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The Articles contained in this document are mandatory in their entirety, unless otherwise indicated. Acceptance of these Articles, in their entirety, as they appear in this document, is a Mandatory requirement of this RFP.

**Suppliers submitting a proposal containing statements implying that their proposal is conditional on modification of these clauses or containing terms and conditions that purport to supersede these clauses or derogate from them will be considered non-responsive.**

Bidders with concerns regarding the provisions of the Bid Solicitation document (including the Resulting Contract Clauses) should raise such concerns in accordance with the Enquiries provision of this RFP.

By signing its bid, the bidder confirms that they have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and certifies that:

1. The Bidder considers itself and its proposed resources able to meet all the mandatory requirements described in the bid solicitation;
2. This bid is valid for the period requested in the bid solicitation;
3. All the information provided in the bid is complete, true and accurate; and
4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation.



## **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 and any other annexes.

### **1.2 Summary**

By means of the RFP, Natural Resources Canada (NRCan) is seeking proposals from bidders to complete a research report that provides an overview and analysis of the potential for mine tailings for CO<sub>2</sub> storage.

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

### **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 fifteen (15) working days from receipt of the results of the bid solicitation process. The debriefing will be done in writing, by email.



## 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.

- **In the complete text content (except Section 1 and 3)**  
**Delete:** Public Works and Government Services Canada” and “PWGSC”  
**Insert:** “Natural Resources Canada.” and “NRCan”
- **At 02 Procurement Business Number:**  
**Delete:** “Suppliers are required to”  
**Insert:** “It is suggested that suppliers”
- **At 08 Transmission by facsimile or by Canada Post Corporation's (CPC) Connect service, article 1:**  
**Delete:** in its entirety
- **At 08 Transmission by facsimile or by Canada Post Corporation's (CPC) Connect service, article 2a:**  
**Delete:** : The only acceptable email address to use with CPC Connect for responses to bid solicitations issued by PWGSC headquarters is: [tpsgc.pareceptiondessaoumissions-apbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca](mailto:tpsgc.pareceptiondessaoumissions-apbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca). or, if applicable, the email address identified in the bid solicitation.  
**Insert:** The only acceptable email address to use with CPC Connect for responses to bid solicitation issued by NRCan is: [procurement-appvisionnement@NRCan-RNCan.gc.ca](mailto:procurement-appvisionnement@NRCan-RNCan.gc.ca)
- **At 08, Transmission by facsimile or by Canada Post Corporation's (CPC) Connect service, article 2b:**  
**Delete:** “six business days”  
**Insert:** “five business days”
- **At 20, Further information, article 2b:**  
**Delete:** in its entirety

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

Delete: 60 days

Insert: 180 days

### 2.2 Submission of Bids

Bidders must submit all proposals using the Canada Post Canada (CPC) Connect service. Given the current constraints on NRCan's networks, the electronic mail system has a limit of 1GB per single message received and a limit of 20GB per conversation.



Bids must be submitted no later than the date and time indicated on page 1 of the bid solicitation.

**Only bids submitted using CPC Connect service will be accepted.**

At least five (5) business days before the bid solicitation closing date, it is necessary for the Bidder to send an email requesting to open CPC Connect conversation to the following address:

[procurement-appvisionnement@NRCan-RNCan.gc.ca](mailto:procurement-appvisionnement@NRCan-RNCan.gc.ca)

**Note 1:** Bids will not be accepted if e-mailed directly to this address. This e-mail address is to be used to open CPC Connect conversation, as detailed in the Standard Instructions [2003 \(article 08, paragraph 2\)](#), or to send bids through CPC Connect message if the bidder is using its own licensing agreement for CPC Connect.

**Note 2:** Send as early as possible in order to ensure a response, Requests to open a CPC Connect conversation received after that time may not be answered.

**IMPORTANT:** It is requested that you write the bid solicitation number in "Subject" of the email: [NRCan-5000088835 - Analysis of Mine Tailings for CO<sub>2</sub> Sequestration in Canada](#)

NRCan will not assume responsibility for proposals directed to any other location.

The onus is on the Bidder to ensure that the bid is submitted correctly using CPC Connect service. Not complying with the instructions may result in NRCan's inability to ascertain reception date and/or to consider the bid prior to contract award. Therefore, NRCan reserves the right to reject any proposal not complying with these instructions.

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

## **2.3 Former Public Servant**

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

### **Definitions**

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

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



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

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

### **Former Public Servant in Receipt of a Pension**

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

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

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

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

### **Work Force Adjustment Directive**

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

If so, the Bidder must provide the following information:

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

## **2.4 Enquiries - Bid Solicitation**

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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**

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 **ten (10)** calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **2.7 Basis for Canada's Ownership of Intellectual Property**

Natural Resources Canada has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada, on the following reasons: as set out in the [Policy on Title to Intellectual Property Arising Under Crown Procurement Contracts](#)

1. Where the main purpose of the Crown Procurement Contract, or the deliverables contracted for, is:
  - 4.3 To deliver a not-yet fully developed component or subsystem that will be incorporated into a complete system at a later date, as a prerequisite to the planned transfer of the complete system to the private sector, through licensing or assignment of ownership, for the purposes of Commercial Exploitation.

## **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.





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## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

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

Canada requests that the Bidder submits its bid in separately saved documents as follows:

- Section I: Technical Bid
- Section II: Financial Bid
- Section III: Certifications
- Section IV: Page one completed and signed.

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

**Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.**

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

- 1) Include all environmental certification(s) relevant to your organization (e.g., ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.)
- 2) Include all environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (e.g., Forest Stewardship Council (FSC), ENERGYSTAR, etc.)

#### Section I: Technical Bid

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

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

#### Section II: Financial Bid

**3.1.1** Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Appendix "B".

#### 3.1.2 Exchange Rate Fluctuation

[C3011T \(2013-11-06\), Exchange Rate Fluctuation](#)

#### Section III: Certifications

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



## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

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

#### 4.1.1 Technical Evaluation

Mandatory and point rated technical evaluation criteria are included in Appendix "A" – Evaluation Criteria.

### 4.2 Basis of Selection

#### 4.2.1 Highest Combined Rating of Technical Merit (70%) and Price (30%)

To be declared responsive, a bid must:

- a. comply with all the requirements of the bid solicitation; and
  - b. meet all mandatory criteria.
2. Bids not meeting (a) or (b) will be declared non-responsive.
  3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.
  4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.
  5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%.
  6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
  7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equal 135 and the lowest evaluated price is \$45,000 (45).

Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)				
		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Bid Evaluated Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	$115/135 \times 70 = 59.63$	$89/135 \times 70 = 46.15$	$92/135 \times 70 = 47.70$
	Pricing Score	$45/55 \times 30 = 24.55$	$45/50 \times 30 = 27$	$45/45 \times 30 = 30$
Combined Rating		84.18	73.15	77.70
Overall Rating		1st	3rd	2nd



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## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

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

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

### **5.1 Certifications Required with the Bid**

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

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the 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.

#### **5.1.2 Additional Certifications Required with the Bid**

##### **5.1.2.1 Indigenous Designation**

Who is eligible?

An Indigenous business can be:

- a band as defined by the Indian Act
- a sole proprietorship
- a limited company
- a co-operative
- a partnership
- a not-for-profit organization

in which Indigenous persons have at least 51% ownership and control.

An Indigenous business can also be a joint venture consisting of 2 or more Indigenous businesses or an Indigenous business and a non-Indigenous business, provided that the Indigenous business or businesses have at least 51% ownership and control of the joint venture.

In instances where 1 or more Indigenous businesses, as defined under the rules of PSIB, are involved in a contract with 1 or more non-Indigenous businesses or individual contractors, 33% of the total monetary value of the work contracted for must be performed by Indigenous businesses.

The bidder must certify in its submitted bid that it is an Indigenous business, or a joint venture constituted as described above.

☐ Our Company is NOT an Indigenous Firm

☐ Our Company is an Indigenous Firm, as identified above.



## 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

#### List of Names for Integrity Verification Form (PWGSC-TPSGC 708E (2024-05-24))

Section 13 of the [Ineligibility and Suspension Policy](#) (the Policy) requires suppliers to provide a list of names for verification when submitting a bid or offer.

**Regardless of a supplier's status under the Policy, this is a mandatory requirement for the award of a contract or real property agreement to which the Policy applies.**

The list of names differs depending on the supplier's organizational structure, as listed below. The following names must be provided for verification:

- For a sole proprietor, the name of the owner
- For a private corporation, the names of all directors and the names of all individuals or entities that hold 5% or more of ownership
- For a public corporation, the names of all directors
- For a non-profit, the names of all directors
- For a general partnership, the names of all of the partners
- For limited partnerships (LP) and limited liability partnerships (LLP):
  - the names of all the general partners, in addition:
    - if the general partner is a public or non-profit corporation, the names of all directors
    - if the general partner is a private corporation, the names of all of the directors as well as the names of all individuals or entities that hold 5% or more of ownership
- For a trust, the names of the trustee(s):
  - if the trustee is a public or non-profit corporation, the names of all directors must also be included
  - if the trustee is a private corporation, the names of all of the directors as well as the names of all individuals or entities that hold 5% or more of ownership

Failure to submit this information with an offer, where required, will render the offer non-compliant, or the supplier otherwise disqualified for award of a contract or real property agreement.

**Fields marked with an asterisk (\*) are mandatory.**

#### Privacy statement

The personal information is collected pursuant to the [Criminal Code of Canada](#), section 750(3), the [Financial Administration Act](#), paragraph 42(1)(c), the [Department of Public Works and Government Services Act](#) and in accordance with the [Ineligibility and Suspension Policy](#). The personal information will be used by the Departmental Oversight Branch of Public Services and Procurement Canada for the purpose of enhancing the integrity of the contracting process. The personal information is described in the Personal Information Bank, [PWGSC PPU 184 - Integrity Assessment Program](#). Your personal information is protected, used, and disclosed in accordance with the



**Privacy Act.** Under the *Privacy Act*, you have the right to access and correct your personal information, if erroneous or incomplete. The personal information provided in this process will be retained for a period of seven years after the last administrative action, and then destroyed.

If you require clarification about this privacy notice, you may contact Public Services and Procurement Canada's Access to Information and Privacy Directorate by email at [TPSGC.ViePrivee-Privacy.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.ViePrivee-Privacy.PWGSC@tpsgc-pwgsc.gc.ca). If you are not satisfied with the response to your privacy concern or if you want to file a complaint about the handling of your personal information, you may wish to contact the [Office of the Privacy Commissioner of Canada](#).

#### Information to provide

##### Supplier information

Legal name \*

Supplier's procurement business number

Solicitation or transaction number \*

Date of bid, offer submission or closing date of Invitation to Offer (YYYYMMDD) \*

##### Organizational structure \*

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Sole proprietor  |
| <input type="checkbox"/> | Private corporation  |
| <input type="checkbox"/> | Public corporation   |
| <input type="checkbox"/> | Non profit corporation   |
| <input type="checkbox"/> | General partnerships   |
| <input type="checkbox"/> | Limited partnerships (LP) and Limited Liability Partnerships (LLP) |
| <input type="checkbox"/> | Trust  |

##### Official business address \*

- |                          |                       |
|--------------------------|-----------------------|
| <input type="checkbox"/> | Canadian address      |
| <input type="checkbox"/> | International address |

##### Canadian address

Post office box or civic (street) address \*

City/Town \*

Province/Territory \*

Postal code (A9A9A9) \*

##### International address

Post office box or civic (street) address \*

City/Town \*

Province/State/Region \*

Postal/Zip code \*

Country \*

##### Name of owner

Name \*

##### Name of Trustees

Name 1 \*



Name 2
Name 3
<b>Names of Partners</b>
Name 1 *
Name 2
Name 3
<b>Names of individuals or entities that hold 5% or more of ownership (if applicable)</b>
Name 1
Name 2
Name 3
<b>Names of all Directors (if applicable)</b>
Name 1
Name 2
Name 3
<b>DECLARATION</b>
<p>I, <i>(insert name *)</i> _____ <i>(Insert position*)</i> _____ of <i>(insert supplier's name *)</i> _____</p> <p>declare that the information provided in this form is, to the best of my knowledge and belief, true, accurate and complete. I am aware that failing to provide the list of names within the prescribed time will result in my exclusion from the contract award process. I am aware that after contract award I must inform the Registrar of Ineligibility and Suspension within 10 working days of any changes to the list of names submitted.</p> <p>_____ Signature *</p> <p>_____ Date *</p>

### 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.

### 5.2.4 Additional Certifications Precedent to Contract Award



#### 5.2.4.1 Former Public Servant

<b>Former Public Servants</b>  See the Article in Part 2 of the bid solicitation entitled Former Public Servant for a definition of "Former Public Servant".	<p>Is the Bidder a FPS in receipt of a pension as defined in the bid solicitation?</p> <p>Yes <input type="checkbox"/>    No <input type="checkbox"/> If yes, provide the information required by the Article in Part 2 entitled "Former Public Servant"</p>
	<p>Is the Bidder a FPS who received a lump sum payment under the terms of the Work Force Adjustment Directive?</p> <p>Yes <input type="checkbox"/>    No <input type="checkbox"/> If yes, provide the information required by the Article in Part 2 entitled "Former Public Servant"</p>

#### **SIGNATURE for CERTIFICATION**

The Contractor certifies having read and understood the information included in the present document and acknowledges receipt.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Authorized Representative



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## **PART 6 – SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

### **6.1 Security Requirements**

There are no security requirements associated with this procurement.





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## 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" and the Contractor's technical bid entitled \_\_\_\_\_, dated \_\_\_\_\_. (*to be completed at contract award*)

### 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.

#### 7.2.1 General Conditions

[2035](#) (2022-12-01), General Conditions - Higher Complexity - Services, apply to and form part of the Contract. [If applicable, replace references to Public Works and Government Services Canada (PWGSC) with Natural Resources Canada (NRCan)]

#### 7.2.2 Supplemental General Conditions

The following clauses apply to and form part of this contract:

[4007](#) (2022-12-01), Canada to Own Intellectual Property Rights in Foreground Information apply to and form part of the Contract.

### 7.3 Security Requirements

7.3.1 There is no security requirement applicable to the Contract.

### 7.4 Term of Contract

#### 7.4.1 Period of the Contract

The period of the Contract is from date of Contract to **March 31, 2026**, inclusive.

### 7.5 Authorities

#### 7.5.1 Contracting Authority (*to be filled out at contract award*)

The Contracting Authority for the Contract is:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Natural Resources Canada  
Procurement Services Unit

Address: \_\_\_\_\_

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_\_

E-mail address: \_\_\_\_\_

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 or Technical Authority

The Project Authority for the Contract 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.

### 7.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_  
E-mail address: \_\_\_\_\_

## 7.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2019-01](#) of the Treasury Board Secretariat of Canada.

## 7.7 Payment

### 7.7.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in in Annex B for a cost of \$ \_\_\_\_\_. Applicable Taxes are extra.

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

### 7.7.2 Method of Payment - Milestone Payments

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.



## 7.8 Invoicing Instructions

Invoices shall be submitted using **the following method**:

E-mail:

[Invoicing-Facturation@nrcan-rncan.gc.ca](mailto:Invoicing-Facturation@nrcan-rncan.gc.ca)

**Note:** Attach "PDF" file. No other formats will be accepted

Invoices and all documents relating to a contract must be submitted on the Contractor's own form and shall bear the Contract number: \_\_\_\_\_

**Invoicing Instructions to suppliers:** <http://www.nrcan.gc.ca/procurement/3485>

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

### 7.10 Applicable Laws

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

### 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 – 4007 (2022-12-01) Canada to own intellectual property rights in Foreground Information;
- (c) the general conditions - 2035 (2022-12-01) - General conditions: Higher Complexity - Services;
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_.

### 7.12 Insurance - No Specific Requirement

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.

### 7.13 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**

### **SW.1.0 TITLE**

Analysis of Mine Tailings for CO<sub>2</sub> Sequestration in Canada

### **SW.2.0 BACKGROUND**

As outlined in the Paris climate agreement, avoiding the worst impacts of global warming will require a dramatic reduction in carbon dioxide (CO<sub>2</sub>) emitted into the atmosphere. Carbon capture, utilization and storage (CCUS) is a promising climate-measure that will play a significant role in achieving net-zero by 2050. According to the International Energy Agency's (IEA) Net Zero Emissions roadmap, carbon capture, utilization and storage accounts for 6.1 GtCO<sub>2</sub>/year in global emissions reductions by 2050.

A CCUS process is a process that includes the capture of CO<sub>2</sub> either directly from the ambient air or from anthropogenic streams that would otherwise be released into the atmosphere, as well as the storage or use of the captured carbon.

In December 2023, Finance Canada tabled Bill C-59 in Parliament, which includes amendments to the Income Tax Act to implement the Carbon Capture, Utilization, and Storage Investment Tax Credit (CCUS-ITC). Now that the Bill has received Royal Assent, CCUS-ITC will be retroactively available from January 1, 2022 for qualified geological sequestration projects as well as for storage of CO<sub>2</sub> in concrete.

Recently, storage of CO<sub>2</sub> in mine tailings via mineralization has been identified as a potential storage pathway. Currently, this is not designated as an eligible use under the CCUS-ITC. The Government of Canada recognizes that the development and deployment of novel CCUS technologies will be critical for Canada to meet its stated GHG emissions reduction targets. However, the federal government requires a complete understanding of the potential of this new storage technique for long term storage and environmental impacts.

### **SW.3.0 OBJECTIVES**

NRCan is seeking a Service Provider to complete a research report that provides an overview and analysis of the potential of mineralized mine tailings for CO<sub>2</sub> storage. The report should be limited in scope to the environmental and industrial contexts of Canada but should consider mineralization technologies and practices in use globally. All information provided from external sources should be supported by valid references in APA format. Major assumptions and simplifications made in the analysis should be identified and justified.

The report should address the following key objectives:

1. Assess the permanence of CO<sub>2</sub> sequestration of all major sources of viable mine tailings in Canada.
  - a. Identify the Canadian mining operations that produce relevant mine tailings and could be potential users of CO<sub>2</sub> mineralization. Quantify the approximate amount of the relevant mine tailings produced.
  - b. Identify the affect of mine tailing composition on the performance of mine tailings as a CO<sub>2</sub> storage reservoir and describe the key mechanisms that impact tailings mineralization viability. These may include mineralization efficiency, reactivity, or porosity. Indicate CO<sub>2</sub> uptake on a mass basis for the various types of mine tailings.
  - c. Estimate the length of time it is reasonable to expect for CO<sub>2</sub> to remain sequestered in mineralized mine tailings under ideal conditions. Identify the necessary conditions and the management practices required to achieve this estimate.
  - d. Describe major factors and mechanisms by which the sequestration timeline could be negatively affected and indicate the relative risk potential for each.
2. Characterize contemporary mineralization technologies used for CO<sub>2</sub> sequestration in mine tailings and industrial waste materials.
  - a. Create block flow diagrams for each mineralization technology indicating the process steps



- and material or energy inputs and outputs. If the processes include extraction steps for other valuable minerals contained in the tailings, include these steps within the analysis. Assess each technology in its ideal context, i.e. do not interchange CO<sub>2</sub> supply or mineral type between mineralization technologies.
- b. Specify rates of reaction (i.e. rate of mineralization) for each of the mineralization processes identified.
  - c. Distinguish the technologies by the source of CO<sub>2</sub> (e.g. flue gas, pipeline quality, atmospheric) and the type of mineralization process (e.g., ex-situ mineralization, mine tailings vs. industrial waste, enhanced weathering, etc.). Identify the key factors and controlling mechanisms that can affect the performance of CO<sub>2</sub> mineralization processes including, but not limited to, temperature, pressure, pH, and particle size. Report ideal operating ranges for each parameter.
  - d. Identify companies and commercial technologies worldwide that are already utilizing this technology or have identified the potential for it in their operations.
  - e. Identify and assess the necessity for pre-treatment of either tailings/waste materials or CO<sub>2</sub> streams for sequestration processes.
  - f. Identify and assess the peripheral or ancillary equipment required for CO<sub>2</sub> mineralization of mine tailings and industrial waste products.
3. Conduct a consequential, gate-to-grave lifecycle assessment of the predominant mineralization technology with the highest use potential for the Canadian context. Use the functional unit of 1 ton CO<sub>2</sub> sequestered permanently. Use the ReCiPe 2016 method for midpoint and endpoint indicators.
    - a. Create a preliminary process model, including a simplified Process Flow Diagram and energy and material balance, for the mineralization facility. Assume the availability of CO<sub>2</sub> at the requisite input conditions for the process.
    - b. Report the energy demand of CO<sub>2</sub> sequestration in mine tailings.
    - c. Provide a general discussion for the non-greenhouse gas-related environmental and health impacts of CO<sub>2</sub> sequestration in tailings ponds. This includes a discussion of the reactions occurring within the ponds and their effects on pH (acid or base generation), environmental consequences of tailings mineralization, hydrogeological impacts, and the production of chemicals toxic to wildlife/vegetation.
    - d. Discuss the impact of CO<sub>2</sub> mineralization on the reclamation of tailing storage facilities.
  4. Identify and assess project costs (Capital Expense, Operating Expense, and levelized cost per tonne of CO<sub>2</sub> stored) for a CO<sub>2</sub> mineralization project using the predominant tailings mineralization technology installed in an average and suitable Canadian mine. Include all peripheral and pre-treatment equipment required. Assume a suitable source of CO<sub>2</sub> is co-located with the mine. Disaggregate costs by process stage (e.g., tailings transportation, pre-treatment, mineralization, disposal).
  5. Conduct a review of the regulatory framework of Canada's federal and provincial/territorial jurisdictions, including an analysis of measurement, monitoring, and verification (MMV) approaches.
    - a. Identify current MMV practices used in CO<sub>2</sub> mineralization projects, knowledge gaps, and opportunities for improving the regulatory feasibility of storage in mine tailings.
    - b. Analyze the current regulations in place for CO<sub>2</sub> mineralization in mine tailings, both in relevant Canadian jurisdictions and abroad, and identify the gaps that need to be addressed in Canada to develop an enabling regulatory framework.

## **SW.4.0 PROJECT REQUIREMENTS**

### **SW.4.1 Tasks, Deliverables, Milestones and Schedule**

The Project Authority will work to ensure that the contract is on budget and of an acceptable quality through working in close consultation with the Service Provider and through regular (monthly) status updates, requirements, and opportunities to review and comment on work as it is progressing. Note that NRCan review, where required, will be returned within 14 calendar days. Do not wait for NRCan feedback to continue subsequent project tasks.

The tasks required to complete the work shall include, but are not limited to the following:



1. Schedule and attend kick-off meeting.
2. Draft a work plan for the fulfilment of Project Objectives. Submit work plan for NRCan review.
3. Provide brief progress update via email every 21 calendar days throughout project, referring to original work plan schedule. Identify any revisions to project schedule.
4. Begin work on Project Objectives 1, 2, and 5.
5. Compile a list of Canadian mining operations and contemporary mineralization technologies, along with brief summaries of each, to NRCan for review and approval.
6. Schedule and attend interim project update meeting 1. Provide update on project progress.
7. Submit description and justification to NRCan for the choice of technologies to be used for the fulfillment of Project Objectives 3 and 4.
8. Schedule and attend interim project update meeting 2. Provide update on project progress.
9. Begin work on Project Objectives 3 and 4.
10. Prepare initial report draft, including table of contents, and submit to NRCan for review.
11. Schedule and attend interim project update meeting 3. Provide update on project progress.
12. Submit draft final report to NRCan for review. Include all block flow diagrams, process flow diagrams, LCA models, cost assessment models, and literature reviews as appendices or separate files. Provide additional 7 calendar days for NRCan review.
13. Incorporate or respond to any comments on the draft report from NRCan.
14. Schedule and attend project close-out meeting.

**Table 1: Project Schedule**

Task	Deliverable/Milestone	Schedule
<b>Task 1: Attend kick-off meeting</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 1</i>
<b>Tasks 2 &amp; 3: Draft and Submit Work Plan, begin to submit progress emails</b>	<ul style="list-style-type: none"><li>Work plan</li><li>Progress update emails begin.</li></ul>	<i>Week 2</i>
<b>Task 4: Begin work on Project Objectives 1, 2, and 5</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 2</i>
<b>Task 5: Submit list of mining operations and technologies</b>	<ul style="list-style-type: none"><li>List of Canadian mining operations and contemporary mineralization technologies submitted for NRCan review</li></ul>	<i>Week 8</i>
<b>Task 6: Interim Project Update Meeting 1</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 12</i>
<b>Task 7: Submit technology choice justification</b>	<ul style="list-style-type: none"><li>Description and justification of choice for technologies to be used for Project Objectives 3 and 4 submitted for NRCan review</li></ul>	<i>Week 16</i>
<b>Task 8: Interim Project Update Meeting 2</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 16</i>
<b>Task 9: Begin work on Project Objectives 3 and 4</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 16</i>
<b>Task 10: Submit Initial Report Draft</b>	<ul style="list-style-type: none"><li>Initial report draft, including table of contents, submitted for NRCan review</li></ul>	<i>Week 20</i>



Task	Deliverable/Milestone	Schedule
<b>Task 11: Interim Project Update Meeting 3</b>	<ul style="list-style-type: none"><li>None</li></ul>	<i>Week 23</i>
<b>Task 12: Submit Draft Final Report</b>	<ul style="list-style-type: none"><li>Draft final report addressing all Project Objectives submitted for NRCan review</li><li>All relevant block flow diagrams, process flow diagrams, LCA models, cost assessment models, and literature reviews submitted for NRCan review</li></ul>	<i>Week 26</i>
<b>Task 13: Submit Final Report</b>	<ul style="list-style-type: none"><li>Final report, incorporating NRCan revisions in response to Task 11, submitted</li></ul>	<i>Week 32</i>
<b>Task 14: Project close-out meeting</b>	<ul style="list-style-type: none"><li>Project close-out meeting complete</li></ul>	<i>Week 33</i>

#### **SW.4.2 Reporting Requirements**

As defined in the requirements outlined in Section SW.4.1, the contractor is required to provide updates on the status of the project by email every 21 calendar days.

#### **SW.4.3 Method and Source of Acceptance**

Ensure that all deliverables are provided as electronic documents with accessible formatting as per government guidelines (<https://crtc.gc.ca/eng/archive/acces.htm> and <https://a11y.canada.ca/en/guides/office2016/>), including but not limited to:

- Use an easily-readable, sans-serif font that is at least 11 point (for print-style documents) or 18 point (presentations)
- Using a glossary to define acronyms, terms or jargon needed throughout the file
- Using text descriptions for images
- Using software application's heading styles
- Using graphics only to enhance what is already provided in text

All deliverables and services rendered under any contract are subject to inspection by the Project Authority.

The Project Authority shall have the right to reject any deliverables that are not considered satisfactory or require their correction before payment will be authorized.

#### **SW.5.0 OTHER TERMS AND CONDITIONS OF THE SOW**

##### **SW.5.1 Contractor's Obligations**

In addition to the objectives outlines in Section 3 and the obligations outlined in this Statement of Work, the Contractor shall:

- Submit all written reports in electronic files compatible with Microsoft Office and/or PDF;
- Supply other deliverables or results in the format(s) identified and agreed upon by the Project Authority and the Service Provider;
- Supply copies of any raw data, methodological notes, analysis and results associated with the project, but are not part of the core deliverables. (For example, supporting analysis used to develop a narrative or infographic);
- Attend meetings virtually with OERD or participate in teleconferences as required;
- Provide updates on the status of the project by email every 21 calendar days;

*In satisfying the requirements of this agreement, the Recipient is encouraged to comply with the provisions and intent of the NRCan Scientific Integrity Policy (SIP) and to discharge its contractual obligations in support of research, science, or related activities in a manner consistent with all relevant NRCan SIP provisions. For more information on the Scientific Integrity Policy, please visit the NRCan website at: <https://www.nrcan.gc.ca/scientific-integrity/21665#a20>*

##### **SW.5.2 NRCan's Obligations**





In addition to the obligations outlined in this Statement of Work, NRCan shall:

1. Provide access to a staff member who will be available to coordinate activities
2. Provide comments on draft reports within 14 calendar days, with the exception of the final draft report deliverables, which will be provided in 21 calendar days, and/or,
3. Provide clarification in the interpretation of Project Objectives and Tasks.

*Natural Resources Canada is committed to making our Department more inclusive for everyone and fostering an equitable workplace culture that values diversity and creates an environment that is welcoming and rewarding for all. We encourage the businesses that work with us to reflect these values. More information can be found at:*

<https://www.canada.ca/en/government/publicservice/wellness-inclusion-diversity-public-service/diversity-inclusion-public-service2.html>

#### **SW.5.4 Location of Work, Work Site and Delivery Point**

The work will be conducted by the contractor on their premises. Deliverables will be received by the Project Authority in Ottawa, Ontario.

#### **SW.5.5 Language of Work**

All communication with the project team will be in English. All deliverables are to be delivered in English.

#### **SW.6.0 APPLICABLE DOCUMENTS AND GLOSSARY**

##### **SW.6.1 Acronyms**

CCUS: Carbon capture, utilization, and storage

IEA: International Energy Agency

ITC: Investment Tax Credit

MMV: measurement, monitoring, and verification

##### **SW.6.2 Glossary of terms**

Term	Definition
CO <sub>2</sub> Mineralization	A process by which carbon dioxide (CO <sub>2</sub> ) becomes a solid mineral, such as a carbonate.
Mine Tailings	The mined material, water, and reagents remaining after the extraction of the valuable fraction of the ore.
Industrial Waste / By-product	Material produced in a chemical or industrial process that is ancillary to the production of the main product(s). For the purposes of this project, only alkaline wastes / by-products with the capacity to react with CO <sub>2</sub> to produce carbonates should be considered.
Mine Tailings Management	An industrial practice involving the confinement of mine tailings to provide safe, long-term disposal. More information can be found at this link: <a href="https://www.nrcan.gc.ca/tailings-management">Tailings Management at NRCan (canada.ca)</a> .
Lifecycle Assessment	A standardized process by which the environmental impacts of a product or service are calculated in terms of a functional unit. The standard practice for Lifecycle Assessment can be found in ISO 14040:2006.
Gate to Grave	A Lifecycle Assessment term that indicates the boundaries of the assessment. "Gate" indicates that the starting boundary of the product system does not begin at the "cradle" for all product flows. "Grave" indicates that all product flows produced by the good or service must terminate at their final location. For the purposes of this project, the "Gate" for mine tailings is after their production at the mine site. For CO <sub>2</sub> , the "Gate" may be at the point in which it is transported to the mineralization facility, or the point at which it is captured.



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## **ANNEX “B” BASIS OF PAYMENT**

(To be completed at contract award)



## APPENDIX "A" - EVALUATION CRITERIA

### **Mandatory Technical Criteria**

Bidders are advised to address these criteria in the following order and in sufficient depth in their proposals to enable a thorough assessment. Canada's assessment will be based solely on the information contained within the proposal. Canada may confirm information or seek clarification from bidders.

Bidders are advised that only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the criteria will not be considered demonstrated for the purpose of this evaluation.

The Bidder should provide complete details as to where, when (month and year) and how (through which activities/ responsibilities) the stated qualifications/experience were obtained. Experience gained during formal education shall not be considered work experience. All criteria for work experience shall be obtained in a legitimate work environment as opposed to an educational setting. Co-op terms are considered work experience provided they are related to the required services.

Bidders are also advised that the month(s) of experience listed for a project whose time frame overlaps that of another referenced project will only be counted once. For example: project one time frame is July 2001 to December 2001; project two time frame is October 2001 to January 2002; the total months of experience for these two project references is seven (7) months.

### **1. Technical Criteria**

#### **1.1 Mandatory Evaluation Criteria**

The Mandatory Criteria listed below will be evaluated on a simple pass/fail basis. Proposals which fail to meet the mandatory criteria will be deemed non-responsive.

Criterion ID	Mandatory Criteria	Proposal Page #	Pass/Fail
<b>M1</b>	<p>The Bidder <b>MUST</b> provide a <b>resource</b> that has worked on at least three (3) CO<sub>2</sub> mineralization of mine tailings projects completed between <b>January 1<sup>st</sup>, 2010</b>, and the bid solicitation closing date.</p> <p>The bidder <b>MUST</b> provide the following information for each of the 3 required projects:</p> <ol style="list-style-type: none"><li><b>1. Project Name</b></li><li><b>2. Project Summary</b></li><li><b>3. Project Start and Completion Dates, including month and year</b></li><li><b>4. Contact Name and Contact Information (references**)</b></li></ol> <p>*Only ten (10) pages submitted for the resource will be evaluated to fulfill criteria M1 and R1. **References may be contacted to confirm the information provided.</p>		



Criterion ID	Mandatory Criteria	Proposal Page #	Pass/Fail
M2	<p>The Bidder <b>MUST</b> provide a <b>second resource</b>, separate of the resource provided for <b>M1</b>, that has worked on at least three (3) mine tailings management projects* completed between <b>January 1<sup>st</sup>, 2010</b>, and the bid solicitation closing date.</p> <p>The bidder <b>MUST</b> provide the following information** for each of the 3 required projects:</p> <ol style="list-style-type: none"><li>1. <b>Project Name</b></li><li>2. <b>Project Summary</b></li><li>3. <b>Project Start and Completion Dates, including month and year</b></li><li>4. <b>Contact Name and Contact Information (references***)</b></li></ol> <p>*A definition for mine tailings management can be found at this link: <a href="http://Tailings Management at NRCan (canada.ca)">Tailings Management at NRCan (canada.ca)</a>.</p> <p>**Only ten (10) pages submitted for the resource will be evaluated to fulfill criteria M2 and R2.</p> <p>***References may be contacted to confirm the information provided.</p>		
M3	<p>The Bidder <b>MUST</b> provide a work plan for fulfilling the Statement of Work requirements. The work plan will be further evaluated under criterion R5.</p>		

## 1.2 Evaluation of rated criteria

The criteria contained herein will be used by Canada to evaluate each proposal that has met all of the mandatory criteria.

Criterion ID	Point Rated Technical Criteria	Maximum Points	Proposal Page #
R1	<p>Points will be awarded for additional experience of the bidder's <b>same proposed resource</b> as requested in <b>M1</b>, on projects related to the <b>CO<sub>2</sub> mineralization of mine tailings and/or industrial wastes/by-products*</b> completed between <b>January 1<sup>st</sup>, 2010</b>, and the bid solicitation closing date.</p> <p>Each additional project, over the three (3) requested in M1, that meets the requirements of this criterion will be awarded 1 point. A maximum of 10 additional projects will be evaluated for a maximum of 10 points. Projects that were submitted for M1 will not be eligible to receive points for this criterion.</p> <p>To demonstrate this additional experience, provide the following information** for each project:</p> <ol style="list-style-type: none"><li>1. <b>Project Name</b></li><li>2. <b>Project Summary</b></li><li>3. <b>Project Start and Completion Dates</b></li><li>4. <b>Contact Name and Contact Information (references***)</b></li></ol> <p>*Note that industrial waste/by-product mineralization projects should not be submitted to fulfill criterion M1.</p> <p>**Only ten (10) pages submitted for the resource will be evaluated to fulfill criteria M1 and R1.</p>	10	



Criterion ID	Point Rated Technical Criteria	Maximum Points	Proposal Page #
	***References may be contacted to confirm the information provided.		
R2	<p>Points will be awarded for additional experience of the bidder's <b>same proposed resource</b>, as requested in <b>M2</b>, on projects related to <b>mine tailings management</b> completed between <b>January 1st, 2010</b>, and the bid solicitation closing date.</p> <p>Each additional project, over the three (3) requested in M2, that meets the requirements of this criterion will be awarded 1 point. A maximum of 10 additional projects will be evaluated for a maximum of 10 points. Projects that were submitted for M2 will not be eligible to receive points for this criterion.</p> <p>To demonstrate this additional experience, provide the following information* for each project:</p> <ol style="list-style-type: none"><li>1. <b>Project Name</b></li><li>2. <b>Project Summary</b></li><li>3. <b>Project Start and Completion Dates</b></li><li>4. <b>Contact Name and Contact Information (references**)</b></li></ol> <p>*Only ten (10) pages submitted for the resource will be evaluated to fulfill criteria M2 and R2. **References may be contacted to confirm the information provided.</p>	10	
R3	<p>Points will be awarded for experience of the <b>bidding organization</b> on <b>CO<sub>2</sub> mineralization of mine tailings, CO<sub>2</sub> mineralization of industrial wastes/by-products, or mine tailings management projects</b> completed between <b>January 1st, 2010</b>, and the bid solicitation closing date.</p> <p>Each project that meets the requirements of this criterion will be awarded 1 point. A maximum of 10 projects will be evaluated for a maximum of 10 points. Projects that were submitted under M1, M2, R1, or R2 may only be resubmitted for this criterion if the bidding organization was the contract holder for those projects.</p> <p>To demonstrate this experience, provide projects with the following information* for each project:</p> <ol style="list-style-type: none"><li>1. <b>Project Name</b></li><li>2. <b>Project Summary</b></li><li>3. <b>Project Start and Completion Dates</b></li><li>4. <b>Contact Name and Contact Information (references**)</b></li></ol> <p>*Only ten (10) pages submitted for the scope described in section R3 will be evaluated for the fulfillment of criterion R3. **References may be contacted to confirm the information provided.</p>	10	



Criterion ID	Point Rated Technical Criteria	Maximum Points	Proposal Page #
R4	<p>Points will be awarded for experience of the <b>bidding organization</b> on the <b>lifecycle assessment, cost assessment, or regulatory review</b> of projects concerning any of the topics of <b>CO<sub>2</sub> mineralization, mine tailings management, CO<sub>2</sub> capture, CO<sub>2</sub> storage, or CO<sub>2</sub> transportation</b> completed between <b>January 1<sup>st</sup>, 2010</b>, and the bid solicitation closing date.</p> <p>Each project that meets the requirements of this criterion will be awarded 1 point. A maximum of 10 projects will be evaluated for a maximum of 10 points. Projects that were submitted under M1, M2, R1, or R2 may only be resubmitted to this criterion if the bidding organization was the contract holder for those projects.</p> <p>To demonstrate this experience, provide projects with the following information* for each project:</p> <ol style="list-style-type: none"><li>1. <b>Project Name</b></li><li>2. <b>Project Summary</b></li><li>3. <b>Project Start and Completion Dates</b></li><li>4. <b>Contact Name and Contact Information (references**)</b></li></ol> <p>*Only ten (10) pages submitted for the scope described in section R4 will be evaluated for the fulfillment of criterion R4. **References may be contacted to confirm the information provided.</p>	10	
R5	<p>The workplan requested in M3 will be further evaluated as follows:</p> <p>The workplan should address each of the <b>five (5) objectives</b> as stated in Section SW.3.0.</p> <p>Each of the five (5) objectives will receive a maximum of four (4) points, for a total maximum of 20 points.</p> <p>Points for each objective will be awarded as follows:</p> <ul style="list-style-type: none"><li>1 point - Text is included in the work plan that addresses the objective from the statement of work.</li><li>1 point - The text of the work plan describes how the objective will be met, including the resources, methods, or techniques that will be used.</li><li>1 point - The text of the work plan indicates the organization members that will be working on the objective.</li><li>1 point - A graphical or text-based timeline indicating the approximate length of time required to meet the objective is included.</li></ul>	20	



Criterion ID	Point Rated Technical Criteria	Maximum Points	Proposal Page #
R6	<p>The Bidders should demonstrate the following corporate activities they have implemented to promote anti-racism and diversity within their organisation:</p> <ol style="list-style-type: none"><li>The bidder has internally published policies or commitments on anti-racism and inclusiveness;</li><li>The bidder has publicly available organisational commitments to a diverse workforce;</li><li>The bidder's employees are mandated to take mandatory training on anti-racism</li><li>The bidder's employees are mandated to take unconscious bias training;</li><li>The bidder has developed internal staffing and/or recruitment strategies to increase representation of underrepresented groups in their workforce.</li></ol> <p>The bidder should provide details of the following activities. For activities described in a. and b. (policy and commitments), the bidder should provide copies of policy or commitment documents including their effective date. For activities described in c. and d. (training), the bidder should provide the name of the course and the service provider; if developed internally, a copy of the course outline. For activities described in e. (staffing), the bidder should provide copies of job posting, or other staffing/recruitment documents demonstrating compliance with the rated criteria.</p> <div><p>Maximum 1 point for each activity.</p><p>0 pts = the bidder does not address. 1 pts =The bidder has fully described the activity and provided supporting documents as evidence. 0.5 pts = The bidder has provided information on the existence of the activity but does not provide sufficient detail or supporting documents.</p></div>	5	
Total Points Available		65	



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## Glossary of Terms

Term	Definition
CO <sub>2</sub> Mineralization	A process by which carbon dioxide (CO <sub>2</sub> ) becomes a solid mineral, such as a carbonate.
Mine Tailings	The mined material, water, and reagents remaining after the extraction of the valuable fraction of the ore.
Industrial Waste / By-product	Material produced in a chemical or industrial process that is ancillary to the production of the main product(s). For the purposes of this project, only alkaline wastes / by-products with the capacity to react with CO <sub>2</sub> to produce carbonates should be considered.
Mine Tailings Management	An industrial practice involving the confinement of mine tailings to provide safe, long-term disposal. More information can be found at this link: <a href="https://www.nrcan.gc.ca/tailings-management">Tailings Management at NRCan (canada.ca)</a> .
Lifecycle Assessment	A standardized process by which the environmental impacts of a product or service are calculated in terms of a functional unit. The standard practice for Lifecycle Assessment can be found in ISO 14040:2006.
Gate to Grave	A Lifecycle Assessment term that indicates the boundaries of the assessment. "Gate" indicates that the starting boundary of the product system does not begin at the "cradle" for all product flows. "Grave" indicates that all product flows produced by the good or service must terminate at their final location. For the purposes of this project, the "Gate" for mine tailings is after their production at the mine site. For CO <sub>2</sub> , the "Gate" may be at the point in which it is transported to the mineralization facility, or the point at which it is captured.





## APPENDIX "B" - FINANCIAL BID PRESENTATION SHEET

### Firm Price - Milestone Payments

Bidder tendered all-inclusive firm price to perform the work is in Canadian funds, applicable taxes excluded. Any Travel and Living Expenses and other miscellaneous expenses must be included in the firm price.

The bidder must complete the schedule below indicating the firm proposed amounts for each step according to the indicated percentages:

Milestone #	Description of Milestone	Firm Price (Applicable Taxes Excluded)
1	10% of the total price upon completion of the finalized work plan (Tasks 1-3) as identified in the statement of work at Annex "A".	\$ _____
2	10% of the total price upon completion of the List of Canadian mining operations and contemporary mineralization technologies (Task 4-5) as identified in the statement of work at Annex "A".	\$ _____
3	10% of the total price upon completion of technology choice justification (Tasks 6-7) as identified in the statement of work at Annex "A".	\$ _____
4	20% of the total price upon completion of the initial draft report (Task 8-10) as identified in the statement of work at Annex "A".	\$ _____
5	40% of the total price upon completion of the final draft report and all relevant block flow diagrams, process flow diagrams, LCA models, cost assessment models, and literature reviews (Task 11-12) as identified in the statement of work at Annex "A".	\$ _____
6	10% of the total price upon completion of the final report (Task 13 & 14) as identified in the statement of work at Annex "A".	\$ _____
Total Firm Price*		\$ _____

\*The total firm price in the table above will be used as the evaluated price indicated in section 4.2.1.