavut, Quebec, and Labrador that are subject to Comprehensive Land Claims Agreements (CLCAs). Any requirement for deliveries within CLCAs areas within Yukon, Northwest Territories, Nunavut, Quebec, or Labrador will have to be treated as a separate procurement outside the Contract.

7.4.5 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "D" of the Contract

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Paul Lacoursiere
 Title: Supply Team Lead
 Public Works and Government Services Canada
 Acquisitions Branch
 Directorate: DMPD
 Address: 11 Laurier St Gatineau PQ|QC K1A 0S5 Canada
 Telephone: Cell 343-551-1529
 E-mail address: Paul.Lacoursiere@tpsgc-pwgsc.gc.ca

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

7.5.2 Project Authority

The Project Authority for the Contract is:

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

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In its absence, the Project Authority is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____-____-____

E-mail address: _____

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

7.6 Proactive Disclosure of Contracts with Former Public Servants

SACC Manual clause A3025C (2020-05-04) - Proactive Disclosure of Contracts with Former Public Servants

Use the following clause in contracts for services, to confirm with the winning bidder, that they agreed that their status as a former public servant in receipt of a pension will be reported on the quarterly published departmental websites as part of the Proactive Disclosure of Contracts Reports as per TBS, in accordance with Contracting Policy Notice: 2019-01 and Guidelines on the Proactive Disclosure of Contracts.

Use this clause in conjunction with clause A3025T, A3026T, M3025T or M3026T, as applicable.

7.7 Payment

7.7.1 Basis of Payment

For the Work described in section 5 - Tasks of the Statement of Work in Annex A:

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a firm lot price for a cost of \$_____ (*insert the amount at contract award*) in accordance with the Basis of Payment at Annex B. Customs duties are included, and Applicable Taxes are extra.

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

For the Work described in section 5.10 - Task Authorization of the Statement of Work in Annex A:

The Contractor will be paid for the Work specified in the authorized task authorization, in accordance with the Basis of Payment at Annex B.

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Canada's liability to the Contractor under the authorized task authorization must not exceed the limitation of expenditure specified in the authorized task authorization. Custom duties are included, and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized task authorization 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 authorized, in writing, by the Contracting Authority before their incorporation into the Work.

7.7.2 Limitation of Expenditure - Cumulative Total of all Task Authorizations

C9010C (2013-04-25) [Limitation of Expenditure - Cumulative Total of all Task Authorizations](#)

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of \$ _____. Customs duties are excluded and Applicable Taxes are extra.
2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
3. 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 sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions, whichever comes first.
4. 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.

7.7.3 Schedule of Milestones

Milestone payments will be laid out in Annex B

7.7.4 Electronic Payment of Invoices – Contract

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

- a. Direct Deposit (Domestic and International);

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7.8 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Each invoice must be supported by:

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

2. Invoices must be distributed as follows:

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

OR

- a. The original and one (1) copy must be forwarded to the following address for certification and payment.

_____ (Insert at contract award the name of the organization)

_____ (Insert at contract award the address of the organization)

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

7.9 Certifications and Additional Information

7.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the

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Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

7.9.2 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.

7.9.3 SACC Manual Clauses

2008-05-12- [A3060C Canadian Content Certification](#)

7.10 Applicable Laws

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

7.11 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions
- (c) the general conditions
- (d) Annex A, Statement of Work and Statement of Requirement
- (e) Annex B, Basis of Payment;
- (f) Annex C, Security Requirements Check List
- (g) Annex D, Secret Document;
- (h) Annex E, Indigenous Participation Plan
- (i) Annex G signed Task Authorizations (including all of its annexes, if any)
- (j) the Contractor's bid dated _____, (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award:* ", as clarified on _____ " **or** ",as amended on _____" *and insert date(s) of clarification(s) or amendment(s) including its Inuit Benefits Plan. (if applicable).*

7.12 Defence Contract

SACC Manual clause [A9006C](#) 2012-07-16 Defence Contract

7.13 Insurance

SACC Manual clause [G1005C](#) 2016-01-28 Insurance - No Specific Requirement

7.14 Controlled Goods Program.

SACC Manual clause [A9131C](#) 2020-11-19, Controlled Goods Program

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7.15 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

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ANNEX “A”

STATEMENT OF WORK

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ANNEX A

STATEMENT OF WORK

1. TITLE

Polar Over-the-Horizon Radar –

2. BACKGROUND

- 2.1. During 2015 to 2020, Defence Research and Development Canada (DRDC) executed the All Domain Situational Awareness (ADSA) Program, which included a study of the feasibility of using sky-wave over-the-horizon radar technology in the polar cap region of the Canadian Arctic for detecting air targets. This study involved the installation of the first Canadian Polar Over-the-Horizon Radar (POTHR) system, at a location in Nunavut.
- 2.2. The objective of this Statement of Work (SOW) is to design, build, install, and operate a second Canadian POTHR system at a location in the Northwest Territories, which will operate simultaneously with the previously installed Nunavut POTHR system. Additional information on the Nunavut POTHR system can be obtained by the Bidder from contracts W7714-186492/001/SV and W7714-186492/002/SV. The two Canadian POTHR systems will operate independently from one another with no inter-connectivity requirements.
- 2.3. The SOW also outlines task authorization work that may be required for ongoing Technical Investigation and Engineering Services (TIES) to support further development and operation of the POTHR system.

3. ACRONYMS

ADSA	All Domain Situational Awareness
CA	Contract Authority
CDR	Critical Design Review
DRDC	Defence Research and Development Canada
FAT	Factory Acceptance Test
GFE	Government-Furnished Equipment
IDR	Initial Design Review
MPS	Master Project Schedule
NCR	National Capital Region
PDR	Preliminary Design Review
PM	Project Manager
PMP	Project Management Plan
POTHR	Polar Over-the-Horizon Radar
PRM	Project Review Meeting
RMP	Risk Management Plan
SAT	Site Acceptance Test
SDD	System Design Document
SEP	System Engineering Plan
SOW	Statement of Work
SPR	System Power Requirements
TA	Technical Authority
TIES	Technical Investigation and Engineering Services
VCR	Visit Clearance Request
WBS	Work Breakdown Structure

4. APPLICABLE DOCUMENTS & REFERENCES

- AD1:** Appendix A – STATEMENT OF REQUIREMENTS, Polar Over-the-Horizon Radar – Second System
- AD2:** Annex D – TRANSMIT AND RECEIVE SITE LOCATION, Classified SECRET
- AD3:** H129-48/2015E-PDF – Safety Code 6, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kilohertz to 300 gigahertz – Health Canada
- AD4:** MIL-STD-1474E – Noise Limits, Design Criteria Standard – Department of Defense
- AD5:** MIL-STD-499B – Systems Engineering – Department of Defense
- AD6:** MIL-STD-1521B – Technical Reviews and Audits for Systems, Equipments, and Computer Software – Department of Defense

5. TASKS

- 5.1. **System Delivery** – The Contractor must design, build, test, and install transmit and receive systems in compliance with the requirements specified in Appendix A and Annex D.
- 5.2. **Project Management** – The Contractor must maintain a Project Manager (PM) throughout the duration of the contract.
- 5.2.1. The Contractor must assign a Contractor Project Manager with the responsibility and authority to plan, execute, and control the work on behalf of the Contractor.
- 5.2.2. The Contractor must prepare, deliver, implement, and maintain a Project Management Plan (PMP), based on guidance from MIL-STD-499B, describing the Contractor's plan and processes for organizing, staffing, controlling, and directing the activities necessary to deliver the contractual requirements.
- 5.2.3. The Contractor PM must be the primary point of contact between the Contractor and the Technical Authority (TA).
- 5.2.4. The Contractor must prepare, deliver, implement, and maintain a Work Breakdown Structure (WBS), encompassing all the contractual requirements, and use the approved WBS as the basis for organizing, controlling, and reporting the progress of the Work of the Contract.
- 5.2.5. The Contractor must prepare, deliver, implement, and maintain a Risk Management Plan (RMP) that identifies key schedule, cost, and technical risks, including mitigation approaches to be considered for the five (5) highest-impact project risks.
- 5.2.6. The Contractor must prepare, deliver, implement, and maintain a Master Project Schedule (MPS), referencing the WBS, and identifying the major milestones in each of the project phases, including design, fabrication, testing, installation, and operations. The Contractor must use the approved master project schedule as the governing document for all scheduling activities.
- 5.2.7. The Contractor must prepare, deliver, implement, and maintain a Systems Engineering Plan (SEP) that addresses the technical perspective of each project phase, including all technical reviews, testing, and configuration management.
- 5.3. **Communication and Meetings** – The Contractor must set up, co-chair, and attend all formal and informal meetings with representatives of Canada, to review progress throughout the duration of the Contract.

5.3.1. For all formal meetings, the Contractor must:

- a) Provide meeting materials including an attendee list, agenda, and where applicable, slide decks, text documents and/or spreadsheets to the TA at least two (2) business days before the meeting time;
- b) Provide teleconferencing or physical meeting facilities, to facilitate the meeting;
- c) Produce meeting minutes within five (5) business days of the meeting, along with a separate action items document including the items discussed, action items raised, points of contact for each action item, and updated status; and
- d) Distribute the meeting minutes and action items document to all attendees, within two (2) business days following the approval of the minutes by the TA.

5.3.2. The Contractor must conduct a Kick-off Meeting, co-chaired by the Contract Authority (CA), no later than one (1) month after Contract award.

5.3.3. The Contractor must conduct Project Review Meetings (PRM) with the TA, monthly starting after Contract award, to review progress and technical issues.

5.3.4. The Contractor must conduct:

- a) An initial design review (IDR) meeting, two (2) months after Contract award;
- b) A preliminary design review (PDR) meeting, four (4) months after Contract award; and
- c) A critical design review (CDR) meeting, seven (7) months after Contract award.

5.4. **Design Phase** – The Contractor must complete a minimum of three (3) stages of design review; initial design review, preliminary design review, and critical design review, based on guidance from MIL-STD-1521B.

5.4.1. The Contractor must prepare and maintain a System Design Document (SDD). The SDD must be updated and delivered to the TA at least five (5) business days before each design review meeting (Initial, Preliminary, and Critical).

5.4.2. The Contractor must prepare and maintain a Traceability Matrix document identifying the mapping of the Statement of Requirements to the system design document. The Traceability Matrix document must be updated and delivered to the TA at least five (5) business days before each design review meeting (Initial, Preliminary, and Critical).

5.4.3. The Contractor must prepare and maintain an analysis of the System Power Requirements (SPR), in the form of a spreadsheet, identifying all equipment and their respective power requirements. The SPR must be updated and delivered to the TA at least five (5) business days before each design review meeting (Initial, Preliminary, and Critical). The analyzed system power requirements may change over time throughout the design phase.

5.4.4. The Contractor must prepare and maintain a Hierarchical Equipment List which documents all equipment that defines the system, including Government-furnished components. The Hierarchical Equipment List must be updated and delivered to the TA at least five (5) business days before each design review meeting (Initial, Preliminary, and Critical).

5.4.5. The Contractor must identify, document, and deliver the technical specifications, data sheets and technical drawings of the equipment comprising the system to the TA. This is to facilitate the integration of the system with the Government-furnished equipment. The equipment specifications

and drawings must be updated and delivered to the TA at least five (5) business days before each design review meeting (Initial, Preliminary, and Critical).

5.5. **Factory Acceptance Test (FAT)**

- 5.5.1. The Contractor must prepare and deliver, within eleven (11) months of Contract award, a Factory Acceptance Test Procedure, for review and approval by the TA.
- 5.5.2. The Contractor must prepare and deliver, within eleven (11) months of Contract award, a Factory Acceptance Test Traceability Matrix identifying a mapping of the Statement of Requirements to the steps within the FAT procedure intended to test the requirement.
- 5.5.3. The Contractor must perform a dry run of the full FAT procedure, to ensure challenges are resolved in advance of the FAT.
- 5.5.4. The Contractor must conduct a FAT Readiness Review, at least five (5) business days prior to conducting the FAT, by preparing and presenting a report to the TA documenting the results of the dry run.
- 5.5.5. The Contractor must conduct the FAT at the Contractor facility following the approved FAT procedure and in the presence of the TA, within twelve (12) months of Contract award.
- 5.5.6. The Contractor must conduct a FAT Functional Configuration Audit with the TA, no more than ten (10) business days after the FAT, and produce a report documenting the results, validating that a successful FAT has occurred and has been witnessed by the TA.

5.6. **Local Field Test**

- 5.6.1. Local Field Test is defined as testing of the full system, in several installments, at a DRDC test bed located in the National Capital Region (NCR). The test bed is a Transmit site, which includes an antenna array, that is a scaled down version of the deployment transmit site and provides a real-life environment for testing. RLC values for the worst-case load scenario of a single element of the antenna array may be provided in preparation of the Local Field Test. This testing mitigates risks associated with discovering technical challenges at the final Site Acceptance Test (SAT), where it is extremely difficult to address due to the logistics associated with site access. The Local Field Test will be on Government premises therefore, the processing of a Visit Clearance Request (VCR) is to be expected.
- 5.6.2. The Contractor must prepare and deliver a Local Field Test Procedure, for review and approval by the TA within thirteen (13) months of Contract award.
- 5.6.3. The Contractor must prepare and deliver a Local Field Test Traceability Matrix identifying a mapping of the Statement of Requirements to the steps within the test procedure intended to test the requirement, within thirteen (13) months of Contract award.
- 5.6.4. The Contractor must conduct the Local Field Test following the approved procedure and in the presence of the TA, within fourteen (14) months of Contract award.
- 5.6.5. The Contractor must conduct a Local Field Test Functional Configuration Audit with the TA, within one (1) month following the Local Field Test, and produce a report documenting the results, validating that appropriate testing has occurred and has been witnessed by the TA.

5.7. **System Transportation and Installation**

- 5.7.1. The Contractor must produce and deliver Site Installation Drawings showing equipment installation compliant with the Statement of Requirements, including the shelters, equipment in these shelters,

- earth well/grounding design, and shelter patch panels, within eighteen (18) months of Contract award.
- 5.7.2. The Contractor must package all components to provide adequate protection against damage, deterioration, and loss of identification during storage, handling, and shipment.
- 5.7.3. The Contractor must transport equipment to the sites in the Canadian Northwest Territories described in Annex D.
- 5.7.4. The Contractor must install the systems. This includes placement of the system shelters and any associated patch panels on the GFE gravel pads, as well as populating the shelters with the electronic equipment of the systems. This also includes the installation of the elements of the antenna arrays at both transmit and receive sites and laying of the transmission lines and connecting them between the elements of the antenna arrays and the shelters and/or patch panels, in their respective locations, as directed by the TA, within twenty (20) months of Contract award.
- 5.8. **Site Acceptance Test (SAT)**
- 5.8.1. The Contractor must prepare and deliver, within twenty (20) months of Contract award, a Site Acceptance Test Procedure, for review and approval by the TA.
- 5.8.2. The Contractor must prepare and deliver, within twenty (20) months of Contract award, a Site Acceptance Test Traceability Matrix identifying a mapping of the Statement of Requirements to the steps within the SAT procedure intended to test the requirement.
- 5.8.3. The Contractor must perform a dry run of the SAT procedure, to ensure challenges are resolved in advance of the SAT.
- 5.8.4. The Contractor must conduct a SAT Physical Configuration Audit with the TA after installation and at least five (5) business days before the SAT, and produce a report documenting the results, verifying the as-built system baseline.
- 5.8.5. The Contractor must conduct a SAT Readiness Review after the SAT dry run and at least five (5) business days before the SAT, by preparing and presenting a report to the TA documenting the results of the dry run.
- 5.8.6. The Contractor must conduct the SAT following the approved SAT procedure and in the presence of the TA, within twenty-two (22) months of Contract award.
- 5.8.7. The Contractor must conduct a SAT Functional Configuration Audit with the TA, no more than ten (10) business days after the SAT, and produce a report documenting the results, validating that a successful SAT has occurred and has been witnessed by the TA.
- 5.9. **Systems Operation Support**
- 5.9.1. The Contractor must prepare and deliver an Operations Procedure Manual for the transmit and the receive sites, for review and approval by the TA at least five (5) business days prior to conducting Operations.
- 5.9.2. The Contractor must prepare and deliver, within twenty-three (23) months of Contract award, a User Manual for all applications and equipment with any form of user interface and provide updates following configuration changes.
- 5.9.3. The Contractor must provide Spare Parts for all functional components identified in the Statement of Requirements, to be retained at the system site locations.

- a) The Contractor must deliver the spare parts to the site locations prior to system installations. These are for immediate use in case of faults with equipment. Defective modules will be swapped with the spare ones and will be then sent for repair.
- b) The Contractor must provide the spare quantities provided in the following table:

Functional Component	System Quantity	Spares Quantity	Total Quantity
Waveform generator	256 channels	32 channels	288 channels
Digital up-converter	256 channels	32 channels	288 channels
Digital-to-analog converter	256 channels	32 channels	288 channels
High-power amplifier (with harmonic filtering)	256 channels	103 channels	359 channels
Four-way high-power combiner	256 input channels 64 output channels	32 input channels 8 output channels	288 input channels 72 output channels
Operator console	1 unit	1 unit	2 units
Transmit antenna array	64 antennas 64 transmission lines	4 antennas 8 transmission lines	68 antennas 72 transmission lines
Receive antenna array	1024 antennas 1024 transmission lines	8 antennas 16 transmission lines	1032 antennas 1040 transmission lines

6. TASK AUTHORIZATION WORK

- 6.1. The Contractor may be required to perform various tasks within the scope of the Contract, on an "as and when requested" basis. An obligation of any work will come into force only when a Task Authorization is approved and issued in accordance with the Task Authorization Process of the Contract using the form DND-626.
- 6.2. The Contractor may undertake TIES tasks when further investigations are warranted or when problems occur with the POTH systems where Contractor assistance is necessary to investigate the cause of the problem(s) and determine and evaluate solutions. To satisfy any TIES task, the Contractor must provide relevant data, report findings, and make recommendations supported by sound engineering practices as detailed in the Task Authorization.
- 6.3. **Site Preparation**
- 6.3.1. The Contractor may be required to clear the Transmit and Receive sites described in Annex D of vegetation obstacles prior to the installation of the antenna arrays. Any such activities would need to be reviewed by the TA to ensure local restrictions are followed. Heavy machinery or solutions with detrimental impacts to the environment may not be acceptable.
- 6.3.2. The Contractor may be required to support the commissioning of the Transmit and Receive site electrical power supplies consisting of a Government-furnished generator with transformers.
- 6.3.3. The ground will be frozen and covered with deep snow in the winter, so there are seasonal limitations to when the site preparation work may be performed.

6.4. System Operation

- 6.4.1. The Contractor may be required to provide staff, under the Task Authorization, to operate and maintain all functional components of the system in an operational state, for fourteen (14) consecutive days up to twelve (12) hours per day. This includes conducting pre-operational inspections of the antenna arrays and supplying generator fuel throughout system operation. Operating manuals may be provided to operate all Government-furnished equipment at both the Transmit and Receive sites prior to Operations. The locations of system operations are described in Annex D.
- 6.4.2. The Contactor must cycle up the system, transitioning the site from a power off state to an operational state at least seven (7) days prior to the start of Operations, and report any unexpected conditions or events to the TA within twenty-four (24) hours of the event. The cycle up activities may include transporting functional modules from local storage locations to the operational sites, reconnecting modules to have the system conform to the as-built system baseline. The cycle up may also include a change in operation mode, as defined in the Statement of Requirements.
- 6.4.3. The Contractor must conduct the site Operations following the TA approved Operations Procedure Manual.
- 6.4.4. The Contractor must use spare parts to immediately replace failed system components and prepare the failed component for transportation to a Contractor facility for repair when covered under warranty.
- 6.4.5. For the Receive site, the Contractor must duplicate all recorded Data to external media that are considered part of the system. The system must have two sets of external media, such that one set is used to store the duplicate data, which is then delivered to the TA, while the other set is kept at the site for the next Operation. The site must have always at least one set of external media. The Contractor must package the external media set holding the duplicate data for shipping and provide it to a designated onsite Crown representative. The Contractor must provide the external media required to support each Operation.
- 6.4.6. While at either the Receive or Transmit location, the Contractor must delete system recorded data within seven (7) days of receiving a request from the TA.
- 6.4.7. The Contractor must cycle down the system to protect the site from the environment. This may include putting the site into a form of hibernation or other safe state between Operations. This hibernation should include ensuring that the equipment shelters are maintained above the minimum indoor storage temperature as defined in the Statement of Requirements to protect the equipment against damage from the cold. If it is not feasible to put the system in a hibernation mode, the cycle down activity may include disconnecting equipment and transporting it to local storage locations.
- 6.4.8. The Contractor must review the operational procedures, and document Lessons Learned after each operational period, then propose procedure changes to the TA.

6.5. Hardware component

- 6.5.1. The Contractor may be required to develop and deliver functional hardware components (e.g., waveform generator, high-power amplifier, antenna, etc.), in addition to the spare components identified in 5.9.3 b), to support POTH applications.

7. DELIVERABLES

Number	Task Reference & Description of the Deliverables	Format	Delivery Date
7.1	5.2.2 – Project Management Plan 5.2.4 – Work Breakdown Structure 5.2.5 – Risk Management Plan 5.2.6 – Master Project Schedule 5.2.7 – Systems Engineering Plan	Electronic – Word and/or PDF	Updated Quarterly – Beginning one (1) month after Contract award.
7.2	5.3.1 a) – Formal Meeting Agenda and supporting meeting materials.	Electronic – Word, and/or PDF	At least two (2) business days in advance of each formal meeting.
7.3	5.3.1 c) – Formal Meeting Minutes and Action items document.	Electronic – Spreadsheet, Word, and/or PDF	Within five (5) business days of the meeting date.
7.4	5.4.1 – System Design Document 5.4.2 – Traceability Matrix 5.4.3 – System Power Requirements 5.4.4 – Hierarchical Equipment List 5.4.5 – Equipment Specifications and Drawings	Electronic – Spreadsheet, PowerPoint, Word, and/or PDF	At least five (5) business days before each design review (Initial, Preliminary, and Critical).
7.5	5.5.1 – FAT Procedure 5.5.2 – FAT Traceability Matrix	Electronic – Word, and/or PDF	Within eleven (11) months of Contract award.
7.6	5.5.4 – FAT Readiness Review Report	Electronic – Word, and/or PDF	After the FAT dry run and at least five (5) business days before the FAT.
7.7	5.5.6 – FAT Functional Configuration Audit	Electronic – Word, and/or PDF	Within ten (10) business days of the FAT.
7.8	5.6.2 – Local Field Test Procedure 5.6.3 – Local Field Test Traceability Matrix	Electronic – Word, and/or PDF	Within thirteen (13) months of Contract award.
7.9	5.6.5 – Local Field Test Functional Configuration Audit	Electronic – Word, and/or PDF	Within thirteen (13) months of Contract award.
7.10	5.7.1 – Site Installation Drawings	Electronic – PDF	Within eighteen (18) months of Contract award.
7.11	5.7.4 – Install Systems at Sites	Equipment	Within twenty (20) months of Contract award.
7.12	5.8.1 – SAT Procedure 5.8.2 – SAT Traceability Matrix	Electronic – Word, and/or PDF	Within twenty (20) months of Contract award.
7.13	5.8.4 – SAT Physical Configuration Audit Report	Electronic – Word, and/or PDF	After the installation and at least five (5)

Number	Task Reference & Description of the Deliverables	Format	Delivery Date
			business days before the SAT.
7.14	5.8.5 – SAT Readiness Review Report	Electronic – Word, and/or PDF	After the SAT dry run and at least five (5) business days before the SAT.
7.15	5.8.7 – SAT Functional Configuration Audit	Electronic – Word, and/or PDF	Within ten (10) business days of the SAT.
7.16	5.9.1 – Operation Procedure Manual	Electronic – Word, and/or PDF. A hard copy, in English, must be maintained onsite. A separate laminated hardcopy of the wiring and connection diagram, in English, must be maintained at all times at the site.	At least five (5) business days before Operations begin.
7.17	5.9.2 – System User Manual	Electronic – Word, and/or PDF. A hard copy, in English, must be maintained onsite	Within twenty-three (23) months of Contract award.
7.18	5.9.3 a) – System Spare Parts	Equipment	At the time of system transportation, and ongoing as required.
7.19	Task Authorization Work – Up to twelve (12) System Operations, each as described in 6.4, optioned and exercised individually over a maximum total period of three (3) years following the SAT. 6.4.5 – Recorded Data (external media) 6.4.8 – Lessons Learned document and Procedure Change Proposals	Electronic – Word, and/or PDF	Following each Operation phase, or as requested by the TA.

8. LANGUAGE OF WORK

8.1. The Contractor must provide all communication, deliverables, and tasks in English.

9. LOCATION OF WORK

- 9.1. The Contractor must perform design and FAT work at Contractor facilities.
- 9.2. The Contractor must perform the Local Field Test at a DRDC test bed located in the NCR.
- 9.3. The Contractor must perform site installation, SAT, and Operations tasks in multiple remote Canadian Arctic locations, as described in Annex D.

10. TRAVEL

- 10.1. The Contractor must travel to multiple remote Canadian Arctic locations, as described in Annex D.
- 10.2. The Treasury Board Travel Directive will apply for any travel, accommodation, and living expenses. The details will be laid out in the basis of payment document.

11. GOVERNMENT-FURNISHED EQUIPMENT (GFE)

- 11.1. The Receive site GFE includes:
 - 1024-channel Receiver as described in Appendix A
 - Site for antenna array and system installation
 - Road access within site
 - Gravel shelter pad at site
 - Electrical power supply
 - Power cables from power source to shelter
 - Logistics support as described in Annex D
- 11.2. The Transmit site GFE includes:
 - Site for antenna array and system installation
 - Road access within site
 - Gravel shelter pad at site
 - Electrical power supply
 - Power cables from power source to shelter(s)
 - Logistics support as described in Annex D

12. SPECIAL CONSIDERATIONS

- 12.1. The ground will be frozen and covered with deep snow in the winter, so there may be seasonal limitations to when the antenna arrays can be installed.
- 12.2. Main power access is from local utilities and is beyond the control of the Government. Generators are being procured by the Government as backup power sources which will require frequent fueling.

APPENDIX A to ANNEX A

STATEMENT OF REQUIREMENTS

1. Transmitter functional requirements

1.1. Functional components

1.1.1. Waveform generator

The system must have a digital waveform generator with 256 channels, which produces, simultaneously, in-phase and quadrature digital baseband waveforms.

1.1.2. Digital up-converter

The system must have a digital up-converter with 256 channels, which converts in-phase and quadrature digital baseband waveforms into real-value digital waveforms at a specified carrier frequency.

1.1.3. Digital-to-analog converter

The system must have a digital-to-analog converter with 256 channels.

1.1.4. High-power amplifier with harmonic filter

The system must have a high-power amplifier with harmonic filter with 256 individual channels grouped into 64 output channels by combining the output of groups of 4 individual channels, using a four-way high-power combiner.

1.1.5. Operator console

The system must have a laptop computer transmit operator console that provides a user interface, applications, and equipment required to perform configuration and monitoring of the waveform generator, digital up-converter, digital-analog converter, and high-power amplifier.

1.1.6. Antenna array

The system must have a transmit antenna array with 64 elements, where each of the 64 output channels is connected to one antenna of the array by means of one coaxial transmission line.

1.2. Configuration

1.2.1. Configuration tool

A software application must be delivered that provides a single-screen configuration tool on the transmit operator console for configuring all user-selectable parameters for the waveform generator, digital up-converter, digital-analog converter, and high-power amplifier.

1.2.2. Frequency change

The configuration tool must allow a single entry to change the carrier frequency of all channels simultaneously.

1.2.3. Logging of configuration

The configuration tool must log the carrier frequency, the waveform definition file, the up-conversion rate, the transmit start time, and the transmit stop time, in a file accessible to the system operator.

1.3. Monitoring

1.3.1. Monitoring tool

A software application must be delivered that provides a single-screen monitoring tool on the operator console for displaying whether the system is transmitting or not, the carrier frequency, the name of the waveform definition file, the up-conversion rate, the most recent transmit start time, any errors preventing the intended transmissions and any system related warnings.

1.3.2. Channel health

The monitoring tool must determine the forward and reverse power of the transmitted signal in each 256 analog channel and report measured values in a 16-by-16 matrix showing the measured numerical values in decibels with a measurement uncertainty margin of no worse than ± 0.5 decibel, inside a color-coded cell, with the color codes reflecting whether the reported power levels meet certain, user selectable, pre-set threshold values.

1.3.3. Logging of monitoring

The monitoring tool must log the forward and reverse power levels of the transmit signal at a rate of no less than 1 measurement per second.

1.3.4. Loss of communication

The monitoring tool must log and report any instances of internal communication failures between system components that result in the corruption of waveform data and abort the transmission within the stop latency upon discovery of the failure.

General information: Discontinuities in the waveform data can lead to corrupted waveforms and violation of the system radio licence; thus, internal data communication failures are not acceptable.

2. Transmitter signal requirements

2.1. Waveform generation

2.1.1. Waveform generation rate

The system must be capable of reading 256 channels of digital in-phase and quadrature waveforms, having baseband bandwidths of up to 50 kilohertz (+/- 25 kilohertz), from storage and forwarding it to the 256-channel digital up-converter.

General information: To allow for antialiasing filters, it is recommended that the minimum complex sampling rate be 25% higher than the baseband bandwidth of the waveforms. It is estimated that the waveform generation requires a data rate of at least 250 kilobytes per second per channel, or for 256 channels, it requires a data rate of at least 64 megabytes per second.

2.1.2. Waveform storage

The system must have a minimum of 8 terabytes dedicated to waveform storage in addition to any space needed for software applications used by the system.

2.1.3. Waveform file upload

The system must allow the user to connect a commercial grade off-the-shelf laptop computer to the system and upload a waveform to the system storage at a data rate of at least 100 megabytes per second.

2.1.4. Shading

The system must allow the user to apply a user-defined amplitude and phase weighting to each of the 256 channels, through selecting text files from the Graphical User Interface of the program. This process is referred to as "shading". When multiple channels are combined and fed to a common antenna feed, the system must ensure that a common amplitude and phase weighting is applied to all combined channels.

General information: The intent of shading is to allow the user to define a 64-channel basic radar waveform that is independent of carrier frequency. Basic radar waveforms need only be modified by amplitude and phase when applied to a phased array at an arbitrary carrier frequency. The shading process requires much less storage space than programming and uploading waveform files for every conceivable carrier frequency that could be used during a test. More complicated radar waveforms, involving for example multiple simultaneous beams, may not be able to use shading.

2.1.5. Waveform sequencing

The system must be capable of storing and transmitting sequences of up to 10,000 entries. A sequence is a set of waveforms to be transmitted consecutively and automatically, where each waveform in the set is referred to as an entry. Each entry in the sequence may have a unique waveform definition, carrier frequency, start time, stop time, and shading. The overall start time of a waveform sequence must be aligned with the 1 second boundary.

General information: The primary intent of the sequence is to allow the transmitter to operate as a wide-sweep backscatter ionogram. A dedicated Government-furnished receiver outside the scope of this Statement of Requirements will be used for this operating mode. While the wide-sweep backscatter ionogram does not require a unique waveform for each carrier frequency, the ability to change waveform across entries of the sequence is retained in order to facilitate more complicated experiments.

2.1.6. Start of waveform generation

The start of waveform generation must be selectable as either manual by user command through a Graphical User Interface or automatic at a time pre-configured by the user. A failure of the system to start by either of these means during acceptance testing (such as the case of a system crash) will be considered a failure to meet this requirement.

2.1.7. Time standard

When starting at a pre-configured time, the system must generate and use a Global Positioning System-derived pulse-per-second signal, with a timing accuracy better than +/- 100 nanoseconds, as the time reference.

General information: This requirement is to ensure that transmit and receive components of the system are using the same time reference.

2.1.8. Start latency

In the case of a manual start through user command, the waveform generation must start within 30 seconds of the user command being issued.

2.1.9. Stop of waveform generation

The stop of waveform generation must be selectable as either manual through by user command through a Graphical User Interface or automatic at a pre-configured time. A failure of the system to stop by either of these means (such as the case of a system crash) will be considered a failure to meet this requirement.

2.1.10. Stop latency

In the case of a manual stop through user command, the waveform generation must stop within 30 seconds of the user command being issued. Similarly, in the case of a scheduled stop, the system must stop within 30 seconds of the scheduled stop time.

2.2. Digital up-conversion

2.2.1. Frequency range

The digital up-converter numerically controlled oscillator must be adjustable over the range 3 to 30 megahertz at a resolution of 1 hertz.

2.2.2. Frequency selection

The operator must be able to select a single numerically controlled oscillator frequency common to all channels using the configuration tool or a waveform sequence.

2.2.3. Frequency cadence

When transmitting a sequence, the system must be able to transmit new carrier frequencies at a cadence of no less than one transmit carrier frequency every 200 milliseconds, except when a new carrier frequency involves a change of high-power amplifier harmonic filter bands, in which case the cadence must be no less than one transmit carrier frequency every 500 milliseconds.

General information: As an example, when transmitting a sequence, the system can start transmitting at carrier frequency "x" at time equals 0 seconds, start transmitting at carrier frequency "y" at time equals 0.2 seconds, and so on. There may be a gap in transmissions immediately prior to time equals 0.2 seconds in order for the system to re-configure from frequency "x" to frequency "y", which is addressed in the next requirement.

2.2.4. Frequency change time

When transmitting a sequence, the system must have a maximum frequency change time of 50 milliseconds, except when a frequency change involves a change of high-power amplifier harmonic filter bands, in which case the system must have a maximum frequency change time of 500 milliseconds.

General information: As an example, when transmitting a sequence, the system can start transmitting at carrier frequency "x" at time equals 0 seconds, stop transmitting at carrier frequency "x" at time equals 0.15 seconds, start transmitting at carrier frequency "y" at time equals 0.2 seconds, stop transmitting at carrier frequency "y" at time equals 0.35 seconds, and so on.

2.2.5. Digital up-conversion factor

The selection of in-phase and quadrature baseband bandwidths must be user-selectable and consist of at least the following selections: 50 kilohertz, 20 kilohertz, and 10 kilohertz, with the up-conversion rate common to all channels.

2.2.6. Phase coherence

At the start of waveform generation, the numerically controlled oscillators for all channels must start from the same state to ensure that the in-phase and quadrature waveforms of all channels are multiplied by the same digital sinusoids in the up-conversion process.

General information: The phase coherence requirement can be confirmed by verifying the inter-channel time skew requirement, described below, using a tonal signal.

2.2.7. Amplitude resolution

All the signal processing on the waveform must be represented at an amplitude resolution of at least 16 bits.

2.3. Digital-to-analog conversion

2.3.1. Frequency standard

The system must generate and use a Global Positioning System-disciplined clock signal as the frequency reference for the digital-to-analog conversion.

2.3.2. Amplitude resolution

The waveform must be represented at an amplitude resolution of at least 16 bits.

2.3.3. Inter-channel time skew

The maximum time skew between any pair of channels is 1 nanosecond.

2.3.4. Length of waveform

The length of the waveform must be limited only by the data storage capacity of the system.

General information: This requirement can lead to waveforms that are several hours in length.

2.3.5. Waveform integrity

The system must only produce an output that is a replica, at the up-conversion frequency of operation, of the programmed in-phase and quadrature waveforms as defined in the user-uploaded files. No extra signals whether random, transient, or otherwise, must be transmitted by the system.

General information: Extra signals that are not based on the in-phase and quadrature waveforms can result in violations of the system radio licence and in unwanted artifacts in the radar system data. This requirement addresses the issue where unwanted transmissions take place either before the intended start or after the intended stop of a waveform.

2.4. High-power amplification with harmonic filtering

2.4.1. Minimum output power

Each of the 256 individual channels in the power amplifier must provide an output power of no less than 1 kilowatt continuous wave at all carrier frequencies and under all load conditions presented by the antenna array, as measured at a reference plane at the power amplifier with harmonic filter end of the cables connecting the power amplifier with harmonic filter and the four-way high-power combiners. This requirement refers to forward power (power with a Poynting vector flowing from the power amplifier towards the antenna array) at the fundamental frequency. This power is measured at a reference plane that is after harmonic filtering, but before the four-way high-power combiners and cable runs to the antennas.

General information: The forward power of the system is therefore no less than 256 kilowatts.

2.4.2. Power adjustability

The power amplifier output power must be adjustable by varying the amplitude of the input waveform.

General information: The power amplifier will likely work in compression, so there is no explicit linearity requirement.

2.4.3. Power variation across channels

For an identical input signal amplitude, frequency, and load condition across all channels of the power amplifier, the maximum difference in output power between any pair of channels of the power amplifier, measured at a reference plane after the harmonic filter and before the four-way high-power combiner, must be no more than 1 decibel for all frequencies.

2.4.4. Reverse power

Each channel of the power amplifier must be able to operate continuously and indefinitely with up to 1 kilowatt of reverse power (power with a Poynting vector flowing from the antenna array towards the power amplifier), under all load conditions presented by the antenna array (including full reflection), as measured at a reference plane at the power amplifier with harmonic filter end of the cables connecting the power amplifier with harmonic filter and the four-way high-power combiners, and under all forward power levels.

2.4.5. Modulations

The power amplifier must support linear frequency modulated pulses, with defined rise and fall times.

2.4.6. Rise time

The power amplifier must be capable of producing output waveforms across all channels with rise time of no more than 100 microseconds.

General information: Rise time is defined as the time it takes the output signal to change from 10% to 90% of its maximum amplitude.

2.4.7. Fall time

The power amplifier must be capable of producing output waveforms across all channels with fall time of no more than 100 microseconds.

General information: Fall time is defined as the time it takes the output signal to change from 90% to 10% of its maximum amplitude.

2.4.8. Frequency range

The power amplifier must operate over a frequency range of 3 megahertz to 30 megahertz.

2.4.9. Harmonic suppression

The power amplifiers must incorporate high-power harmonic filters that suppress unwanted odd and even harmonics of the carrier frequency from 3 megahertz up to 30 megahertz to below -60 decibels-carrier. In addition, odd and even harmonics falling in the frequency bands of 116-150 megahertz, 225-400 megahertz, 1218-1400 megahertz, and 3700-4200 megahertz must be below -170 decibels-carrier.

General Information: This requirement is related to harmonic emissions from the power amplifier, which is nonlinear and thus when fed a signal at frequency f emits not only at f but also at nf , where $n=2, 3, 4$, and so on. For example, when transmitting at 6 megahertz, the requirement states that at 12, 18, 24 and 30 megahertz the output power must be 60 decibels below the fundamental signal and that at 120, 126, 132 megahertz, and so on, the output power must be 170 decibels below the fundamental signal.

General information: A filter bank may be required, such as a bank with channels covering frequency bands 3-5, 5-8, 8-13, 13-21, and 21-30 megahertz.

General information: The 170 decibels suppression requirement in the frequency bands of 116-150 megahertz, 225-400 megahertz, 1218-1400 megahertz, and 3700-4200 megahertz arises from the presence of an aeronautical communications station located next to the antenna array.

General information: Non-harmonic out-of-band emissions are addressed under the Phase noise and Spurious-free dynamic range requirements.

2.4.10. Phase noise

The single-sideband phase noise in the analog output signal of each channel must be below -90 decibels-carrier per hertz at all frequencies offset by more than 1 hertz from the user-selected carrier-frequency, as measured at the output of the power amplifier with harmonic filter.

2.4.11. Spurious-free dynamic range

Each channel output must have a full-scale single-tone spurious-free dynamic range of at least 90 decibels within the 100 kilohertz-wide frequency band centered at the user-selected carrier-frequency, and at least 70 decibels at all frequencies outside this 100 kilohertz-wide band and within the frequency range of 3 megahertz to 30 megahertz, as measured at the output of the power amplifier with harmonic filter.

General information: It is preferable that the spurious emissions do not combine coherently across channels, so that the spurious-free dynamic range will improve when channels are combined by a phased antenna array.

2.4.12. Group delay variation across channels

The maximum difference in group delay between any pair of channels of the power amplifier with harmonic filter, measured between the input of the power amplifier with harmonic filter and a reference plane at the power amplifier with harmonic filter end of the cables connecting the power amplifier with harmonic filter and the four-way high-power combiner, must be no more than 10 nanoseconds for all frequencies.

2.5. Four-way high-power combiner

2.5.1. Output power

Each of the 64 individual four-way high-power combiners must provide a combined output power of no less than 4 kilowatt continuous wave at all carrier frequencies under all load conditions presented by all elements of the antenna array (including full reflection), as measured at a reference plane at the four-way high-power combiner end of the cables connecting the four-way high-power combiners to the antennas. This requirement refers to forward power (power with a Poynting vector flowing from the four-way high-power combiners towards the antenna array) at the fundamental frequency.

2.5.2. Combiner balance

Each four-way high-power combiner must have an amplitude balance of less than 0.25 dB and a phase balance of less than +/- 5 degrees across its 4 channels.

3. Transmitter physical requirements

3.1. Shelter

3.1.1. Sheltered components

The waveform generator, digital up-converter, digital-to-analog converter, and high-power amplifier must reside in a transmit equipment shelter to provide protection from the weather.

General information: Multiple shelter units may be needed to meet maximum shelter size constraints.

3.1.2. Location

The transmit equipment shelter must be located at a site in the Canadian Northwest Territories as given in Annex D.

3.1.3. Dimensions

The transmit shelters must each fit within a 20-foot long by 8-foot wide by 8.5-foot high envelope and weigh no more than 20,000 pounds without the waveform generator and power amplifier modules installed.

General information: The above sizes conform to a standard-height 20-foot ISO shipping container.

General information: Final rack mounting of electronic equipment may occur after the transmit shelter has been placed in its final location.

3.1.4. Lifting

The transmit shelters must each be suitable for overhead lift using a crane or side lift using a forklift.

3.1.5. Placement

The transmit shelters must each be positioned on a wooden block foundation that sits on a Government-furnished gravel pad.

3.2. Antenna array

3.2.1. Location

The transmit antenna array must be located at a site in the Canadian Northwest Territories as given in Annex D.

3.2.2. Dimensions and spacing of antenna elements

The transmit antenna array must consist of an 8-by-8 square grid array of monopole antennas. Each monopole must be 9 meters tall and have a feed height of one meter measured from the ground. The monopole must be constructed from two separate metal pieces, one is 1 meter tall and the second is 8 meters tall. The two metal pieces must be connected by inserting a short section of non-brittle dielectric material. The monopole must have a diameter of 3 inches and must be positioned to have a spacing of 8 meters, measured between the center point of the bases, from the other monopoles in the surrounding rows and columns of the grid with a tolerance of +/- 1 centimeter. Each monopole must be vertically level (plumb) and have 32 ground radial wires of 18 American Wire Gauge and 9 meters length. The ends of the radials must be secured to the ground with metal ground staples.

3.2.3. Input transformer

Each transmit antenna element must have at its input an impedance transformer. The transformer must have an impedance transformation ratio of 50-ohm to 200-ohm. The 200-ohm port is connected between the monopole and the ground radials at the feed height. The transformer must be able to handle an input power of no less than 4 kilowatts continuous wave.

3.2.4. Transmission line

The transmit transmission lines connecting the four-way high-power combiners to the transmit antenna array must have a nominal length of 300 meters and a one-way attenuation of no more than 3 decibels at 30 megahertz. The time delay variation between any two of the transmission lines of all 64 channels must be less than +/- 0.1 nanoseconds. All transmit cables must have male connectors with a suitable power handling specification and have hexagonal nuts on both ends to facilitate use of a torque wrench. The transmit cable must be connected to the 50-ohm port of the input transformer.

3.2.5. Lightning protection

Each transmit transmission line must incorporate a lightning arrestor to protect the system from lightning strikes.

3.3. Environmental

3.3.1. Outdoor operating temperature range

The transmit shelters and antenna array must be capable of operating in ambient outdoor temperatures between -50 degrees Celsius and +30 degrees Celsius.

General information: The shelters can be heated and/or air conditioned to allow sheltered equipment to operate over a narrower temperature range.

3.3.2. Indoor storage temperature range

In the event of power interruptions and loss of heating, the transmit sheltered equipment must be able to survive in an unpowered state down to a temperature of -40 degrees Celsius.

General information: Coolant for any liquid-cooled equipment must have anti-freeze properties to -40 degrees Celsius.

3.3.3. Wind resistance

The transmit shelters and antenna array must be capable of operating in winds up to 100 kilometers per hour.

3.3.4. Ice resistance

The transmit shelters and antenna array must be capable of operating with ice accumulation of up to 10 centimeters.

3.3.5. Snow resistance

The transmit shelters and antenna array must be capable of operating with snow accumulation of up to 100 centimeters.

3.3.6. Insect resistance

All air ducts for the transmit shelters must be screened at a resolution of no coarser than 0.25 centimeter to avoid entry of insects.

3.3.7. Bullet resistance

The transmit shelters must be able to withstand entry of bullets from a 7.62 millimeter caliber rifle with a bullet velocity of 800 meters per second.

General information: Bullet holes have been observed in previous experience.

3.3.8. Entry resistance

All transmit shelter doors must be a high-security type, inward-opening, with no external moving parts (rotating door handles, padlocks, and so on).

General information: The outside of the shelter doors could have a deadbolt keyhole and a fixed (non-rotating) handle, which would satisfy this requirement.

3.4. Power

General information: Preliminary estimates indicate that a system power draw of less than 770 kilovolt-amps will be required, however this is dependent on the proposed system architecture and will be revised during the design phase. The system may also draw a relatively small amount of power between operational periods in order to keep sheltered equipment minimally heated.

3.4.1. Connections

The transmit system must connect using fixed wiring to a Government-furnished outdoor transformer and Government-furnished power cables.

General information: The Government-furnished transformer output will be 120/208 volts wye.

General information: System components may use single-phase power at either 120 volts line-neutral or 208 volts line-line and must be fused properly according to their connection (whether line-neutral or line-line).

3.4.2. Breaker panels

The transmit shelters must have internal wall-mounted electrical circuit breaker panels from which power is distributed to all equipment and fixtures.

3.4.3. Grounding

The transmit system must have a common earthing well, where separate earthing sub-systems are tied together.

3.5. Layout

3.5.1. Doors

The transmit shelters must each have at minimum two personnel doors.

General information: This is for safety, in case one door gets blocked by snow or ice.

3.5.2. Compartments

The transmit shelters must have at least two areas, consisting of one area for the equipment and one area for the operators.

3.5.3. Soundproofing

The equipment and operator areas must be separated by a soundproof wall and door. The operator area must conform with the steady-state noise requirements for personnel-occupied areas defined in the MIL-STD-1474E Noise Limits standard.

General information: MIL-STD-1474E is a publicly available document.

3.5.4. Operator area

The operator area must have two operator console positions, each with a portable computer that can be removed between operational periods.

3.5.5. Emergency accommodations

The operator area must have sufficient floor space such that 2 people can lay out sleeping mats if stranded due to weather.

3.5.6. Tools storage

The equipment area must have storage for typical tools for expected repairable items.

3.5.7. Spares storage

The equipment area must have storage space equivalent to 12.5 percent of sheltered equipment.

3.6. Patch Panel

3.6.1. Number of jacks

The transmit shelter must have patch panel(s) with a total of 64 jacks, for all transmission cable runs to the elements of the antenna array.

3.6.2. Location

The patch panel should be in the transmit shelter but can comprise weatherized standalone unit(s) outside the shelter if there is insufficient space in the shelters.

General information: The intent of the patch panel is to provide an intermediate junction point between the sheltered equipment and the outdoor antennas to facilitate antenna testing and troubleshooting.

3.6.3. Patch panel jack type

All patch panel jacks on the antenna side of the panels must have female connectors with a suitable power handling specification. Jacks on the electronics side of the panels are at the discretion of the Contractor.

3.6.4. Patch panel jack spacing

All patch panel jacks must be spaced by at least 10 centimeters to accommodate connection of cables with gloved hands.

3.6.5. Patch panel weather protection

The patch panel must be protected from weather, such as wind, ice, and snow, by a removable weather guard.

3.7. Radiation safety

3.7.1. Radiation hazard compliance

The operator area inside transmit shelter must meet the H129-48/2015E-PDF Safety Code 6 guidelines from Health Canada regarding radiation safety during operations.

General information: H129-48/2015E-PDF is a publicly available document.

3.7.2. Emergency stop button

The transmit shelter must have an emergency "Stop Radiating" push button, that must stop radiation within 1 second of being pressed.

4. Receiver functional requirements

4.1. Functional components

4.1.1. Government-furnished receiver

The system must interface with, operate with, and record data using, a 1024-channel Government-furnished receiver.

General information: The Government-furnished receiver is a D-TA System 23. The receiver has a front end with 1024 channels of analog filtering and low-noise amplification, followed by an analog-to-digital converter with 1024 channels, a digital down-converter with 1024 channels, a recorder, and an operator console. The receiver has a low-power transmitter and transmit antenna that periodically transmits a calibration signal to perform a phase and amplitude calibration of the 1024-element receive antenna array. The receiver has a Jackson Labs LN Rubidium Global Positioning System antenna and receiver.

4.1.2. Antenna array

The system must have a receive antenna array with 1024 elements, where each antenna of the array is connected to one channel of the Government-furnished receiver by means of one coaxial transmission line.

5. Receiver signal requirements

General information: There are no receiver signal requirements for the Contractor. Signal requirements are encapsulated in the Government-furnished receiver.

6. Receiver physical requirements

6.1. Shelter

6.1.1. Sheltered components

The Government-furnished receiver must reside in a single receive equipment shelter to provide protection from the weather. Cable connections to the Government-furnished receiver must be fulfilled through a two-stage arrangement. The first stage is done through a separate external patch panel to which the 1024 coaxial cables from the antenna array elements are connected. The second stage is done through intermediate 1024 cables connecting the patch panel to the Government-furnished receiver inside the shelter.

General information: The Government-furnished receiver will occupy the space of four standard 38-rack unit 19-inch racks of 30-inch maximum depth (152 rack units total). The receive shelter and equipment racks are not Government-furnished.

6.1.2. Location

The receive equipment shelter must be located at a site in the Canadian Northwest Territories as given in Annex D.

6.1.3. Dimensions

The receive shelter must fit within a 20-foot long by 8-foot wide by 8.5-foot high envelope and weigh no more than 20,000 pounds without the electronics installed.

General information: The above sizes conform to a standard-height 20-foot ISO shipping container.

General information: Final rack mounting of electronic equipment may occur after the receive shelter has been placed in its final location.

6.1.4. Lifting

The receive shelter must be suitable for overhead lift using a crane or side lift using a forklift.

6.1.5. Placement

The receive shelter must be positioned on a wooden block foundation that sits on a Government-furnished gravel pad.

6.2. Antenna array

6.2.1. Location

The receive antenna array must be located at a site in the Canadian Northwest Territories as given in Annex D.

6.2.2. Dimensions and spacing of antenna elements

The receive antenna array must consist of a 32-by-32 square grid array of monopole antennas. Each monopole must be 6 meters tall and have a feed height of 60 centimeters measured from the ground. The monopole must be constructed from two separate metal pieces, one is 60 centimeters tall and the second is 5.4 meters tall. The two metal pieces must be connected by inserting a short section of non-brittle dielectric material. The monopole must have a diameter of 3 inches and must be positioned to have a spacing of 16 meters, measured between the center point of the bases, from the other monopoles in the surrounding rows and columns of the grid with a tolerance of +/- 1 centimeter. Each monopole must be vertically level (plumb) and have 8 ground radial wires of 18 American Wire Gauge and 6 meters length. The ends of the radials must be secured to the ground with metal ground staples. The monopole must have a 50-ohm port connected between the taller metal piece and the ground wires and must be placed at the feed height.

General information: The transmit and receive arrays intentionally have different element counts, monopole heights, feed heights, monopole spacings, ground radial counts, and ground radial wire lengths.

6.2.3. Transmission line

The receive transmission lines connecting the receive antenna array to the receiver must be no more than 600 meters in length and have a one-way attenuation of no more than 15 decibels at 30 megahertz. All

receive cables must have male N-type connectors with hexagonal nuts on both ends to facilitate use of a torque wrench. The transmission line must be connected to the 50-ohm port of the monopole.

General information: Unlike the transmit array cables, the receive array cables may have different lengths in order to reduce cost.

6.2.4. Lightning protection

Each receive transmission line must incorporate a lightning arrestor and a limiter to protect the system from lightning strikes.

6.3. Environmental

6.3.1. Outdoor operating temperature range

The receive shelter and antenna array must be capable of operating in ambient outdoor temperatures between -50 degrees Celsius and +30 degrees Celsius.

General information: The shelter can be heated and/or air conditioned to allow sheltered equipment to operate over a narrower temperature range.

6.3.2. Indoor storage temperature range

In the event of power interruptions and loss of heating, the receive sheltered equipment must be able to survive in an unpowered state down to a temperature of -40 degrees Celsius.

General information: Coolant for any liquid-cooled equipment must have anti-freeze properties to -40 degrees Celsius.

6.3.3. Wind resistance

The receive shelter and antenna array must be capable of operating in winds up to 100 kilometers per hour.

6.3.4. Ice resistance

The receive shelter and antenna array must be capable of operating with ice accumulation of up to 10 centimeters.

6.3.5. Snow resistance

The receive shelter and antenna array must be capable of operating with snow accumulation of up to 100 centimeters.

6.3.6. Insect resistance

All air ducts for the receive shelter must be screened at a resolution of no coarser than 0.25 centimeter to avoid entry of insects.

6.3.7. Bullet resistance

The receive shelter must be able to withstand entry of bullets from a 7.62 millimeter caliber rifle with a bullet velocity of 800 meters per second.

General information: Bullet holes have been observed in previous experience.

6.3.8. Entry resistance

All receive shelter doors must be a high-security type, inward-opening, with no external moving parts (rotating door handles, padlocks, and so on).

General information: The outside of the shelter doors could have a deadbolt keyhole and a fixed (non-rotating) handle, which would satisfy this requirement.

6.4. Power

6.4.1. Power draw

The power draw of receive system components provided by the Contractor, and not those furnished by the Government, must not exceed 20 kilovolt-amps.

General information: The system may draw a relatively small amount of power between operational periods in order to keep sheltered equipment minimally heated.

General information: The power draw of the Government-furnished receiver equipment will not exceed 40 kilovolt-amps.

6.4.2. Connections

The receive system must interface to a Government-furnished outdoor transformer and Government-furnished power cables.

General information: The Government-furnished transformer output will be 120/208 volts wye.

General information: System components may use single-phase power at either 120 volts line-neutral or 208 volts line-line and must be fused accordingly to protect against overcurrent.

6.4.3. Breaker panels

The receive shelter must have an internal wall-mounted electrical circuit breaker panel from which power is distributed to all equipment and fixtures.

6.4.4. Grounding

The receive system must have a common earthing well, where separate earthing sub-systems are tied together.

6.5. Layout

6.5.1. Doors

The receive shelter must have at minimum two personnel doors.

General information: This is for safety, in case one door gets blocked by snow or ice.

6.5.2. Compartments

The receive shelter must have at least two areas, consisting of one area for the equipment and one area for the operators.

6.5.3. Soundproofing

The equipment and operator areas must be separated by a soundproof wall and door. The operator area must conform with the steady-state noise requirements for personnel-occupied areas defined in the MIL-STD-1474E Noise Limits standard.

General information: MIL-STD-1474E is a publicly available document.

6.5.4. Operator area

The operator area must have two operator console positions, each with a portable computer that can be removed between operational periods.

6.5.5. Emergency accommodations

The operator area must have sufficient floor space such that 2 people can lay out sleeping mats if stranded due to weather.

6.5.6. Tools storage

The equipment area must have storage for typical tools for expected repairable items.

6.5.7. Spares storage

The equipment area must have storage space equivalent to 12.5 percent of sheltered equipment.

6.6. Patch Panel

6.6.1. Number of jacks

The receive shelter must have a standalone patch panel with a total of 1024 jacks, for all transmission cable runs to the elements of the antenna array.

6.6.2. Location

The patch panel must consist of weatherized standalone unit(s) outside the shelter.

General information: The intent of the patch panel is to provide an intermediate junction point between the sheltered receive equipment and the outdoor antennas to facilitate antenna testing and troubleshooting.

6.6.3. Patch panel jack type

All patch panel jacks on the antenna side of the panels must have female N-type connectors. Jacks on the electronics side of the panels are at the discretion of the Contractor.

6.6.4. Patch panel jack spacing

All patch panel jacks must be spaced by at least 10 centimeters to accommodate connection of cables with gloved hands.

6.6.5. Patch panel weather protection

The patch panel must be protected from weather, such as wind, ice, and snow, by a removable weather guard.

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Amd. No. - N° de la modif.

File No. - N° du dossier

125QF. W7714-228152

Buyer ID - Id de l'acheteur

125QF

CCC No./N° CCC - FMS No./N° VME

ANNEX “B”

EVALUATION/ BASIS OF PAYMENT

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ANNEX B

EVALUATION DOCUMENT

Part one: Technical Evaluation

Part two: Financial Evaluation

Part three: Indigenous Participation Evaluation

NOTE Please submit response in separate documentations:

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
W7714-228152/A		125QF
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME

Part One: MANDATORY AND POINT RATED TECHNICAL CRITERIA

1. Mandatory Technical Criteria

A breakdown of the mandatory technical criteria is given in Table 1-1 below.

Table 1-1: Mandatory Technical Criteria

	Mandatory Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	For use by Canada		
			Evaluation of Bidder's Response	Compliant	Not Compliant
M1	<p>Project Technical Approach</p> <p>As part of the Bid, the Bidder must demonstrate how the goods to be delivered will be compliant with the Statement of Requirements (SOR) in Appendix A of Annex A - Statement of Work (SOW). This demonstration must consist of responses to each individual requirement in the SOR, where each response must demonstrate to Canada, in its sole discretion, that the Bidder understands the corresponding requirement and must explain how the delivered goods will comply with that requirement.</p> <p>In addition, the Project Technical Approach must provide the following information:</p> <ul style="list-style-type: none"> a) A Design concept for the delivered goods, b) An analysis of the approximate power requirements of the delivered goods, and c) Potential shelter layouts for the delivered transmit and receive shelters. 				
M2	<p>Corporate Experience</p> <p>The Bidder, or partner(s)/subcontractor(s), referred hereinafter as the Bidding Team, must have completed, within ten (10) years prior to the closing date of this solicitation period, at least three (3) projects, as the prime Contractor, in radiofrequency transmission or reception, of similar complexity to the scope detailed in the Annex A - Statement of Work (SOW), of which two (2) must have a minimum value of two (2) million Canadian dollars excluding applicable Taxes. This requirement may be met through a combination of experience by the</p>				

	Mandatory Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	For use by Canada		
			Evaluation of Bidder's Response	Compliant	Not Compliant
	<p>Bidder, or partner(s)/subcontractor(s).</p> <p>The Bidder must demonstrate the required experience by submitting at minimum the following information for each project:</p> <ul style="list-style-type: none"> a) Project title, b) Organization for which the work was completed, c) Project start and end dates, d) Outline of the Bidding Team's role within the project and work completed, e) Details of the radiofrequency work and explanation on how that work relates to the SOW, f) Value of each project, and g) A reference for each project who can confirm and validate the information provided. <p>For each reference provided, the Bidder must provide valid contact information so that Canada may, at its sole discretion, contact the reference to confirm the information provided is factual. The contact information must include the name and address of the company, Department or Agency to whom the service was provided and the name, title, and telephone number of a contact within the organization that can verify the information.</p>				
M3	Corporate Organizational Structure	<p>The Bidder's proposal must identify the proposed team that will complete the work identified in Annex A - Statement of Work (SOW). The proposed team must be comprised of at least one (1) Project Manager, with a minimum of seven (7) years of project management experience, one (1) Systems Engineering Lead, with a minimum of ten (10) years of engineering experience in the field of radiofrequency system engineering, and one</p>			

	Mandatory Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	For use by Canada		
			Evaluation of Bidder's Response	Compliant	Not Compliant
	<p>(1) Systems Engineer, with a minimum of five (5) years of engineering experience in the field of radiofrequency system engineering.</p> <p>As a minimum, the following information must be provided for each proposed team member:</p> <ul style="list-style-type: none"> a) Name and title, b) Title, role, and responsibility for the work to be completed in the SOW, c) Role and responsibility within the corporate organizational structure, d) Education background, and e) Work experience demonstrating how the individual's experience relates to the work to be completed in the SOW. 				
M4	<p>Project Management Documentation</p> <p>The Bidder must submit a Project Management Plan and a Risk Management Plan that outlines its approach and methodology to complete the work identified in Annex A - Statement of Work (SOW). The Project Management Documentation must include:</p> <ul style="list-style-type: none"> a) Team organization, responsibilities, and communication approach, b) Management approach in planning, integrating, monitoring, and controlling project, c) Management of Task Authorizations, and d) Compliance verification and reporting, and e) Responsibility Assignment Matrix (RAM) that demonstrates areas of responsibility among members of the Bidder's team. <p>The team organization approach must demonstrate a method for effective performance and administration of</p>				

	Mandatory Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	For use by Canada		
			Evaluation of Bidder's Response	Compliant	Not Compliant
	<p>the Work with little or no potential for disruption in schedule and cost.</p> <p>The Bidder must also provide a detailed schedule which shows all elements of Work to be performed. The schedule must include information on critical path, resources, network activity and schedule contingency for each task. The Bidder must thoroughly identify potential risks in performance of the Work, their evolution throughout the Contract period, and provide risk mitigation strategies that are sound and can be reasonably successfully implemented.</p> <p>The Project Management Documentation must include a comprehensive plan on how Task Authorizations will be managed. Detailed contingency plans which include the process for adding additional surge capacity must be identified.</p> <p>The proposed approach must also ensure that Canada will have full transparency and timely access to the Work throughout the Contract for participation in, or witnessing of system and sub-system testing, and the verification of the Contractor's compliance to elements of the Statement of Requirements (SOR).</p>				
M5	Task Authorization The Bidder must propose at least one (1) resource for each Resource Category in Table 1-2 below for the Task Authorization component of Annex A - Statement of Work (SOW). The Bidder must demonstrate, to the satisfaction of Canada, that all proposed personnel meet the minimum mandatory education, or knowledge gained through experience, and the minimum mandatory experience.				

Table 1-2: Resource Category - Task Authorization

Resource Category	Mandatory Education or Knowledge Gained Through Experience	Experience	For use by Canada	
			Compliant	Not Compliant
Project Manager	<ul style="list-style-type: none"> Certificate, diploma, or degree in engineering, physics, science, mathematics, or project management field, from a recognized Canadian post-secondary institution or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the Canadian Information Centre for International Credentials (CICIC). <p>OR</p> <ul style="list-style-type: none"> Seven (7) years of experience in the past ten (10) years working as a project management specialist. 	<ul style="list-style-type: none"> Minimum of seven (7) years of project management experience in the past ten (10) years on projects of similar scope and complexity. Similar scope and complexity refer to Defence and/or Security research and development Contracts over one (1) million dollars. 		
Senior Systems Engineer	<ul style="list-style-type: none"> Undergraduate degree in a program specializing in the engineering, physics, science, or mathematics field, from a recognized Canadian University or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. <p>OR</p>	<ul style="list-style-type: none"> Minimum of six (6) years of system engineering experience in the past ten (10) years in radiofrequency transmission and/or reception. <p>AND</p> <ul style="list-style-type: none"> Minimum of three (3) years of scientific or engineering experience in the past ten (10) years in the integration and development of radiofrequency transmission and/or reception platforms. 		

Resource Category	Mandatory Education or Knowledge Gained Through Experience	Experience	For use by Canada	
			Compliant	Not Compliant
	<ul style="list-style-type: none"> Six (6) years of experience in the past ten (10) years working as a systems engineer. 			
Systems Engineer	<ul style="list-style-type: none"> Undergraduate degree in a program specializing in the engineering, physics, science, or mathematics field, from a recognized Canadian University or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. <p>OR</p> <ul style="list-style-type: none"> Four (4) years of experience in the past ten (10) years working as a systems engineer. 	<ul style="list-style-type: none"> Minimum of four (4) years of system engineering experience in the past ten (10) years in radiofrequency transmission and/or reception. <p>AND</p> <ul style="list-style-type: none"> Minimum of three (3) years of scientific or engineering experience in the past ten (10) years in the integration and development of radiofrequency transmission and/or reception platforms. 		
Senior Software Engineer	<ul style="list-style-type: none"> Certificate, diploma, or degree in the computer science, engineering, physics, science, or mathematics field, from a recognized Canadian post-secondary institution or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. <p>OR</p> <ul style="list-style-type: none"> Six (6) years of experience in the past ten (10) years working as a software engineer. 	<ul style="list-style-type: none"> Minimum of six (6) years of application software engineering experience in the past ten (10) years. <p>AND</p> <ul style="list-style-type: none"> Minimum of three (3) years of experience developing software applications in the past ten (10) years for radiofrequency transmission platforms. 		

Resource Category	Mandatory Education or Knowledge Gained Through Experience	Experience	For use by Canada	
			Compliant	Not Compliant
Software Engineer	<ul style="list-style-type: none"> Certificate, diploma, or degree in the computer science, engineering, physics, science, or mathematics field, from a recognized Canadian post-secondary institution or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. <p>OR</p> <ul style="list-style-type: none"> Four (4) years of experience in the past ten (10) years working as a software engineer. 	<ul style="list-style-type: none"> Minimum of four (4) years of application software engineering experience in the past ten (10) years. <p>AND</p> <ul style="list-style-type: none"> Minimum of three (3) years of experience developing digital signal processing or radiofrequency transmission software applications in the past ten (10) years. 		
Senior Hardware Engineer	<ul style="list-style-type: none"> Undergraduate degree in an engineering program, specializing in the electronic, electrical, microwave, or mechanical field, from a recognized Canadian University or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. <p>OR</p> <ul style="list-style-type: none"> Six (6) years of experience in the past ten (10) years working as a hardware engineer. 	<ul style="list-style-type: none"> Minimum of six (6) years of electronics, and/or microwave engineering experience in the past ten (10) years. <p>AND</p> <ul style="list-style-type: none"> Minimum of three (3) years of experience developing complex signal processing circuits and applications in the past ten (10) years. 		
Hardware Engineer	<ul style="list-style-type: none"> Undergraduate degree in an engineering program, specializing in the electronic, 	<ul style="list-style-type: none"> Minimum of four (4) years of electronic, and/or microwave, engineering experience in the past ten (10) years. 		

Resource Category	Mandatory Education or Knowledge Gained Through Experience	Experience	For use by Canada	
			Compliant	Not Compliant
	electrical, microwave, or mechanical field, from a recognized Canadian University or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. OR • Four (4) years of experience in the past ten (10) years working as a hardware engineer.	AND • Minimum of two (2) years of hardware design, development, and testing of radiofrequency transmission systems in the past ten (10) years.		
Technologist	• Certificate, diploma, or degree in the electronic, microwave or mechanical discipline from a post-secondary Canadian institution or an acceptable equivalent from a foreign institution, as determined by one of the agencies referred by the CICIC. OR • Six (6) years of experience in the past ten (10) years working as an electronic, microwave or mechanical technologist.	• Minimum of six (6) years of experience as an electronic, microwave, and/or mechanical technologist in the past ten (10) years. AND • Minimum of three (3) years of experience as a hardware technologist in the past ten (10) years.		
Assembler		• Minimum of three (3) years of experience as an assembler or fabricator in the past ten (10) years.		

2. Point Rated Technical Criteria

A breakdown of the point rated technical criteria is given in Table 2-1 below. The Bid must meet the minimum allowable score for each criterion as defined in Table 2-2 to be selected.

Table 2-1: Point Rated Technical Criteria

	Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
				Evaluation of Bidder's Response	Points Awarded
P1	Project Technical Approach The Project Technical Approach described in M1 will be further evaluated as follows: 1. Initial design concept		<p>0 points – Bidder does not provide an end-to-end view in the form of a list or an annotated block diagram, nor an initial equipment selection that complies with all mandatory requirements within Annex A - Statement of Work (SOW).</p> <p>5 points – Bidder provides an end-to-end view in the form of a list or an annotated block diagram in a way that complies with all mandatory requirements within Annex A - SOW.</p> <p>10 points – Bidder provides an end-to-end view in the form of a list or an annotated block diagram as well as a complete end-to-end identification of initial equipment selection, both of which are in a way that complies with all mandatory requirements within Annex A - SOW.</p> <p>20 points – Bidder provides an end-to-end view in the form of a list or an annotated block diagram as well as a complete end-to-end identification of initial equipment</p>		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
2. Power requirements		selection, and identifies how the proposed equipment will, at a minimum, comply with all mandatory requirements within Annex A - SOW.		
		0 points – Bidder does not provide evidence of power requirements.		
		3 points – Bidder provides the power requirements of some, but not all, equipment.		
		5 points – Bidder provides the power requirement of all equipment.		
3. Shelter layout		0 points – Bidder does not provide any layout options.		
		3 points – Bidder provides one layout option with supporting rationale.		
		5 points – Bidder also provides evidence that shelter layout proposed meets the size and weights constraints described in Annex A - SOW.		
			Total	
			Minimum Mandatory Score: 16	
			Maximum points: 30	
P2 Corporate Experience	The Bidding Team's claimed transmitter projects described in M2 will be further evaluated as follows:			
1. Transmitters		0 points – None of the projects include digital waveform generators, digital-to-analog		

	Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
				Evaluation of Bidder's Response	Points Awarded
			converters, or high-power amplifiers. 10 points – One (1) project that includes digital waveform generators, digital-to-analog converters, or high-power amplifiers. 20 points – Two (2) projects that each include digital waveform generators, digital-to-analog converters, or high-power amplifiers. 30 points – At least three (3) projects that each include digital waveform generators, digital-to-analog converters, or high-power amplifiers.		
				Total Minimum Mandatory Score: 10 Maximum points: 30	
P3	Corporate Experience The Bidding Team's claimed receiver projects described in M2 will be further evaluated as follows:				
	1. Receivers		0 points – None of the projects include radio receivers, analog-to-digital converters, or data recorders. 5 points – One (1) project that includes radio receivers, analog-to-digital converters, or data recorders.		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
		10 points – Two (2) projects that each include radio receivers, analog-to-digital converters, or data recorders. 15 points – At least three (3) projects that each include radio receivers, analog-to-digital converters, or data recorders.		
			Total Minimum Mandatory Score: 0 Maximum points: 15	
P4				
Corporate Experience The Bidding Team's claimed antenna projects described in M2 will be further evaluated as follows:				
1. Antennas		0 points – None of the projects include antenna construction or installation. 5 points – One (1) project that includes antenna construction or installation. 10 points – At least two (2) projects that each include antenna construction or installation.		
			Total Minimum Mandatory Score: 0 Maximum points: 10	
P5	Corporate Organizational Structure			
The Bidding Team described in M3 will be further evaluated as follows:				
1. The Project Manager has managed a project, within ten (10) years prior to the closing date of this solicitation period, of		0 point – 0 to 999,999 Canadian dollars. 1 point – One (1) million to 1,999,999,999 Canadian dollars.		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
value, excluding applicable Taxes, greater than:		3 points – Two (2) million to 4,999,999.999 Canadian dollars. 5 points – Five (5) million Canadian dollars and above.		
2. The Systems Engineering Lead has led the engineering effort for a radiofrequency transmission or reception project, within ten (10) years prior to the closing date of this solicitation period, of value, excluding applicable Taxes, greater than:		0 point – 0 to 999,999.999 Canadian dollars. 1 point – One (1) million to 1,999,999.999 Canadian dollars. 3 points – Two (2) million to 4,999,999.999 Canadian dollars. 5 points – Five (5) million Canadian dollars and above.		
3. The Systems Engineer has supported the engineering effort for a radiofrequency transmission or reception project, within ten (10) years prior to the closing date of this solicitation period, of value, excluding applicable Taxes, greater than:		0 point – 0 to 999,999.999 Canadian dollars. 1 point – One (1) million to 1,999,999.999 Canadian dollars. 3 points – Two (2) million to 4,999,999.999 Canadian dollars. 5 points – Five (5) million Canadian dollars and above.		
			Total	
			Minimum Mandatory Score: 7	
			Maximum points: 15	
P6	Corporate Organizational Structure - Transmitters			
	The Bidding Team described in M3 will be further evaluated as follows:			
1. The Bidding Team collectively have the		0 points – 0 to 4,999 years.		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
number of years of experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of digital waveform generators (only time from any individual members of the Bidding Team where design, development and module-level testing of digital waveform generators can be considered for the purpose of calculating time under this section).		1 point – 5 to 9.999 years. 3 points – 10 to 14.999 years. 5 points – 15 or more years.		
2. The Bidding Team collectively have the number of years of experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of digital-to-analog converters (only time from any individual members of the Bidding Team where design,		0 points – 0 to 4.999 years. 1 point – 5 to 9.999 years. 3 points – 10 to 14.999 years. 5 points – 15 or more years.		

	Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
				Evaluation of Bidder's Response	Points Awarded
	development and module-level testing of digital-to-analog converters can be considered for the purpose of calculating time under this section).				
	3. The Bidding Team collectively have the number of years of experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of high-power amplifiers (only time from any individual members of the Bidding Team where design, development and module-level testing of high-power amplifiers can be considered for the purpose of calculating time under this section).		0 points – 0 to 4,999 years. 2 points – 5 to 9,999 years. 5 points – 10 to 14,999 years. 10 points – 15 or more years.		
				Total	
				Minimum Mandatory Score: 7	
				Maximum points: 20	
P7	Corporate Organizational Structure - Receivers				
	The Bidding Team described in M3 will be further evaluated as follows:				
	1. The Bidding Team collectively have the number of years of		0 points – 0 to 4,999 years. 1 point – 5 to 9,999 years.		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of radiofrequency receivers (only time from any individual members of the Bidding Team where design, development and module-level testing of radiofrequency receivers can be considered for the purpose of calculating time under this section).		3 points – 10 to 14,999 years. 5 points – 15 or more years.		
2. The Bidding Team collectively have the number of years of experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of analog-to-digital converters (only time from any individual members of the Bidding Team where design, development and module-level testing of analog-to-digital		0 points – 0 to 4,999 years. 1 point – 5 to 9,999 years. 3 points – 10 to 14,999 years. 5 points – 15 or more years.		

	Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
				Evaluation of Bidder's Response	Points Awarded
	converters can be considered for the purpose of calculating time under this section).				
	3. The Bidding Team collectively have the number of years of experience listed, acquired within the ten (10) years prior to the closing date of this solicitation period, in the design, development, and module-level testing of data recorders (only time from any individual members of the Bidding Team where design, development and module-level testing of data recorders can be considered for the purpose of calculating time under this section).		0 points – 0 to 4.999 years. 2 points – 5 to 9.999 years. 5 points – 10 to 14.999 years. 10 points – 15 or more years.		
				Total	
				Minimum Mandatory Score: 0 Maximum points: 15	
P8 Project Management Documentation					
The Project Management Documentation described in M4 will be further evaluation as follows:					
	1. Project management plan		0 points – Bidder does not propose a project organizational structure chart and identifies a list of deliverables to be produced consistent with Annex A - Statement of Work (SOW).		

	Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
				Evaluation of Bidder's Response	Points Awarded
			5 points – Bidder proposes a project organizational structure chart and identifies a list of deliverables to be produced consistent with Annex A - Statement of Work (SOW). 10 points – In addition to the above, the Bidder also proposes progress reviews and describes configuration management.		
	2. Risk management plan		0 points – Bidder's proposal does not identify key schedule, technical, and cost risks. 5 points – Bidder's proposal identifies key schedule, technical, and cost risks. 10 points – In addition to the above, the Bidder has also identified five (5) potential largest project risk and has produced a plan to manage these risks.		
				Total	
				Minimum Mandatory Score: 10	
				Maximum points: 20	
P9	Open Radiofrequency Architectures				
	The Project Technical Approach described in M1 will be further evaluated as follows:				
	1. Open architectures		0 points –Bidder does not propose a solution employing the elements of an open radiofrequency nor hardware architecture nor an open software architecture.		

Point Rated Criteria	Bidder's Response (Include proposal reference with page and paragraph numbers)	Rating Method	For use by Canada	
			Evaluation of Bidder's Response	Points Awarded
		10 points – The Bidder proposes a solution employing open hardware and software architectures and provides a fully documented Application Programming Interface (API).		
Minimum Mandatory Score: 0 Maximum points: 10			Total	

Table 2-2: Point Rated Technical Score

Point Rated Criteria		Maximum Score Available	Minimum Allowable Score	Bid Result		
				Achieved Score	Compliant	Not Compliant
P1	Initial design concept	20	10			
	Power requirements	5	3			
	Shelter layout	5	3			
P2	Transmitters	30	10			
P3	Receivers	15	0			
P4	Antennas	10	0			
P5	Project Manager	5	3			
	Systems Engineering Lead	5	3			
	Systems Engineer	5	1			
P6	Waveform generators	5	1			
	Digital-to-analog converters	5	1			
	High-power amplifiers	10	5			
P7	Radiofrequency receivers	5	0			
	Analog-to-digital converters	5	0			
	Data recorders	10	0			
P8	Project management plan	10	5			
	Risk management plan	10	5			
P9	Open architectures	10	0			
Total:		170	50			

NOTE Please submit response in separate documentations:

Part Two: Financial Bid Evaluation

Bidders must submit their financial Bid in accordance with the following:

- (a) A firm lot price for the Core component.
- (b) Firm hourly Labour Rates for the Task Authorization component.
- (c) A firm unit price for individual functional hardware components, for the Task Authorization component.
- (d) The total amount of Applicable Taxes is to be shown separately, if applicable.
- (e) The information should be provided in accordance with the Financial Bid Evaluation Matrix below.
- (f) For Canadian-based Bidders, prices must be in Canadian funds, Applicable Taxes excluded, and Canadian customs duties and excise taxes included.

For foreign-based Bidders, prices must be in Canadian funds, Applicable Taxes, Canadian customs duties and excise taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based Bidders.

For the purpose of the Bid solicitation, Bidders with an address in Canada are considered Canadian-based Bidders and Bidders with an address outside of Canada are considered foreign-based Bidders.

1.1 Item 1 - Core component

A firm lot price for the Work defined in Annex A - Statement of Work, excluding section 6 - Task Authorization Work. The total amount of Applicable Tax is to be shown separately, if applicable. Bidders are requested to detail the following elements of the Work, as applicable:

- (a) Labour: For each individual and/or labour category to be assigned to the Work, indicate the hourly rate, inclusive of overhead and profit, and the estimated number of hours.
- (b) Equipment: Specify each item required to compete the Work and provide the pricing basis of each one, Canadian customs duty and excise taxes included, as applicable. The items will be deliverable to Canada upon completion of the Contract.
- (c) Materials and Supplies: Identify each category of material and supplies required to complete the Work and provide the pricing basis.
- (d) Travel and Living Expenses: Indicate the number of trips and the number of days for each trip, the cost, destination, and purpose of each journey, together with the basis of these costs which may not exceed the limits of the Treasury Board (TB) Travel Directive. With respect to the TB Directive, only the meal, private vehicle and incidental allowances in Appendices B, C, and D of the Directive, <https://www.njc-cnm.gc.ca/directive/d10/en>, and the other provisions of the Directive referring to “travellers”, rather than those referring to “employees”, are applicable. The Treasury Board Secretariat’s Special Travel Authorities, <https://www.canada.ca/en/treasury-board-secretariat/services/travel-relocation/travel->

[government-business.html](#), also apply.

- (e) Subcontracts: Identify any proposed subcontractor and provide for each one the same price breakdown information as contained in this article.
- (f) Other Direct Charges: Identify any other direct charges anticipated, such as long-distance communications and rentals, and provide the pricing basis.
- (g) Applicable Taxes: Identify any Applicable Taxes separately.
- (h) Canadian Content: Identify the costs of the proposal used to support calculations of offering 80% Canadian goods and/or services.

Bidders must propose milestone amounts in accordance with Table 2-1 below.

Table 2-1: Proposed Milestones (can be negotiated at Contract award).

Milestone Number	Milestone Description and Required Deliverables	Percent %	Cumulative Percent
1	Kickoff meeting, with initial version of project management documents: 5.2.2 – Project Management Plan 5.2.4 – Work Breakdown Structure 5.2.5 – Risk Management Plan 5.2.6 – Master Project Schedule 5.2.7 – Systems Engineering Plan	5	5
2	Initial design review, with initial version of system design documents: 5.4.1 – System Design Document 5.4.2 – Traceability Matrix 5.4.3 – System Power Requirements 5.4.4 – Hierarchical Equipment List 5.4.5 – Equipment Specifications and Drawings	5	10
3	Preliminary design review, with updated version of system design documents: 5.4.1 – System Design Document 5.4.2 – Traceability Matrix 5.4.3 – System Power Requirements 5.4.4 – Hierarchical Equipment List 5.4.5 – Equipment Specifications and Drawings	10	20
4	Critical design review, with final version of system design documents: 5.4.1 – System Design Document 5.4.2 – Traceability Matrix 5.4.3 – System Power Requirements 5.4.4 – Hierarchical Equipment List 5.4.5 – Equipment Specifications and Drawings	15	35
5	Factory acceptance test plan: 5.5.1 – FAT Procedure	2.5	37.5

Milestone Number	Milestone Description and Required Deliverables	Percent %	Cumulative Percent
	5.5.2 – FAT Traceability Matrix		
6	Factory acceptance test readiness: 5.5.4 – FAT Readiness Review Report	2.5	40
7	Factory acceptance test completion: 5.5.6 – FAT Functional Configuration Audit	20	60
8	Local field test plan: 5.6.2 – Local Field Test Procedure 5.6.3 – Local Field Test Traceability Matrix	2.5	62.5
9	Local field test completion: 5.6.5 – Local Field Test Functional Configuration Audit	2.5	65
10	Site installation plan: 5.7.1 – Site Installation Drawings	2.5	67.5
11	Site installation completion: 5.7.4 – Install Systems at Sites	2.5	70
12	Site acceptance test plan: 5.8.1 – SAT Procedure 5.8.2 – SAT Traceability Matrix	2.5	72.5
13	Site acceptance test readiness: 5.8.4 – SAT Physical Configuration Audit Report 5.8.5 – SAT Readiness Review Report	2.5	75
14	Site acceptance test completion: 5.8.7 – SAT Functional Configuration Audit	10	85
15	Manuals and spares: 5.9.1 – Operation Procedure Manual 5.9.2 – System User Manual 5.9.3 a) – System Spare Parts	5	90
16	Holdback	10	100

1.2 Item 2 - Task Authorization component

1.1.1 Labour: The Bidder is requested to provide firm hourly rates for each category of resources for each year of the Contract period, including three (3) option years.

The total extended cost of labour will be calculated by taking the average hourly rate proposed for the Contract and option periods, multiplied by an annual estimated level of effort in hours as defined in Table 2-2 below. The estimated level of effort specified is only an approximation of requirements given in good faith and is provided for financial Bid evaluation purposes only. It does not represent a commitment by Canada.

Table 2-2: Task Authorization (Labour rates)

A Labour Category	Hourly Rate				F Option Year 3	G Average (B+C+D+E+F) ÷5	H Estimated Annual Effort in Hours	I Total Cost by Resource (G x H)
	B Contract Year 1	C Contract Year 2	D Option Year 1	E Option Year 2				
Project Manager							50	
Senior Systems Engineer							75	
Systems Engineer							225	
Senior Software Engineer							50	
Software Engineer							175	
Senior Hardware Engineer							75	
Hardware Engineer							200	
Technologist							650	
Assembler							50	

1.1.2 Additional hardware: The Bidder is requested to quote a firm unit price for each individual functional hardware component, listed in Section 5.9.3 of Annex A - Statement of Work, anticipated to be procured under the Task Authorization component.

For evaluation purposes, the unit price should be scaled to correspond to the cost per system channel. For example, if the proposed waveform generator component is a four (4) channel unit, then the unit price should be divided by four (4) to represent the price per channel. The estimated quantity is only an approximation of requirements given in good faith and is provided for financial Bid evaluation purposes only. It does not represent a commitment by Canada.

Table 2-3: Task Authorization (Hardware cost)

A Functional Component	Unit Price			E Average (B+C+D) ÷3	F Estimated Annual Quantity (channels)	G Total Price by Functional Component (E x F)
	B Option Year 1	C Option Year 2	D Option Year 3			
Waveform generator					16	
Digital up-converter					16	
Digital-to-analog converter					16	
High-power amplifier (with harmonic filtering)					16	
Four-way high-power combiner					4	
Antenna					4	
Transmission line					4	

2. Evaluation of Price

For evaluation purposes only, the price of the Bid will be determined as follows:

Table 2-4: Financial Bid Evaluation Matrix

Item	Description	Qty	Firm Price
1	<u>POTHR System</u> One (1) POTHR system as defined in Annex A - Statement of Work (SOW) and its appendices.	1	\$
2	<u>Program Management, Delivery & Execution</u> Manage, deliver, and execute the Work for all aspects related to the POTHR project as defined in Annex A - Statement of Work (SOW) and its appendices.	LOT	\$
3	<u>Manuals, Documentation & Publications</u> Generate and deliver Manuals and Documentation as defined in Annex A - Statement of Work (SOW) and its appendices.	LOT	\$
4	<u>Tools and Test Equipment</u> The provision of all tools and test equipment in support of the POTHR requirement as defined in Annex A - Statement of Work (SOW) and its appendices.	LOT	\$
Subtotal Core Component			\$
5	<u>Task Authorization (Labour Rates)</u> Labour rates for the Task Authorization work as defined in Table 2-2.	LOT	\$
6	<u>Task Authorization (Hardware)</u> Firm unit price for each individual functional hardware component as defined in Table 2-3.	LOT	\$
Subtotal Task Authorization			\$
Total Evaluated Price			\$

NOTE Please submit response in separate documentations:

Part Three: Indigenous Participation Evaluation

See Annex E for all the information required to fill out this evaluation.

Indigenous Participation Plan

Bidders should submit with their bid an Indigenous Participation Plan (IPP) (As per Annex E) that details the extent to which they will support the government’s overall target of 25% of the Total Estimated Contract Value for Goods and/or Services to be sourced from Canadian indigenous firms and delivered to Canada under this contract.

Rating Scale					
If the Bidder commits to Below 5% Target	If the Bidder commits to 5% to 9.99% Target	If the Bidder commits to 10% to 14.99% Target	If the Bidder commits to 15% to 19.99% Target	If the Bidder commits to 20% to 24.99% Target	If the Bidder commits to 25% or above Target
It will be equal to 0% of the total available points	It will be equal to 20% of the total available points	It will be equal to 40% of the total available points	It will be equal to 60% of the total available points	It will be equal to 80% of the total available points	It will be equal to 100% of the total available points
					50

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Buyer ID - Id de l'acheteur
125QF
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ANNEX “C”

SECURITY REQUIREMENTS CHECK LIST

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**SECURITY REQUIREMENT FOR CANADIAN SUPPLIER:
PWGSC FILE No. W7714-228152**

1. The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, issued by the Contract Security Program (CSP), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to CLASSIFIED/PROTECTED information, assets or sensitive site(s) must EACH hold a valid personnel security screening at the level of SECRET, or RELIABILITY STATUS, as required, granted or approved by the CSP, PWGSC.
3. The Contractor personnel requiring access to RESTRICTED CLASSIFIED/PROTECTED information, assets or sensitive site(s) **must be citizens of Australia, Canada, New Zealand, the United Kingdom, or the United States of America, must be permanent residents of Canada** and must EACH hold a valid personnel security screening at the level of SECRET, or RELIABILITY STATUS, as required, granted or approved by the CSP, PWGSC.
4. The Contractor MUST NOT remove any CLASSIFIED/PROTECTED information or assets from the identified site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
5. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP, PWGSC.
6. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Annex ____;
 - (b) *Contract Security Manual* (Latest Edition).

NOTE: There are multiple levels of personnel security screenings associated with this file. In this instance, a Security Classification Guide must be added to the SRCL clarifying these screenings. The Security Classification Guide is normally generated by the organization's project authority and/or security authority.

NOTE: There are multiple levels of release restrictions associated with this file. In this instance, a *Security Guide* should be added to the SRCL clarifying these restrictions. The *Security Guide* is normally generated by the organization's project authority and/or security authority.



SECURITY REQUIREMENTS CHECK LIST (SRCL)

LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND		2. Branch or Directorate / Direction générale ou Direction ADM(DRDC) / Ottawa Research Centre	
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail The procurement is for the implementation of Phase 4 of the DRDC Polar Over-the-Horizon Radar Research efforts. The objective of Phse 4 is to design, build, install and operate a sub-scale radar test bed, both receive and transmit sites.			
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui
6. Indicate the type of access required / Indiquer le type d'accès requis			
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		<input type="checkbox"/> No Non	<input checked="" type="checkbox"/> Yes Oui
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada <input checked="" type="checkbox"/>		NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>		All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>			
Restricted to: / Limité à : <input checked="" type="checkbox"/>		Restricted to: / Limité à : <input type="checkbox"/>	Restricted to: / Limité à : <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays : Releasable 5 eyes (AS, CA, UK, US, NZ) and permanent residents of Canada		Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s) pays :
7. c) Level of information / Niveau d'information			
PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>		NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A PROTÉGÉ A <input type="checkbox"/>
PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>		NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>		NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>		NATO SECRET NATO SECRET <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>
SECRET SECRET <input checked="" type="checkbox"/>		COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET SECRET <input type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>			TOP SECRET TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>			TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>



PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :
9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes
Non Oui
- Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis
- | | | | |
|---|---|--|--|
| <input checked="" type="checkbox"/> RELIABILITY STATUS
COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL
CONFIDENTIEL | <input checked="" type="checkbox"/> SECRET
SECRET | <input type="checkbox"/> TOP SECRET
TRÈS SECRET |
| <input type="checkbox"/> TOP SECRET – SIGINT
TRÈS SECRET – SIGINT | <input type="checkbox"/> NATO CONFIDENTIAL
NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET
NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET
COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS
ACCÈS AUX EMPLACEMENTS | | | |
- Special comments:
Commentaires spéciaux : _____
- NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes
Non Oui
If Yes, will unscreened personnel be escorted? On DND premises, unscreened pers. may only
Dans l'affirmative, le personnel en question sera-t-il escorté? access public/reception zones ☒ No ☐ Yes
Non Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No ☐ Yes
Non Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No ☐ Yes
Non Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes
Non Oui



Government
of Canada

Gouvernement
du Canada

Contract Number / Numéro du contrat

W7714-228152

Security Classification / Classification de sécurité
UNCLASSIFIED

PART C - (continued) / PARTIE C - (suite)

For users completing the form **manually** use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire **manuellement** doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form **online** (via the Internet), the summary chart is automatically populated by your responses to previous questions.

Dans le cas des utilisateurs qui remplissent le formulaire **en ligne** (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET
				CONFIDENTIEL		TRÈS SECRET	NATO DIFFUSION RESTREINTE	NATO CONFIDENTIEL		COSMIC TRÈS SECRET	A	B	C	CONFIDENTIEL		TRÈS SECRET
Information / Assets Renseignements / Biens																
Production																
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?



No
Non



Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?



No
Non



Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme

Name (print) - Nom (en lettres moulées) Davor Mihajlovic	Title - Titre Project Manager	Signature MIHAJLOVIC, DAVOR 470 <small>Digitally signed by MIHAJLOVIC, DAVOR 470 Date: 2023.11.01 14:24:56 -04'00'</small>	
Telephone No. - N° de téléphone 613-769-7865	Facsimile No. - N° de télécopieur N/A	E-mail address - Adresse courriel davor.mihajlovic@forces.gc.ca	Date 1 Nov 2023

14. Organization Security Authority / Responsable de la sécurité de l'organisme

Name (print) - Nom (en lettres moulées) Sasa Medjovic	Title - Titre Senior security analyst	Signature	
Telephone No. - N° de téléphone 613-996-0286	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel sasa.medjovic@forces.gc.ca	Date

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached?
Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?

☐ No / Non ☒ Yes / Oui

16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées) Stephanie Lacroix	Title - Titre a/Procurement Operations Manager	Signature	
Telephone No. - N° de téléphone 581-313-9126	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel Stephanie.lacroix@forces.gc.ca	Date

17. Contracting Security Authority / Autorité contractante en matière de sécurité

Adna Mohamed Contract Security Officer Adna.Mohamed@tpsgc-pwgsc.gc.ca	Title - Titre	Signature	
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date

Solicitation No. - N° de l'invitation

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

W7714-228152

Amd. No. - N° de la modif.

File No. - N° du dossier

125QF. W7714-228152

Buyer ID - Id de l'acheteur

125QF

CCC No./N° CCC - FMS No./N° VME

ANNEX "D"

SECRET LOCATION DOCUMENT

Please review Annex H (One on one meeting schedule) for all information regarding the viewing of this documentation.

Solicitation No. - N° de l'invitation

W7714-228152/A

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

W7714-228152

Amd. No. - N° de la modif.

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125QF. W7714-228152

Buyer ID - Id de l'acheteur

125QF

CCC No./N° CCC - FMS No./N° VME

ANNEX E

INDIGENOUS PARTICIPATION PLAN

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ANNEX E

INDIGENOUS PARTICIPATION CRITERIA Polar Over The Horizon Radar (POTHR)

Interim Indigenous Participation Plan (IPP)

Part 1: General Information

Indigenous Participation Plan (IPP0001)

Canada has made it a priority to advance Reconciliation with Indigenous Peoples and, as part of that effort, to increase Indigenous participation within federal procurement. In keeping with these objectives, this procurement encourages the successful bidder to make Indigenous participation part of the work arising from the contract, by requiring that bidders submit an Indigenous Participation Plan (IPP) as part of their Bid. The IPP should, as much as possible, demonstrate to Canada not only the level of commitments made but also disclose engagement and research activities to support the achievability of the commitments. Bidders should be aware that IPP commitments made as part of their Bid will become deliverables in the resulting contract, subject to regular progress monitoring and reporting (and potentially other measures) to ensure that good faith efforts are being made – during the life of the contract – to achieve IPP commitments.

For more information about how Canada will evaluate submitted IPPs, and for other information related to IPPs in this procurement, see Part 4: Evaluation Procedures and Basis of Selection.

For this requirement, Canada estimates that a sizable portion of the cost of the contract (estimated at ~ 25%) may be directed to Indigenous businesses. For example: The installation of the systems at both the transmit and the receive sites including placement of the system shelters and any associated patch panels on the GFE gravel pads, as well as populating the shelters with the electronic equipment of the systems. This also includes the installation of the elements of the antenna arrays at both transmit and receive sites and laying of the transmission lines and connecting them between the elements of the antenna arrays and the shelters and/or patch panels, in their respective locations. In addition, work based on Task Authorization may be required to prepare the sites prior to system installation. This also may provide opportunity for involving local Indigenous businesses in the project.

Part 2 Relationship

The relationship between the Contractor and the Contracting Authority is supported by several processes aimed at promoting regular, ongoing engagement between the two parties. These processes include Transaction identification and the annual reporting process. Taken together, these and other monitoring measures are aimed at encouraging positive engagement, use of best practices and the successful completion of the Contractor's Obligations in this Contract.

Part 3: Intentionally left blank.

Part 4: Evaluation Procedures and Basis of Selection

Indigenous Participation Plan Criteria (IPP0002)

Bidders must submit an Indigenous Participation Plan (IPP) with their response to this solicitation. Instructions for bidders for the development of an Indigenous Participation Plan are included in Annex E Indigenous Participation Criteria. The IPP should detail how the bidder will integrate the following elements into carrying out the work arising from this contract:

- Indigenous ownership (prime contractor);
- Indigenous ownership (subcontractor(s))
- employment of Indigenous persons by the contractor; and
- training and skills development for Indigenous persons by the contractor;

If the bidder does not submit an IPP, the bidder will automatically be assessed a score of 0 for the IPP component of the evaluation process.

If selected for award of a contract, the commitments contained in the bidder's IPP will be included as a condition of the resulting contract and each criterion of the IPP will become a contractual obligation.

Implementation of the Contractor's IPP will be ensured through close monitoring and may require, for example, that each invoice be accompanied by an IPP Progress Report to demonstrate that contractual obligations are being fulfilled.

Indigenous Participation Plan Criteria (IPP0002.a)

For the purposes of this procurement, to qualify for mandatory or point-rated Indigenous Participation Plan criteria relating to Indigenous-ownership, at the time of award, the business must be:

- an Elder;
- a business owned and/or operated by a Band Council or Tribal Council;
- registered on a Modern Treaty business list or business directory; or
- registered on the Indigenous Business Directory, administered by Indigenous Services Canada.

Basis of Selection - Highest combined rating of Indigenous Participation Plan score, technical score, and price (IPP0005)

1. To be declared responsive, a bid must:
 - a. comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria; and
 - b. obtain the required minimum score for the Indigenous Participation Plan of five (5) points. The rating is performed on a scale of 5 to 20 points overall.
2. Bids not meeting the requirements of Part 1 will be declared non-responsive.
3. The selection will be based on the highest combined rating of total Indigenous Participation Plan (IPP) score, technical score, and price. The ratio will be 20% for the total IPP score, 40% for the technical score and 40% for price.
4. The IPP score will be determined as follows: total number of points obtained ÷ maximum number of points available.
5. The technical score for each responsive bid will be determined as follows: total number of points obtained ÷ maximum number of points available.
6. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price as follows: lowest evaluated price ÷ bid price.
7. The responsive bid with the highest combined rating of total IPP score, total technical score, and pricing score will be recommended for award of a contract. The responsive bid obtaining the highest individual score for the IPP, technical, or financial component may not necessarily be

recommended.

8. In the case that two or more bids achieve the same highest combined score, the bid with the highest IPP score will be recommended for award of a contract.

The table below illustrates an example where three bids have been received and all three have been found responsive. The selection of the contractor is determined by a 20/40/40 ratio of total IPP score, total technical score and pricing score.

Basis of Selection – Highest Combined Rating of Technical Merit, Price and Indigenous Participation

- (a) This basis of selection is defined as the optimal combination of price, technical merit, quality, and the balance of overall benefits to the Crown and the Canadian people as set out in the bid solicitation evaluation criteria. The Bidder with the highest Total Weighted Score will be recommended for contract award.

For each responsive bid, the best value calculation will be determined as follows:

$$\frac{\text{Lowest Compliant bid Price} \times 40}{\text{Bidder's Total Evaluated bid Price}} + \frac{\text{Technical Point Rated Score} \times 40}{\text{Maximum Score Available for bid (100 percent)}} + \frac{\text{Indigenous Participation Point Rated Score} \times 20}{\text{Maximum Score Available for bid (20 points)}} = \text{Total Weighted Score}$$

- (b) When a calculation includes a decimal, calculations will be rounded to the nearest hundredth value.
- Example:
- (i) 7.254 to the nearest hundredth = 7.25
- (ii) 7.255 to the nearest hundredth = 7.26
- (c) Following the completion of the PBCP evaluations in Phase 3, the compliant Bidder with the highest overall Total Weighted Score (Best Value) will be recommended for the award of a contract.
- (d) Please refer to 3.1.1 in this Volume to determine the Total Evaluated bid Price for each Bidder.
- (e) In the case of a tie, the contractor with the lowest Total Estimated Bid price will be recommended for the award of the contract.

Evaluation Example (40-40-20)

Basis of Selection - Highest Combined Rating Technical Merit (40%), Price (40%) and Participation (20%)				Indigenous
		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		92/100	89/100	75/100
Bid Evaluated Price		\$550,000.00	\$500,000.00	\$450,000.00
Calculations	Technical Merit Score	$92/100 \times 40 = 36.8$	$89/100 \times 40 = 35.6$	$75/100 \times 40 = 30$
	Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36$	$45/45 \times 40 = 40.00$
	Indigenous Participation	12/20	13/20	13/20
Combined Rating		81.53	84.60	83.00
Overall Rating		3rd	1st	2nd

Part 6/7: Resulting Contract Clauses

Reporting Indigenous Participation Plan Benefits - General Information (IPP0006)

- The Contractor must, through the life of the contract, maintain and compile records as to the delivery of Indigenous Participation Plan (IPP) Benefits, including but not limited to the following elements:
 - Indigenous ownership (contractor);
 - Indigenous ownership (subcontractor(s));
 - employment of Indigenous persons by the contractor;
 - training and skills development for Indigenous persons by the contractor;

2. As part of the obligation under the General Conditions to keep proper accounts and records, the Contractor must maintain all records related to the delivery of Indigenous Participation Plan Benefits and make them available for audit purposes.
3. An IPP Progress Report must be submitted:
 - as requested by the Contracting Authority;
 - with every invoice; and
 - at project milestonesin accordance with Annex E IPP Progress Report of the Contract, before Canada will release payment.
4. If, for any reason, a bid does not include an IPP, Canada will still expect that records documenting any unanticipated IPP Benefits realized under the contract be provided (as requested by the Contracting Authority / with every invoice / at project milestones)

Statement of Work or Requirement - Indigenous Participation Plan (IPP0007)

The Contractor must perform the work in the manner committed to in the Contractor's Indigenous Participation Plan at Annex E, Indigenous Participation Plan to Annex A, Statement of Work and Appendix A, Statement of Requirement to Annex A.

Part 8

Indigenous Participation Plan Certification (IPP0008)

1. The Contractor has certified within its bid that all information relating to its Indigenous Participation Plan is, to the best of its knowledge, true and accurate.
2. During the period of the contract, should the Contractor become aware of any error or omission made in relation to its Indigenous Participation Plan, it must immediately notify the Contracting Authority, and correct the error or omission. The Contracting Authority will formalize the correction through the issuance of a contract amendment.
3. Should the Contractor make any untrue statement in the Indigenous Participation Plan, or should it become aware of any errors or omissions and not notify the Contracting Authority immediately, Canada may, at its discretion:
 - a. Impose a penalty as seen fit.

- Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

Part 9

Indigenous Participation Plan - Disclosure of information (IPP0009)

- The Contractor agrees that Canada may at any time disclose the Indigenous Participation Plan (IPP) and the IPP Progress Reports to third parties, including to Indigenous communities or their leadership, Indigenous treaty rights-holders or their designated representatives, Parliamentary Committees, and to any independent professional contracted to determine whether the Contractor has met its contractual obligations related to the IPP.
- As the IPP and the IPP Progress Report could contain information regarding subcontractors and suppliers, the Contractor warrants that it has secured from its subcontractors and suppliers consent to such disclosure by Canada and will continue to obtain consent from additional subcontractors and suppliers throughout the period of the contract. The Contractor also warrants that all consent was freely obtained in accordance with all applicable privacy and human rights laws and obligations. The Contractor further agrees that it will have no right to claim against Canada, its employees, agents or servants, in relation to such disclosures of information.
- The Contractor undertakes not to include in the IPP or in the IPP Progress Reports any information that cannot be shared publicly or that could constitute private information under the [Privacy Act](#) (R.S.C., 1985, c. P-21) (e.g., name, home address, personal email, telephone number, social insurance number, driver license number, etc.). However, the Contractor, its subcontractors and its suppliers, must maintain such records for audit purposes in accordance with the General Conditions.

Part 10

Indigenous Participation Plan Deviations (IPP0010)

- If at any time it becomes apparent to the Contractor that it may be unable to fulfill any of its Indigenous Participation Plan (IPP) obligations, the Contractor must inform the Contracting Authority without waiting for the submission of an IPP Progress Report to be required.
- If requested by the Contracting Authority, the Contractor must provide a detailed explanation, within the timeframe specified by the Contracting Authority, regarding any actual or anticipated inability to fulfill any of its IPP obligations.

3. If requested by the Contracting Authority, the Contractor must propose, within the timeframe specified by the Contracting Authority, a written Corrective Action Plan to address the deviation(s). The Corrective Action Plan may involve an amendment to the IPP to provide alternative forms of benefits agreed upon by both Canada and the Contractor.
4. Any amendment to the IPP must be documented through a formal contract amendment, which will only be issued if the Parties agree to modify the IPP. Canada may, in its discretion, refuse to accept modifications to the IPP if, in Canada's opinion, the proposed amendments do not offer similar value and/or quality of benefits.
5. Any reduction in benefits may be considered by Canada as any other failure to meet a contractual obligation.

Part 11

Indigenous Participation Plan - Third-Party Independent Professional (IPP0011)

1. If requested by Canada, the Contractor must engage a third-party independent professional to confirm whether the Contractor has met its contractual obligations regarding the Indigenous Participation Plan (IPP) under the Contract. The third-party independent professional must be approved in advance by the Contracting Authority.
2. If the Contracting Authority has not approved the proposed third-party independent professional, or if the Contractor has not proposed a third-party independent professional within 30 days of Canada's original request, the Contracting Authority will propose up to three third-party independent professionals from which the Contractor must choose.
3. The Contractor must submit the third-party independent professional's written report to the Contracting Authority immediately on receipt of the report, and the Contracting Authority may contact the third-party independent professional directly regarding the report.
4. If the third-party independent professional confirms that the Contractor has substantially met the requirements regarding activities specified in the IPP, Canada agrees to reimburse the Contractor the cost of the third-party independent professional, including any applicable taxes, upon receiving a copy of the invoice paid by the Contractor.
5. If the third-party independent professional confirms that the Contractor has not substantially met the requirements regarding activities specified in the IPP:
 - a. Canada will not reimburse the Contractor any cost of the third-party independent professional;
 - b. the Contractor must, at the discretion of Canada, repay Canada in the amount found to have

been paid in excess by Canada to the Contractor related to IPP activities not performed in accordance with the IPP; and

- c. Canada may retain any amount found to have been paid in excess by Canada, including for activities not performed in accordance with the IPP, by way of deduction from any payment that may be due or payable to the Contractor.

6. Nothing in this section limits any other remedy or action available to Canada under this contract.

Part 12

Indigenous Participation Plan - Invoicing instructions (IPP0012)

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the General Conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. As a condition of payment, each invoice must be supported by:
 - a. a copy of a completed and up-to-date Indigenous Participation Plan (IPP) Progress Report as described in Annex E (IPP Progress Report) of the Contract;
 - b. a copy of time sheets to support the time claimed;
 - c. a copy of the release document and any other documents as specified in the Contract;
 - d. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses; and
 - e. a copy of the monthly progress report.
3. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the following address, for certification and payment:
_____ *(Insert the name of the organization)*
_____ *(Insert the address of the organization)*;
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" (of the Contract).

Part 13

Indigenous Participation Plan - Invoicing Instructions - Progress Payment Claim (IPP0013)

1. The Contractor must submit a claim for payment using form [PWGSC-TPSGC 1111](#), Claim for Progress Payment. See Annex F for further information.
2. Each claim must show:
 - a. all information required on form [PWGSC-TPSGC 1111](#); and
 - b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions.
3. Each claim must be supported by:
 - a. a copy of a completed and up-to-date Indigenous Participation Plan (IPP) Progress Report as described in Annex E (IPP Progress Report) of the Contract
 1. a copy of time sheets to support the time claimed;
 2. a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses; and
 3. a copy of the monthly progress report.
4. The Contractor must prepare and certify one original of form [PWGSC-TPSGC 1111](#), and forward it to the Project Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Project Authority will then forward the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.
5. The Contractor must not submit claims until all work identified in the claim is completed.

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Part 14

Canada's Indigenous Participation Plan Authority (IPP0014)

Canada's Indigenous Participation Plan (IPP) Authority for the Contract is:

Name: Paul Lacoursiere

Title: Supply Team Lead

Public Works and Government Services Canada

Acquisitions Branch

Directorate: DMPD

Address: 11 Laurier St Gatineau PQ|QC K1A 0S5 Canada

Telephone: Cell 343-551-1529

E-mail address: Paul.Lacoursiere@tpsgc-pwgsc.gc.ca

The IPP Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for matters concerning the IPP Benefits in the Contract. Matters pertaining to the implementation of the IPP may be discussed with the IPP Authority.

Changes to the IPP, including any Corrective Action Plan, can only be made through a contract amendment issued by the Contracting Authority.

Part 15

Contractor's Indigenous Participation Plan Authority (IPP0015)

The Contractor's Indigenous Participation Plan (IPP) Authority for the Contract is:

Please fill out.

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____

Facsimile: _____

Email address: _____

The Contractor's IPP Authority is the representative of the Contractor who is responsible for matters

concerning IPP Benefits in the Contract. Matters pertaining to the IPP may be discussed with the Contractor's IPP Authority.

Part 16

16 Remedies

16.1. Notwithstanding the terms of the Contract that provide remedies in the event of default by the Contractor, one or more of the following remedies may be exercised in the event of default under these Terms and Conditions. Some or all remedies may apply, but combined the remedies under these terms and conditions found in the IPP will not exceed 10% of the overall Contract Price. In the event of a default by the Contractor of its obligations pursuant to these Terms and Conditions, the remedies contained in this Article are in addition to, and not in substitution for, any remedies provided elsewhere in the Contract. Below is a summary of the remedies:

Holdback/Stop Payment ; Holdbacks/stop payment would typically apply throughout the course of the contract, in those circumstances where the schedule for identifying Transactions, the achievement of Indigenous milestones are not met. Holdbacks will be a percentage of the milestone payment and would be released progressively as the deficiency is extinguished.

Contract Termination; Contract termination could be used in circumstances where the Contractor has failed to satisfy certain pre-identified, major Obligations.

16.2. Holdback/Stop Payment

16.3.1. If the Contractor has failed to meet any of its Obligations contained in the Indigenous Participation Plan the Contracting Authority will notify the Contractor in writing of such deficiency and Canada may apply a holdback (the Holdback) from any claim for payment then due or payable under the Contract.

16.2.2. With respect to the Holdback, a cure period of 60 calendar days (the Cure Period), beginning on the date of notification to the Contractor by the Contracting Authority, will apply before the Holdback takes effect.

16.2.2.1. Within the Cure Period, the Contractor may take corrective action by providing to the Contracting Authority a corrective action plan to remedy the deficiency. If the plan is accepted by the Contracting Authority, no Holdback will be made.

16.2.2.2. If, after the Cure Period, the plan has not been accepted the accrual of the Holdback will be equal to 10% (profit) of the, milestone claim for payment and will accrue until it reaches the amount of the deficiency, or until the Contractor submits a plan that is approved by the Contracting Authority, whichever occurs first.

16.2.3. The Holdback will be released progressively as the deficiency is extinguished. During the Holdback period, the Contract Authority will confirm the amount of Transactions identified within a reasonable amount of time from when the claims for Transactions are submitted by the Contractor. The corresponding amount of the Holdback will be released when the next payment under the Contract is made.

17. Responsibilities of the parties

17.1. The award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfill the Obligations.

17.2. It is the responsibility of the Contractor to ensure that it can complete the Transactions and that these are not limited by applicable laws, regulations, policies or standards.

18. Contract price changes

18.1. In the event that the Contract Price is increased (e.g. New Tasks or options exercised) or decreased, the Contractor's Obligations in the contract will correspondingly be either increased or decreased.

18.2. If the Contract Price increases after the 2nd year following the effective date of the Contract, the Contractor must submit to the Contract Authority, Transactions valued at or greater than what they proposed within the IPP Process, within 1 year of the date of the increase.

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ANNEX E

INDIGENOUS PROCUREMENT PLAN CERTIFICATION

To be eligible for contract award, the Bidder must complete this Annex E and include a copy with the bid submission. Failure to provide a completed copy of this certification will result in a score of zero in the indigenous participation point rated criteria.

The Bidder must, upon request by Canada, provide to Canada all necessary information and evidence supporting this certification. The Bidder must ensure that this evidence will be available for audit during normal business hours by a representative of Canada, who may make copies and take extracts from the evidence. The Bidder must provide access to all reasonably required facilities for any audits.

By submitting a bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

Name of business	
Name(s) of business owner(s)	
<p>I am an owner of _____ (<i>insert name of business</i>) and a representative for the business.</p> <p>I certify that all the information included within the Indigenous Participation Plan I have submitted with my bid is true, and I consent to its verification, upon request, by Canada.</p>	
Printed name of owner	Date
Signature of owner	

ANNEX E

IPP PROGRESS REPORT

The Contractor may use the following report template in order to demonstrate its progress towards the Indigenous Participation Plan obligations identified within its bid.

Contract #:		Report Date:	
Period of Work Covered by the Report (e.g. period, year, phase):			
Contractor's Name and Address:			

Indigenous Ownership

Instruction to Contractor

Provide a report to Canada that includes the following:

- Reporting period covered (e.g., dates, reporting interval, project milestones, year-to-date, etc.)
- Benefits delivered during the reporting period (e.g., value of work completed, subcontracts issued, supplies purchased, etc.)
 - Description of the work completed, or subcontracts issued, including which party delivered the benefits (i.e. Contractor, subcontractor or supplier)
 - If applicable, progress related to benefit delivery plan or schedule
- Benefits (commitments) remaining to be delivered by the end of contract (e.g., value of work completed, subcontracts issued, supplies purchased, etc.)

The following example demonstrates a report that may be submitted for IPP commitments related to Indigenous ownership. Bidders must submit any subcontractor's information with the value of the contracts. Indigenous Businesses must meet the criteria laid out in: <http://www.naedb-cndea.com/en/defining-indigenous-businesses-in-canada>

IPP INDIGENOUS OWNERSHIP - Phase 1 of 3 (January 1 to June 30, 2021)			
Item	Company Name and Role (e.g. Contractor, subcontractor)	Description of the Work	Dollar Value for this Reporting Period
1	ABC Construction (Contractor)	General contracting and project management	\$35,000.00
2	123 Demolition (subcontractor)	Concrete pad demolition and removal	\$20,000.00
3	Tom's Concrete (subcontractor)	Concrete prep, pouring and finishing	\$10,000.00

4	Gail's Hardware (supplier)	Construction tools, supplies and material	\$10,000.00
Total for this Reporting Period			\$75,000.00
Total Value of IPP Indigenous Ownership Commitments			\$295,000.00
IPP Indigenous Ownership Commitments Remaining to be Delivered			\$180,000.00

For this example, all businesses listed are Indigenous-owned businesses. Non-Indigenous businesses would not be included in an IPP Progress Report.

The template above would be considered acceptable as it provides sufficient information for Canada to evaluate the Contractor's progress made towards delivering on its IPP commitments. If, in this example, the entire contract was to take place over 18 months, this report would cover one-third of that duration, and Canada may comment upon the fact that one-third of committed benefits were not delivered during the period. The Contractor may indicate that it had intended to purchase a much greater volume of tools, supplies and material through Gail's Hardware, but that supply chain issues had resulted in very limited availability. If it is clear that these developments would impact the Contractor's ability to fulfill the IPP Indigenous Ownership commitments, the Contractor may suggest alternate means to achieve the overall commitment. This might involve finding another Indigenous supplier for required materials, or supplementary benefits in the categories of Employment of Indigenous Persons or Training and Skills Development for Indigenous Persons. It is not necessary that the benefits provided occur in the same category as they were originally committed to, though the delivered benefits should be materially similar. Canada can be an active participant in making suggestions for the Contractor to practically achieve its original overall IPP commitment.

This ongoing dialogue between Canada and the Contractor is one of the intended outcomes and objectives underlying IPP Progress Reports. The overall goal should be to ensure delivery of the benefits identified within a Contractor's IPP.

Employment of Indigenous Persons

Instruction to Contractor

Provide a report to Canada that includes the following:

- Reporting period covered (e.g., dates, reporting interval, project milestones, year-to-date, etc.)
- Benefits delivered during the reporting period (e.g., wages, hours, number of Indigenous employees, etc.)
 - If applicable, progress related to benefit delivery plan or schedule
- Benefits (commitments) remaining to be delivered by the end of contract (e.g., wages, hours, number of Indigenous employees, etc.)

The following example demonstrates a report that may be submitted for IPP commitments related to employment.

IPP EMPLOYMENT - FYQ 1 (April 1 to June 30, 2022)		
Item	Employment Type or Position	Wages for this Reporting Period
1	Journeyman electrician	\$2,500.00
2	Apprentice electrician	\$1,750.00
3	Engineer (to be hired)	\$0.00
4	General labourers (average of five employed over reporting period)	\$2,300.00
Total Wages for this Reporting Period		\$6,550.00
Total Value of IPP Employment Commitments		\$37,250.00
IPP Employment Commitments Remaining to be Delivered		\$26,000.00

The template above would be considered acceptable as it provides sufficient information for Canada to evaluate the Contractor's progress made towards delivering on its IPP commitments. If, in this example, the entire contract was to take place over one fiscal year, this report would cover one-quarter of that duration, and Canada may comment upon the fact that one-quarter of committed benefits were not delivered during the period. However, in this case, the Contractor could indicate that the reporting period includes ramp-up time, and though the engineer position remains to be filled, they have a pool of Indigenous candidates. Once hired, the significantly higher wages for that position will make-up any apparent shortfall in progress towards the IPP employment commitment.

This ongoing dialogue between Canada and the Contractor is one of the intended outcomes and objectives underlying IPP Progress Reports.

Training and Skills Development for Indigenous Persons

Instruction to Contractor

Provide a report to Canada that includes the following:

- Reporting period covered (e.g., dates, reporting interval, project milestones, year-to-date, etc.)
- Benefits delivered during the reporting period (e.g., training hours, training objective, number of Indigenous trainees, trainee wages, etc.)
 - If applicable, progress related to benefit delivery plan or schedule
- Benefits (commitments) remaining to be delivered by the end of contract (e.g., training hours, training objective, number of Indigenous trainees, trainee wages, etc.)

The following example demonstrates a report that may be submitted for IPP commitments related to training and skills development.

IPP TRAINING AND SKILLS DEVELOPMENT - Milestone 1 of 2

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Item	Training Type	Training Objective	Training Hours for this Reporting Period
1	Apprentice electrician (2 trainees)	Training hours will contribute to trainees' achievement of professional electrician level 1	500 hrs.
2	Red Seal welder	Training hours will contribute to trainee's progress towards receiving a Red Seal	200 hrs.
3	General labour (2 trainees)	On-the-job training for general labour	50 hrs.
Total Hours for this Reporting Period			750 hrs.
Total IPP Training and Skills Development Commitments			2,000 hrs.
IPP Training and Skills Development Commitments Remaining to be Delivered			1,250 hrs.

The template above would be considered acceptable as it provides sufficient information for Canada to evaluate Contractor's progress made towards delivering on its IPP commitments. In this example, Milestone 1 covers half of the full contract term, and Canada may comment upon the fact that only roughly one-third of committed benefits were delivered during the period covered by the report. In this case, the Contractor may note that it had originally identified two trainees in the general labour category, but after a short amount of training had been completed, both received other opportunities they decided to pursue. Canada may work with the Contractor to identify additional training opportunities for Indigenous persons, or IPP benefits in another category, to ensure delivery of results that provide a materially-similar outcome in comparison to the original commitment.

This ongoing dialogue between Canada and the Contractor is one of the intended outcomes and objectives underlying IPP Progress Reports.

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ANNEX "F" ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ () VISA Acquisition Card;
- ☐ () MasterCard Acquisition Card;
- ☐ () Direct Deposit (Domestic and International);
- ☐ () Electronic Data Interchange (EDI);
- ☐ () Wire Transfer (International Only);
- ☐ () Large Value Transfer System (LVTS) (Over \$25M)

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ANNEX “G”

DND 626 TASK AUTHORIZATION FORM

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Annex G – DND 626 Task Authorization Form
To: W7714-228152
Date: 3 Jan 2024

	Total
<p>APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract.</p> <p>NE S'APPLIQUE QU'AUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.</p> <p>_____</p> <p>for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux</p>	

Annex G – DND 626 Task Authorization Form

To: W7714-228152

Date: 3 Jan 2024

Instructions for completing DND 626 - Task Authorization

Contract no.
Enter the PWGSC contract number in full.

Task no.
Enter the sequential task number.

Amendment no.
Enter the amendment number when the original Task is amended to change the scope or the value.

Increase/Decrease
Enter the increase or decrease total dollar amount including taxes.

Previous value
Enter the previous total dollar amount including taxes.

To
Name of the contractor.

Delivery location
Location where the work will be completed, if other than the contractor's location.

Delivery/Completion date
Completion date for the task.

for the Department of National Defence
Signature of the DND person who has delegated Authority for signing DND 626 (level of authority based on the dollar value of the task and the equivalent signing authority in the PAM 1.4). **Note:** the person signing in this block ensures that the work is within the scope of the contract, that sufficient funds remain in the contract to cover this task and that the task is affordable within the Project/Unit budget.

Services
Define the requirement briefly (attach the SOW) and identify the cost of the task using the contractor's quote on the level of effort. The Task must use the basis of payment stipulated in the contract. If there are several basis of payment then list here the one(s) that will apply to the task quote (e.g. milestone payments; per diem rates/labour category hourly rates; travel and living rates; firm price/ceiling price, etc.). All the terms and conditions of the contract apply to this Task Authorization and cannot be ignored or amended for this task. Therefore it is not necessary to restate these general contract terms and conditions on the DND 626 Task form.

Cost
The cost of the Task broken out into the individual costed items in **Services**.

GST/HST
The GST/HST cost as appropriate.

Total
The total cost of the task. The contractor may not exceed this amount without the approval of DND indicated on an amended DND 626. The amendment value may not exceed 50% (or the percentage for amendments established in the contract) of the original value of the task authorization. The total cost of a DND 626, including all amendments, may not exceed the funding limit identified in the contract.

Applicable only to PWGSC contracts
This block only applies to those Task Authorization contracts awarded by PWGSC. The contract will include a specified threshold for DND sole approval of the DND 626 and a percentage for DND to approve amendments to the original DND 626. Tasks that will exceed these thresholds must be passed to the PWGSC Contracting Authority for review and signature prior to authorizing the contractor to begin work.

Instructions pour compléter le formulaire DND 626 - Autorisation des tâches

N° du contrat
Inscrivez le numéro du contrat de TPSGC en entier.

N° de la tâche
Inscrivez le numéro de tâche séquentiel.

N° de la modification
Inscrivez le numéro de modification lorsque la tâche originale est modifiée pour en changer la portée.

Augmentation/Réduction
Inscrivez le montant total de l'augmentation ou de la diminution, y compris les taxes.

Valeur précédente
Inscrivez le montant total précédent, y compris les taxes.

À
Nom de l'entrepreneur.

Expédiez à
Endroit où le travail sera effectué, si celui-ci diffère du lieu d'affaires de l'entrepreneur.

Date de livraison/d'achèvement
Date d'achèvement de la tâche.

pour le ministère de la Défense nationale
Signature du représentant du MDN auquel on a délégué le **pouvoir d'approbation** en ce qui a trait à la signature du formulaire DND 626 (niveau d'autorité basé sur la valeur de la tâche et le signataire autorisé équivalent mentionné dans le MAA 1.4). **Nota :** la personne qui signe cette attache de signature confirme que les travaux respectent la portée du contrat, que suffisamment de fonds sont prévus au contrat pour couvrir cette tâche et que le budget alloué à l'unité ou pour le projet le permet.

Services
Définissez brièvement le besoin (joignez l'ET) et établissez le coût de la tâche à l'aide de la soumission de l'entrepreneur selon le niveau de difficulté de celle-ci. Les modalités de paiement stipulées dans le contrat s'appliquent à la tâche. Si plusieurs d'entre elles sont prévues, énumérez ici celle/celles qui s'appliqueront à la soumission pour la tâche à accomplir (p.ex. acompte fondé sur les étapes franchies; taux quotidien ou taux horaire établi selon la catégorie de main-d'œuvre; frais de déplacement et de séjour; prix fixe ou prix plafond; etc.). Toutes les modalités du contrat s'appliquent à cette autorisation de tâche et ne peuvent être négligées ou modifiées quant à la tâche en question. Il n'est donc pas nécessaire de répéter ces modalités générales afférentes au contrat sur le formulaire DND 626.

Prix
Mentionnez le coût de la tâche en le répartissant selon les frais afférents à chaque item mentionné dans la rubrique **Services**.

TPS/TVH
Mentionnez le montant de la TPS/TVH, s'il y a lieu.

Total
Mentionnez le coût total de la tâche. L'entrepreneur ne peut dépasser ce montant sans l'approbation du MDN, formulaire DND 626 modifié à l'appui. Le coût de la modification ne peut pas être supérieur à 50 p. 100 du montant initial prévu dans l'autorisation de tâche (ou au pourcentage prévu dans le contrat pour les modifications). Le coût total spécifié dans le formulaire DND 626, y compris toutes les modifications, ne peut dépasser le plafond de financement mentionné dans le contrat.

Ne s'applique qu'aux contrats de TPSGC
Le présent paragraphe s'applique uniquement aux autorisations de tâche accordées par TPSGC. On inscrira dans le formulaire DND 626 un plafond précis qui ne pourra être approuvé que par le MDN et un pourcentage selon lequel le MDN pourra approuver des modifications au formulaire DND 626 original. Les tâches dont le coût dépasse ces plafonds doivent être soumises à l'autorité contractante de TPSGC pour examen et signature.

Annex G – DND 626 Task Authorization Form

To: W7714-228152

Date: 3 Jan 2024

Note:

Work on the task may not commence prior to the date this form is signed by the DA Authority - for tasks within the DND threshold; and by both DND and PWGSC for those tasks over the DND threshold.
avant qu'on autorise l'entrepreneur à débiter les travaux.

Nota :

Les travaux ne peuvent commencer avant la date de signature de ce formulaire par le responsable du MDN, pour les tâches dont le coût est inférieur au plafond établi par le MDN, et par le MDN et TPSGC pour les tâches dont le coût dépasse le plafond établi par le MDN.

Solicitation No. - N° de l'invitation
W7714-228152/A
Client Ref. No. - N° de réf. du client
W7714-228152

Amd. No. - N° de la modif.
File No. - N° du dossier
125QF. W7714-228152

Buyer ID - Id de l'acheteur
125QF
CCC No./N° CCC - FMS No./N° VME

ANNEX “H”

ONE ON ONE MEETING SCHEDULE and INFORMATION

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ANNEX H

POTHR CLASSIFIED ONE-ON-ONE SESSION INFORMATION

The intention of the one-on-one meetings is to release the locations of the requirements within the RFP as per Annex D. The Crown will NOT answer questions or discuss the requirement with the Contractors. The one-on-one meetings will be able to accommodate up to two personnel from each company who wishes to submit a bid. Only those who have a SECRET clearance through PSPC may attend the one-on-one meetings. These sessions will be conducted in English as per the choice of language by the vendors during the RFI stage. Each contractor may register up to two representatives to attend the one-on-one meetings. Contractors and individual personnel must fill out and sign Non-Disclosure Agreements (NDA). See attachment one and two to this Annex;

Participating Contractors are advised that the one-on-one meetings will provide more granularity of the location of the DRDC requirements.

Contractors are not required to attend a one-on-one meetings, however they would not receive the actual location of the requirement. Bidders who do not attend are still welcome to submit a response to this RFP.

ONE-ON-ONE MEETING DETAILS

Dates: Wednesday, February 07 2024

Location & Address: Gate One
Department of National Defence
NDHQ (Carling Campus)
60 Moodie Drive
Ottawa, Ontario, Canada K2H 8G1

Security Classification: Classified SECRET

Note: For external attendees: There is daily parking near Gate One but parking is limited.

Registration Deadline: *January the 17, 2024 at 3:00 pm EST*

Reporting requirements:

Contractor representatives must report to Gate One on the west side of site at the assigned time. A Crown representative will meet the Contractor representatives and assist with check-in. Government photo ID is required.

Crown representative will escort Contractor to secure area. It is a 10-15 minute walk from Gate One to the secure area. When secure area is ready, The Contractor will enter secure area and will have up to 30 minutes to study classified Annex D. No questions will be answered by the Crown.

Crown representative will then escort Contractor back to Gate One and assist with check-out.



REGISTRATION REQUIREMENTS

Information Required:

In order to register for a one-on-one meeting Contractors must provide the following by *January the 17, 2024 at 3:00 pm EST*:

1. Name of company;
2. Full name, corporate title, citizenship and Date of birth (DOB) of each supplier or employee attending;
3. The Security clearance(s) and Personnel Security Identification file number (if available) of each supplier or employee attending;
4. Date of Visit is Wednesday February, **17 2024**
5. Purpose of visit;
6. Point of contact email and phone number for each participant; and
7. Sign the Corporate and Individual Non-Disclosure Agreements in the form set out in Annex H and return to the Contracting Authority herein (a scanned copy via email is acceptable).

Security Requirements required to attend the classified one on ones:

1. The Supplier must, hold a valid Facility Security Clearance at the level of SECRET, with approved Document Safeguarding at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Supplier personnel requiring access to **CLASSIFIED / PROTECTED** information, assets or sensitive work site(s) **must be citizens of Canada and/or United States and must EACH hold a valid personnel security screening at the level of SECRET**, granted or approved by the CISD/ PWGSC.
3. The Supplier **MUST NOT** utilize its Information Technology systems to electronically process, produce or store any sensitive **CLASSIFIED / PROTECTED** information until CISD/PWGSC has is-sued written approval. After approval has been granted, these tasks may be performed at the level of **SECRET** and an IT Link at the level of **SECRET**.
4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.

Each Contractor or Supplier will be allowed to register for one session lasting 30 Minutes

Attendees are responsible for their own transportation, accommodation, meals, parking and all other expenses.

Please contact the following to register for the Classified One-on-One Sessions:

Paul Lacoursiere

Cell/ Cellulaire: 343-551-1529

Paul.Lacoursiere@tpsgc-pwgsc.gc.ca ,

Public Services and Procurement Canada



11 Laurier Street Gatineau, Quebec K1A 0S5

The use of email to communicate is preferred for unclassified questions.

RULES OF ENGAGEMENT

By participating in the one-on-one meeting, attendees agree to the rules of engagement detailed in This Annex.

INFORMATION PRIOR TO CLASSIFIED ONE ON ONES:

Contractors and Supplies may still provide formal unclassified comments or questions in writing to the Contracting Authority identified above in response to the RFP.

QUESTIONS CONTAINING CLASSIFIED INFORMATION

Contractors and Supplies must not email any questions which contain SECRET classified information. This includes references to details in Annex D.

LANGUAGE

Documents will be available in both English and French.



ONE-ON-ONE SESSIONS	
Dates:	Wednesday, February,17, 2024
Location & Address:	Gate One Department of National Defence NDHQ (Carling Campus) 60 Moodie Drive Ottawa, Ontario, Canada K2H 8G1 Room: TBD
Room Description:	Classified
Time:	08:30-1530

Please Note: Due to the nature of the information being discussed, all participants must have a valid Secret level security clearance.

DATES	TIME SLOTS	QUALIFIED SUPPLIER NAME
Wednesday, February 17 2024	0830-0930	
	0900-1000	
	0930-1030	
	1000-1100	
	1030-1130	
	1100-1200	
	1300-1400	
	1330-1430	
	1400-1500	
	1430-1530	

Please note: The scheduled time slots will be scheduled in the order of the requests received by the CA
For example : If two requests are received for the same time slot, the slots will be assigned in the order in which they were received.



ATTACHMENT 1

CORPORATE

NON-DISCLOSURE AGREEMENT FOR PARTICIPATION IN INDUSTRY

ENGAGEMENT PWGSC FILE # W7714-228152

The above noted solicitation process (the “**Solicitation Process**”), including the “Industry Engagement” component, may require the disclosure of Information and Controlled Information (each as defined below) by or on behalf of Canada to Recipient. In consideration of Canada providing such disclosures, Recipient acknowledges and agrees that:

1. Information

- (a) During the Solicitation Process, Canada may disclose certain information to Recipient: (i) that is not Controlled Information (as defined below); or (ii) that is information that is not otherwise made publicly available by Canada without obligations of confidentiality or non-disclosure (collectively, the “**Information**”).
- (b) Canada is disclosing the Information to Recipient for the sole and exclusive purpose of enabling Recipient to participate in the Solicitation Process, and, should Recipient determine it wishes to do so, to prepare and submit an offer to Canada, should Canada seek such offers (the “**Purpose**”).
- (c) Recipient shall keep confidential the Information provided to Recipient by or on behalf of Canada in connection with the Solicitation Process.
- (d) Any disclosure of the Information shall be on a “need to know” basis solely to Recipient’s employees or to its legal or financial advisors, provided they have executed, in advance, the Individual Non-Disclosure Agreement herein. Recipient shall not disclose any Information to any other person including to its contractors or subcontractors without Canada’s prior written consent nor shall Recipient make or permit any public disclosure or release whatsoever of the Purpose or the Information, in whole or in part. Recipient shall not alter, remove or obstruct any confidentiality or other notices provided on or in the Information, and shall reproduce, in full, all such notices and markings in or on any copies, extracts or other documentation which may contain any Information.
- (e) Recipient may disclose Information where required to do so by law or order of a court of competent jurisdiction, but only to the extent necessary to comply with such law or order and provided that Recipient has first provided advance written notice to Canada so that Canada, at its sole discretion, may obtain any protective order or its equivalent. Recipient shall notify the relevant person or entity to whom the Information is to be disclosed of the confidential nature of such information and request confidential treatment. Without prejudice to the foregoing, Recipient shall comply with all reasonable requests of Canada relating to such disclosure.
- (f) Unless otherwise permitted under paragraph (g), Recipient shall, on the earlier of Canada’s written request or the completion or termination of the Purpose or any solicitation process with respect thereto, return or destroy (as Canada may direct) all of the Information disclosed by or on behalf of Canada in its possession or under its control, and procure the return or destruction (as Canada may direct) of any such Information in the possession or under the control of any person to whom such Information may have been disclosed, save that Recipient’s legal advisors may each retain one copy of the Information to the extent required to satisfy their professional duties or requirements. For the purposes of this paragraph, “destruction” shall include expunging any Information held on computer or other electronic systems.
- (g) Should Recipient be awarded a contract as a result of the Solicitation Process, Recipient is entitled to retain the Information, subject to its continued compliance with this Agreement and those provisions of the awarded contract with respect thereto.

2. Controlled Information (if applicable)

- (a) Controlled Information means: (i) any information or materials that are a controlled good as defined in the *Schedule (Controlled Goods List)* of the *Defence Production Act*; or (ii) any information that is subject to Canada’s Industrial or Contract Security Program, including PROTECTED/CLASSIFIED information or materials; or (iii) information or materials that are both a controlled good as defined in the *Defence Production Act* and subject to Canada’s Industrial or Contract Security Program.
- (b) Recipient acknowledges and agrees that any and all use of Controlled Information, including without limitation, all access, copying, distribution, disclosure, transmission, retransmission, export, re-export, transfer, re-transfer, storage and destruction (or prohibitions on destruction) of Controlled Information, shall be on a “need to know” basis solely and exclusively for the Purpose and shall be subject to and in compliance with, as applicable: (i) the *Controlled Goods Regulations* and the requirements of the Controlled Goods Program (including registration, compliance, or exemption); and (ii) Canada’s Industrial or Contract Security Program including any Security Agreement or other requirements of such Program(s), including those Security Requirements as set forth in Annex E (as applicable) to this Agreement. Nothing contained in this Agreement limits or otherwise derogates from Recipient’s obligations under either of the foregoing Programs. (iii) Recipient acknowledges that (i) Canada may disclose Controlled Information during the Solicitation Process to Recipient, to the extent Recipient is authorized to receive such Controlled Information; and (ii) Recipient may not be authorized to receive all Controlled Information otherwise made available by Canada during the Solicitation Process. Recipient remains solely responsible for maintaining all requisite authorizations and permissions at all times.
- (c) Without limiting the foregoing, Recipient shall return or destroy (at Canada’s sole and exclusive direction) any Controlled Information. Recipient acknowledges that such direction may be provided by Canada in its sole and exclusive discretion, whether or not the Solicitation Process has been completed or terminated or Recipient has completed the Purpose.



3. General

- (a) Recipient is liable for any damages, costs, losses and expenses arising from a breach of this Agreement by Recipient, its employees, representatives and/or any other party to whom Recipient discloses the Information or Controlled Information. The provisions of this Agreement shall survive termination of this Agreement and/or any return or destruction of Information or Controlled Information, and/or termination or completion of the Purpose or the Solicitation Process. This Agreement and any dispute or claim arising out of or in connection with it shall be governed by and construed in accordance with the laws of the Province of Ontario.

Recipient Name: _____

[Insert full corporate (legal) name]

I have authority to bind Recipient

Per: _____ Name (print): _____ Date: _____

Recipient Security Officer

Per: _____ Name (print): _____ Date: _____

PSPC Contracts:

Name: Paul Lacoursiere

Title: Supply Team Lead

Public Works and Government Services Canada

Acquisitions Branch

Directorate: DMPD

Address: 11 Laurier St Gatineau PQ|QC K1A 0S5 Canada

Telephone: Cell 343-551-1529

E-mail address: Paul.Lacoursiere@tpsgc-pwgsc.gc.ca

The use of email to communicate is preferred.



ATTACHMENT 2

INDIVIDUAL

NON-DISCLOSURE AGREEMENT FOR PARTICIPATION IN INDUSTRY

ENGAGEMENT PWGSC FILE # W7714-228152

The above noted solicitation process (the “**Solicitation Process**”), including the Industry Engagement component, may require the disclosure of Information and Controlled Information (each as defined below) to Recipient by or on behalf of Canada or by Recipient’s employer as identified below (the “**Company**”). Recipient acknowledges and agrees that:

1. Information

- (a) During the Solicitation Process certain information may be disclosed to Recipient by the Company or by or on behalf of Canada: (i) that is not Controlled Information (as defined below); or (ii) that is information that is not otherwise made publicly available by Canada without obligations of confidentiality or non-disclosure (collectively, the “**Information**”).
- (c) Disclosure of Information to Recipient is for the sole and exclusive purpose of enabling Recipient, on behalf of and under the direction of Company, to participate in the Solicitation Process (the “**Purpose**”).
- (d) Recipient shall keep confidential all Information provided to Recipient. Any disclosure of the Information shall be on a “need to know” basis solely to Company’s employees who have been identified by Company as being authorized to receive such Information. Recipient shall not disclose any Information to any other person including to Company’s contractors or subcontractors without Company’s prior written direction nor shall Recipient make or permit any public disclosure or release whatsoever of the Purpose or the Information, in whole or in part. Recipient shall not alter, remove or obstruct any confidentiality or other notices provided on or in the Information, and shall reproduce, in full, all such notices and markings in any copies, extracts or other documentation which may contain any Information.
- (e) Recipient may disclose Information where Company has confirmed that Company is required to do so by law or order of a court of competent jurisdiction, but only to the extent necessary to comply with such law or order and provided that, without prejudice to the foregoing, Recipient has complied with any direction of Company with respect to such disclosure.
- (f) Recipient shall, immediately, upon direction from Company, return or destroy all of the Information in Recipient’s possession or under Recipient’s control. For the purposes of this paragraph, “destruction” shall include expunging any Information held on computer or other electronic systems.

2. Controlled Information (if applicable)

- (a) Controlled Information means: (i) any information or materials that are a controlled good as defined in *Schedule (Controlled Goods List)* of the *Defence Production Act*, or (ii) any information that is subject to Canada’s Industrial or Contract Security Program, including PROTECTED/CLASSIFIED information or materials; or (iii) information or materials that are both a controlled good as defined in the *Defence Production Act* and subject to Canada’s Industrial or Contract Security Program.
- (b) Any and all use of Controlled Information, including without limitation, all access, copying, distribution, disclosure, transmission, retransmission, export, re-export, transfer, re-transfer, storage and destruction (or prohibitions on destruction) of Controlled Information, shall be on a “need to know” basis solely and exclusively for the Purpose and shall be subject to and in compliance with, as applicable: (i) the *Controlled Goods Regulations* and the requirements of the Controlled Goods Program (including registration, compliance, or exemption); and (ii) Canada’s Industrial or Contract Security Program including any Security Agreement or other requirements of such Program(s), including those Security Requirements as set forth in Annex E (as applicable) to this Agreement. Nothing contained in this Agreement limits or otherwise derogates from Recipient’s obligations under either of the foregoing Programs.
- (c) Without limiting the foregoing, Recipient shall immediately, at Company’s direction, return or destroy any Controlled Information in Recipient’s possession or under Recipient’s control.



3. General

- (a) Recipient shall immediately notify Company of any breach of this Agreement. The provisions of this Agreement shall survive termination of this Agreement and/or any return or destruction of Information or Controlled Information, and/or termination or completion of the Purpose or the Solicitation Process. This Agreement and any dispute or claim arising out of or in connection with it shall be governed by and construed in accordance with the laws of the Province of Ontario.

Company (print): _____	Company Security Officer (print): _____
Recipient: (print name): _____	Signature: _____
Signature: _____	Date: _____
Date: _____	

PSPC Contracts:

Name: Paul Lacoursiere

Title: Supply Team Lead

Public Works and Government Services Canada

Acquisitions Branch

Directorate: DMPD

Address: 11 Laurier St Gatineau PQ|QC K1A 0S5 Canada

Telephone: Cell 343-551-1529

E-mail address: Paul.Lacoursiere@tpsgc-pwgsc.gc.ca

The use of email to communicate is preferred.

Solicitation No. - N° de l'invitation
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File No. - N° du dossier
125QF. W7714-228152

Buyer ID - Id de l'acheteur
125QF
CCC No./N° CCC - FMS No./N° VME

ANNEX I**PART 5 OF THE BID SOLICITATION****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.

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 permanent full-time and/or permanent part-time employees.

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)