



<p>RETURN BIDS TO: RETOURNER LES SOUMISSIONS À: Bid Receiving - Environment and Climate Change Canada / Réception des soumissions – Environnement et Changement Climatique Canada</p> <p>Hard Copy :</p> <p>Procurement & Contracting Services Environment and Climate Change Canada 17th Floor, 45 Alderney Drive, K'jipuktuk (Dartmouth) NS B2Y 2N6</p> <p>OR</p> <p>Electronic Copy: ec.soumissions-bids.ec@canada.ca</p> <p>BID SOLICITATION TO : ENVIRONMENT AND CLIMATE CHANGE CANADA</p> <p>We offer to perform or provide to Canada the services detailed in the document including any attachments and annexes, in accordance with the terms and conditions set out or referred to in the document, at the price(s) provided.</p> <p>SOUMISSION À: ENVIRONNEMENT ET CHANGEMENT CLIMATIQUE CANADA</p> <p>Nous offrons d'effectuer ou de fournir au Canada, aux conditions énoncées ou incluses par référence dans le document incluant toutes pièces jointes et annexes, les services détaillés dans le document, au(x) prix indiqué(s).</p>	<p>Title – Titre Statistical Downscaling of Global Climate Model Projections</p>		
	<p>EC Bid Solicitation No. /SAP No. – N° de la demande de soumissions EC / N° SAP 5000048833</p>		
	<p>Date of Bid solicitation (YYYY-MM-DD) – Date de la demande de soumissions (AAAA-MM-JJ) 31 July 2020</p>		
	<p>Bid Solicitation Closes (YEAR-MM-DD) - La demande de soumissions prend fin (AAAA-MM-JJ) at – à 2:00 P.M. (14h00) on – le September 10, 2020</p>		<p>Time Zone – Fuseau horaire Eastern</p>
	<p>F.O.B – F.A.B Destination</p>		
	<p>Address Enquiries to - Adresser toutes questions à Tim Pelletier, Procurement Officer Timothy.pelletier@canada.ca</p>		
	<p>Telephone No. – N° de téléphone</p>		<p>Fax No. – N° de Fax</p>
	<p>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ) March 31, 2023</p>		
	<p>Destination - of Services / Destination des services Ottawa Ontario</p>		
	<p>Security / Sécurité</p>		
	<p>Vendor/Firm Name and Address - Raison sociale et adresse du fournisseur/de l'entrepreneur</p>		
	<p>Telephone No. – N° de téléphone</p>		<p>Fax No. – N° de Fax</p>
<p>Name and title of person authorized to sign on behalf of Vendor/Firm: (type or print) / Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</p>			
<p>Signature</p>		<p>Date</p>	

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[Attachment 1 to Part 3, Financial Bid Presentation Sheet](#)

[Attachment 1 to Part 4, Mandatory Technical Criteria And Point Rated Technical Criteria](#)

TITLE

Statistical Downscaling of Global Climate Model Projections

PART 1 - GENERAL INFORMATION

1. Introduction

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

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Attachments include Financial Bid Presentation Sheet, Mandatory Technical Criteria And Point Rated Technical Criteria, Former Public Servant Declaration and Integrity Regime.

The Annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Schedule of Milestones, and any other annexes.

2. Summary

Environment and Climate Change Canada has a requirement for statistical downscaling of global climate model projections as detailed in the Statement of Work, Annex "A" to the bid solicitation. The period of the contract is from award date to March 31, 2023.

Bidders must provide a list of names, or other related information as needed, pursuant to section 01 Integrity Provisions of Standard Instructions 2003 (2019-03-04).

For services requirements, bidders in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the bid solicitation.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

This procurement is not subject to Comprehensive Land Claims Agreement(s) (CLCAs).

This procurement is not set aside under the federal government's Procurement Strategy for Aboriginal Business.

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

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

The 2003 (2019-03-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The standard instructions 2003 are modified as follows:

Under “Text” at 02:

Delete: “Procurement Business Number”

Insert: “Deleted”

At Section 02 Procurement Business Number

Delete: In its entirety

Insert: “Deleted”

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

Delete: In its entirety

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

At Section 06 Late Bids:

Delete: “PWGSC”

Insert: “Environment Canada”

At Section 07 Delayed Bids:

Delete: “PWGSC”

Insert: “Environment Canada”

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

Delete: In its entirety

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

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

Delete: In their entirety

Insert: “Deleted”

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

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

Insert: “Deleted”

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

Delete: In its entirety

Insert: “Deleted”

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

Delete: “sixty (60) days”

Insert: “one hundred and twenty (120) days”

2. Submission of Bids

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

Former Public Servant – Competitive Bid

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

Definitions

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

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

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

“pension” means a pension or annual allowance paid under the *Public Service Superannuation Act* (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the *Supplementary Retirement Benefits Act*, R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the

Canadian Forces Superannuation Act, R.S., 1985, c.C-17, the Defence Services Pension Continuation Act, 1970, c.D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c.R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c.R-11, the Members of Parliament Retiring Allowances Act, R.S., 1985, c.M-5, and that portion of pension payable to the Canada Pension Plan Act, R.S., 1985, c.C-8.

Former Public Servant in Receipt of a Pension

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

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

1. name of former public servant;
2. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

Work Force Adjustment Directive

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

If so, the Bidder must provide the following information:

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

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

3. Enquiries - Bid Solicitation

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

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

4. Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

- Section I:** Technical Bid (2 hard copies) OR 1 soft copies in PDF format by email attachment.
- Section II:** Financial Bid (2 hard copies) OR 1 soft copies in PDF format by email attachment.
- Section III:** Certifications in 1 hard copy each OR 1 soft copies in PDF format by email attachment.
- Section IV:** Additional Information in 2 hard copies OR 1 soft copies in PDF format by email attachment.

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

In absence of hard copy, the soft copy will prevail.

Prices must appear in the financial bid only. Prices shall not be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

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

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

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

Note for electronic submission of bids:

In order to be considered, bids must be received no later than 1400h (2:00 p.m.) Eastern Time) on the date and time indicated on the cover page to herein as the "Closing Date." Bids received after the Closing Date will be considered non-responsive and will not be considered for contract award. Bids submitted by email must be submitted ONLY to the following email address:

Email Address: ec.soumissions-bids.ec@canada.ca

Attention: Tim Pelletier

Solicitation Number: 5000048833

Bidders should ensure that their name, address, Closing Date of the solicitation and Solicitation Number are clearly indicated in the body of their email. Bids and supporting information may be submitted in either English or French.

The total size of the email, including all attachments, must be less than 15 megabytes (MB). It is each Bidder's responsibility to ensure that the total size of the email does not exceed this limit.

Bids sent by fax will not be accepted.

It is important to note that emails systems can experience systematic delays and, at times, large attachments may cause systems to hold or delay transmission of emails. It is solely the Bidder's responsibility to ensure that the Contracting Authority receives a bid on time, in the mailbox that has been identified for bid receipt purposes. Date stamps for this form of transmission are not acceptable.

Section I: Technical Bid

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

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

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Attachment 1 to Part 3. The total amount of Applicable Taxes must be shown separately.

Bidders must submit their financial bid in Canadian funds and in accordance with the Financial Bid Presentation Sheet in Attachment 1 to Part 3. The total amount of Applicable Taxes must be shown separately.

Bidders must submit their prices and rates with FOB destination; Canadian customs duties and excise taxes included, as applicable; and Applicable Taxes excluded.

1.1 Price Breakdown

In their financial bid, the bidders are requested to provide a detailed breakdown of the price for the following elements for each milestone of the Work, as applicable:

- a. Professional fees: For each individual and (or) labour category to be assigned to the Work, the bidders should indicate: i) the firm hourly rate or the firm daily rate, inclusive of overhead and profit; and ii) the estimated number of hours or days, as applicable. The bidders should indicate the number of hours in one working day.
- b. The professional fees must include the total estimated cost of all travel and living expenses that may need to be incurred for:
 - i. Work described in Part 7, Resulting Contract of the bid solicitation required to be performed within the ____ (insert "National Capital Region (NCR)" or the applicable office in the region). The NCR is defined in the National Capital Act, R.S.C. 1985, c. N-4, S.2. The National Capital Act is available on the Justice Website: [http://laws-lois.justice.gc.ca/eng/acts/N-4/;](http://laws-lois.justice.gc.ca/eng/acts/N-4/)
 - ii. travel between the successful bidder's place of business and the NCR; and
 - iii. the relocation of resources
- c. to satisfy the terms of any resulting contract. These expenses cannot be charged directly and separately from the professional fees to any contract that may result from the bid solicitation.
- d. Materials and Supplies (if applicable): The bidders should identify each category of materials and supplies required to complete the Work and provide the pricing basis. The

Bidder should indicate, on a per category basis, whether the items are likely to be consumed during the performance of any resulting contract.

- e. Travel and Living Expenses (if applicable): The bidders should 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 without exceeding the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".
- f. Subcontracts (if applicable): The bidders should identify all of the proposed subcontractors and provide in their financial bid for each one a price breakdown.
- g. Other Direct Charges (if applicable): The bidders should identify all of the categories of other direct charges anticipated, such as long distance communications and rentals, providing the pricing basis for each and explaining the relevance to the work described in Part 7 of the bid solicitation.
- h. Applicable Taxes: The bidders should indicate the Applicable Taxes separately.

Bidders should include the following information in their financial bid:

- a. Their legal name; and
- b. The name of the contact person (including this person's mailing address, phone and facsimile numbers and email address) authorized by the Bidder to enter into communications with Canada with regards to their bid; and any contract that may result from their bid.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

ATTACHMENT 1 TO PART 3 - FINANCIAL BID PRESENTATION SHEET

The Bidder must complete this Financial Bid Presentation Sheet and include it in its financial bid.

The inclusion of volumetric data in this document does not represent a commitment by Canada that Canada's future usage of the services described in the bid solicitation will be consistent with this data."

Table 1 – Financial Bid Presentation

Deliverable No.	Description	Amount Take note of Part 4 (1.2.1)	Delivery Date
1.	The Contractor must submit the list of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the rationale for the selection of GCM simulations.		Within 2 months of the contract award date
2.	The Contractor must submit downscaled time series for half of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the progress achieved.		March 15, 2021
	FY 2020-21		
3.	The contractor must submit downscaled time series for an additional one-fourth of the CMIP6 simulations as outlined in Task 1, including a report documenting the progress achieved.		June 30, 2021
4.	The contractor must submit downscaled time series for the remaining one-fourth of the CMIP6 simulations as outlined in Task 1. The Contractor must also submit a report at the same time that documents findings from Task 2. This report should include: 1) a review of new statistical downscaling methods and potential target data that are relevant to this project, 2) rationale for the analyses and the use of subset of model simulations, 3) a recommendation for a new statistical downscaling method and target data.		September 30, 2021
5.	The Contractor must submit downscaled time series for one-third of the selected CMIP6 simulations based on new downscaling method and new target data, along with a progress report.		March 15, 2022
	FY 2021-2022		
6.	The Contractor must submit downscaled time series for an additional one-third of the selected CMIP6 simulations based on new downscaling method and new target data.		August 31, 2022

7.	The Contractor must submit downscaled time series for the remaining one-third CMIP6 simulations using the new downscaling method and the new target dataset.		January 15, 2023
8.	The Contractor must submit a final report that documents the process for all downscaling methods, rationales for the selection of statistical downscaling method, target dataset, and GCM simulations, and methods used to produce downscaled projections.		March 15, 2023
FY 2022-2023			

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

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

1.1 Technical Evaluation

Except where expressly provided otherwise, the experience described in the bid must be the experience of 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). The experience of the Bidder's affiliates (i.e. parent, subsidiary or sister corporations), subcontractors, or suppliers will not be considered.

Mandatory and point rated technical evaluation criteria are included in Attachment 1 to Part 4.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

The maximum funding available for the Contract resulting from the bid solicitation is

Fiscal Year 20/21 will be \$80 000.00 (Applicable Taxes extra),

Fiscal Year 21/22 will be \$110 000.00 (Applicable Taxes extra), and;

Fiscal Year 22/23 will be \$100 000.00 (Applicable Taxes extra).

Fiscal Year is defined as the period starting April 1st until end of March 31st.

Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

1.2.2 Evaluation of Price

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

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

$$\frac{\text{Lowest Compliant bid}}{\text{Bidders submitted total bid}} \times 40\% = \text{Evaluated Price}$$

1.2.3 The volumetric data included in the Financial Bid Presentation Sheet detailed in Attachment 1 to Part 3 are provided for bid evaluated price determination purposes only. They are not to be considered as a contract guarantee.

1.2.4 For bid evaluation and contractor(s) selection purposes only, the evaluated price of a bid will be determined in accordance with the Financial Bid Presentation Sheet detailed in Attachment 1 to Part 3.

2. Basis of Selection

2.1 Basis of Selection – Highest Combined Rating of Technical Merit and Price

To be declared responsive, a bid must:

- a) comply with all the requirements of the bid solicitation;
- b) meet all mandatory criteria (insert if applicable: and mandatory financial criteria);
- c) obtain the required minimum of twenty-three (23) points overall for the technical evaluation criteria which are subject to point rating;

- d) obtain the required minimum score of 60% for each criteria which are subject to point rating.

The rating is performed on a scale of thirty (30) points.

Bids not meeting (a) or (b) or (c) or (d) will be declared non-responsive.

The evaluation will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60% for the technical merit and 40% for the price.

To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60%.

To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40%.

For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

Table 1 – Example Basis of Selection
Highest Combined Rating Technical Merit (60%) and Price (40%)

	Bidder		
	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	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
Combined Rating	83.84	75.56	80.89
Overall Rating	1st	3rd	2nd

ATTACHMENT 1 TO PART 4 - TECHNICAL CRITERIA

1. Technical Criteria

1.1 Mandatory Technical Criteria

The Mandatory Technical Criteria listed below will be evaluated on a MET/DID NOT MEET basis. Bidders must demonstrate that they meet all mandatory technical criterion by providing a concise and detailed response to each of the mandatory technical criteria detailed below. The technical bid should address each of the criteria in the order in which they appear.

Simply stating that the mandatory technical criteria is met or complied with is not sufficient. Failure to demonstrate meeting one (1) or more of the mandatory criteria will result in the bid being deemed non-responsive and ineligible for further consideration and evaluation.

Bidders must submit all documentation with the bid by bid closing.

Table 1 - Mandatory Technical Criteria

Item Number	Description	Met/Not Met	Reference to Bid
M1	The bidders' proposed Project Manager must have a minimum of five (5) years' experience, in the past ten (10) years in development or selection of statistical downscaling methods. The proposal must demonstrate this experience by including a brief summary of all relevant studies/projects the resource has been involved in. In order to be considered, relevant dates must be included in the summary.		
M2	The bidders' proposed Project Manager must have authored at least two published reports or journal papers on the subject of statistical downscaling methods and applications. To demonstrate meeting this criteria, the proposal must list the number of reports or journals published, the date the studies were conducted and completed, and list all the publications.		
M3	The bidders' proposed Project Manager must have five (5) years' experience within the last ten (10) years experience applying statistical downscaling methods to Global Climate Model (GCM) outputs with gridded observational datasets. To demonstrate meeting this		

	criteria the proposal must include a resume of the Project Manager demonstrating how the experience applying statistical downscaling methods to GCM outputs has been obtained.		
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1.2 Point Rated Technical Criteria

Table 2 - Scoring Sheet for Point-Rated Technical Criteria

Item	Criteria	Maximum Points	Bidders' score
	Experience of Proposed Resource		
PR1	The bidders' proposed Project Manager demonstrates having more than five (5) years' experience in development or selection of statistical downscaling methods. This experience can be demonstrated by including a brief summary of all relevant studies/projects the resource has been involved in. In order to be considered, relevant dates must be included in the summary. 1 point for each additional year beyond 5 years to a maximum of 5 points	5	
PR2	The bidders' proposed Project Manager has authored more than two (2) published reports or journal papers on the subject of statistical downscaling methods and applications. To demonstrate meeting this criteria, the proposal must list the number of reports or journals published, the date the studies were conducted and completed, and list the publications. 1 point for each report or journal paper, to a maximum of 5 points	5	
	Understanding of Requirement		
PR3	The Bidder demonstrates their understanding of the requirement as per Annex A Statement of Work. To demonstrate this, the Bidder should include an introduction and description of the scope of the work, with a brief evaluation of the need and objectives of the work, the reasons for carrying it out, and the benefits to be derived by Environment and Climate Change Canada, see Part 3 Section I, above. A maximum of 5 points will be awarded for this criterion.	5	

	Proposed Approach and Methodology		
PR4	<p>The Bidder demonstrates a clear approach and methodology to meet the requirements of the study as detailed in Annex A - Statement of Work.</p> <p>To demonstrate they meet this requirement the bidder must include the following information:</p> <ol style="list-style-type: none"> 1. Proposed detailed schedule on how they will meet the deliverable (5 points). 2. Description of technical resources that will enable them to complete the work (5 points). <ol style="list-style-type: none"> a. To include staff experience and any technical hardware/software planned to be used 3. Identify potential problems and propose solutions that may arise during the conduct of the work (5 points). <p>A maximum of 15 points will be awarded for this criterion.</p>	15	
	Maximum Score	30	

PART 5 - CERTIFICATIONS

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

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

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

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions *2003 (OR insert 2004, as applicable)*. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

2. Additional Certifications Required Precedent to Contract Award

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

2.1 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.

2.2 Education and Experience

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

PART 6 - RESULTING CONTRACT

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

Title:

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 dated _____.

2. Standard Clauses and Conditions

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

3. General Conditions

2010B (2018-06-21), General Conditions - Professional Services (Medium Complexity), as modified below, apply to and form part of the Contract.

General conditions 2010B is modified as follows:

At Section 12 Transportation Costs

Delete: In its entirety

Insert: "Deleted"

At Section 13 Transportation Carriers" Liability

Delete: In its entirety.

Insert: "Deleted"

At Section 18, Confidentiality:

Delete: In its entirety

Insert: "Deleted"

Insert Subsection: "35 Liability"

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

At Section 19 Copyright

Delete: In its entirety

Insert: "1. In this section:

"Material" means anything that is created or developed by the Contractor as part of the Work under the Contract, and in which copyright subsists.

"Background Information" means all Intellectual Property that is not Foreground Information that is incorporated into the Work or necessary for the performance of the Work and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party;

"Foreground Information" means all Intellectual Property first conceived, developed, produced or reduced to practice as part of the Work under the Contract;

2. Material that is created or developed by the Contractor as part of the Work under the Contract belongs to the Contractor.

3. The Contractor grants to Canada a non-exclusive, perpetual, irrevocable, world-wide, fully-paid and royalty-free license to exercise all rights comprised in the Material, for any non-commercial government purposes. Canada may use independent contractors in the exercise of Canada's license pursuant to this clause.

4. At the request of the Contracting Authority, the Contractor must provide to Canada, at the completion of the Work or at such other time as the Contracting Authority may require, a written permanent waiver of moral rights as defined in the Copyright Act, R.S., 1985, c. C-42, in a form acceptable to the Contracting Authority, from every author that contributed to the Work. If the Contractor is an author, the Contractor permanently waives the Contractor's moral rights.

5. The Contractor also grants to Canada a non-exclusive, perpetual, irrevocable, world-wide, fully-paid and royalty-free license to use the Background Information to the extent that this information is required by Canada to exercise its rights to use the Material.

6. Copyright in any improvement, modification or translation of the Material made by or for Canada belongs to Canada. Canada agrees to reproduce the Contractor's copyright notice, if any, on all copies of the Material, and to acknowledge the Contractor's title to the copyright in the original Work on all copies of translations of the Material effected by or for Canada.

7. No restrictions other than those set out in this section must apply to Canada's use of the Material or of translated versions of the Material."

At Section 06 Subcontracts

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

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

4. Supplemental General Conditions

The following supplemental general conditions apply to and form part of the Contract:

4006 (2010-08-16), Contractor to own Intellectual Property Rights in Foreground Information

5. Term of Contract

5.1 Period of the Contract

The Work is to be performed during the period of _____ (fill in start date of the work) to _____ (fill in end date of the work).

6. Authorities

6.1 Contracting Authority

The Contracting Authority for the Contract is:

Tim Pelletier, CD, SCMP, CFSP
Procurement Officer
Procurement & Contracting Services
Environment and Climate Change Canada
17th Floor, 45 Alderney Drive, K'jipuktuk (Dartmouth) NS B2Y 2N6
Tel: 902-XXX-XXXX
Fax: 902-XXX-XXXX
Timothy.Pelletier@Canada.ca

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

6.2 Technical Authority

The Technical Authority for the Contract is: (to be provided at contract award)

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

6.3 Contractor's Representative

(To be completed at contract award)

7. 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: 2012-2 of the Treasury Board Secretariat of Canada.

8. Payment

This Section will be completed prior to contract award and is based on Financial Representation Sheet at Attachment 1 to Part 3, Financial Bid Presentation

8.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price of \$ _____ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

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

8.2 Limitation of Expenditure

- a) Canada's total liability to the Contractor under the Contract must not exceed \$ _____. Customs duties are included and the Applicable Taxes are extra.
- b) No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 1. when it is 75 percent committed, or
 2. four (4) months before the contract expiry date, or
 3. as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.

- c) 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.

9. Invoicing Instructions

9.1 Milestone Payment

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in Annex "B" of the Contract and the payment provisions of the Contract, up to 100 percent of the amount claimed and approved by Canada 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) the total amount for all milestone payments paid by Canada does not exceed one-hundred percent of the yearly total amount to be paid under the Contract;
- c) all such documents have been verified by Canada;
- d) all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

10. Certifications

10.1 Compliance

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

11. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario. (Or as specified in the bid).

12. 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. 4009 - Supplemental General Conditions (2013-06-27);
- C. 2010B General Conditions - Professional Services (Medium Complexity) 2018-06-21 as modified;
- D. Annex A, Statement of Work;
- E. Annex B, Basis of Payment;
- F. 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)).

13. Insurance

PWGSC SACC Manual clause G1005C - (2016-01-28) Insurance

ANNEX “A” - STATEMENT OF WORK

B. Background

The Climate Research Division (CRD) of Environment and Climate Change Canada has a mandate to provide Canadians with past and future climate change scientific information for climate impact assessments, adaptation planning and mitigation policies. This information is generated based on the use of climate observations, results from multiple global climate models (GCMs), and integrated analyses. There is a growing demand in Canada and internationally for GCM projections to be downscaled at high spatial resolutions. There are also many Canadian users who have scientific and other interests that span the Canada/US border, demanding information for North America.

CRD produced, by means of service contracts, statistically downscaled scenarios based on the simulations by the climate models that participated in the Coupled Model Intercomparison Project phase 5 (CMIP5) in 2015. These have been widely used and are currently available on Climate Change Data and Scenarios website (<http://climate-scenarios.canada.ca/?page=main>) and the Pacific Climate Impact Consortium’s climate change scenarios data portal (<https://www.pacificclimate.org/data/statistically-downscaled-climate-scenarios>). There have been recent developments in multiple fronts including the availability of new climate projections by the climate models participating in the Coupled Model Intercomparison Project phase 6 (CMIP6) and driven by new emission scenarios, new downscaling methods including these that maintain co-variability among variables, and better observational data products as target data. The objective of this project is to update the existing products that take advantage of these new developments and that can meet new and evolving needs.

CRD is seeking professional support to statistically downscale climate simulations generated from the CMIP6 data.

C. Objective

The objective of the work is to obtain professional support and provision of statistically downscaled simulations from the CMIP6 data models.

D. Scope

The Contractor is expected to provide new high-resolution downscaled climate change scenarios based on a selection of CMIP6 simulations in two stages:

1. Using the downscaling method and target dataset that was used to produce the currently available downscaled CMIP5 scenarios,
2. Using an improved downscaling method in combination with the updated target dataset.

This staged approach will first enable the quick provision of downscaled CMIP6 simulations to users and possibility for comparison and to judge the changes that are due to the use of new climate models (CMIP6), followed by the provision of a more refined downscaled product based on the best available downscaling method and target data.

E. Tasks

Task 1

Determine, in consultation with the Project Authority (PA) recommended within 15 days of signing the agreement, the selection of individual CMIP6 climate change simulations forced with different Shared Socioeconomic Pathways (SSP) scenarios that are to be downscaled. The downscaling effort must include 10 members of the ensemble simulations that were produced with the CanESM5 model of the Canadian Centre for Climate Modelling and Analysis, and representative simulations produced by most other modelling centres participating in CMIP6, to a maximum of 30 additional models. The downscaling method and target data must be consistent with the CMIP5 downscaled scenarios currently available.

Task 2

Determine and implement an improved method for downscaling and a preferred new target dataset of gridded daily maximum temperature, daily minimum temperature and daily precipitation observations with coverage for at least all of Canada, and possibly areas south of Canada/US border. Methods that better account for the joint statistical properties of temperature and precipitation must be explored. Changes/improvement due to the use of different downscaling methods and/or targeted data must be analysed using selected subsets of simulations and must be documented.

Task 3

Produce downscaled daily maximum and minimum temperatures and daily precipitation using refined downscaling method and target data, based on the outcomes from Task 2 and in consultation with the PA.

F. Deliverables

1. The Contractor must submit the list of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the rationale for the selection of GCM simulations.
2. The Contractor must submit downscaled time series for half of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the progress achieved..
3. The contractor must submit downscaled time series for an additional one-fourth of the CMIP6 simulations as outlined in Task 1, including a report documenting the progress achieved.
4. The contractor must submit downscaled time series for the remaining one-fourth of the CMIP6 simulations as outlined in Task 1. The Contractor must also submit a report at the same time that documents findings from Task 2. This report should include:
 - a. a review of new statistical downscaling methods and potential target data that are relevant to this project,
 - b. rationale for the analyses and the use of subset of model simulations,
 - c. a recommendation for a new statistical downscaling method and target data.
5. The Contractor must submit downscaled time series for one-third of the selected CMIP6 simulations based on new downscaling method and new target data, along with a progress report..
6. The Contractor must submit downscaled time series for an additional one-third of the selected CMIP6 simulations based on new downscaling method and new target data.
7. The Contractor must submit downscaled time series for the remaining one-third CMIP6 simulations using the new downscaling method and the new target dataset.
8. The Contractor must submit a final report that documents the process for all downscaling methods, rationales for the selection of statistical downscaling method, target dataset, and GCM simulations, and methods used to produce downscaled projections.

G. Acceptance Criteria

The work must be completed to the satisfaction and acceptance of the Technical Authority.

ANNEX “B” - BASIS OF PAYMENT

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a maximum of \$ _____, Customs duties included and applicable taxes 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.

Table 1 – Milestone Schedule (to be completed at Contract Award)

Deliverable No.	Description	Amount	Delivery Date
1	The Contractor must submit the list of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the rationale for the selection of GCM simulations.		Within 2 months of the contract award date
2	The Contractor must submit downscaled time series for half of the selected CMIP6 simulations as outlined in Task 1 along with a report that documents the progress achieved.		March 15, 2021
	FY 2020-21		
3	The contractor must submit downscaled time series for an additional one-fourth of the CMIP6 simulations as outlined in Task 1, including a report documenting the progress achieved.		June 30, 2021
4	The contractor must submit downscaled time series for the remaining one-fourth of the CMIP6 simulations as outlined in Task 1. The Contractor must also submit a report at the same time that documents findings from Task 2. This report should include: (a) a review of new statistical downscaling methods and potential target data that are relevant to this project, (b) rationale for the analyses and the use of subset of model simulations, (c) 3) a recommendation for a new statistical downscaling method and target data.		September 30, 2021
5	The Contractor must submit downscaled time series for one-third of the selected CMIP6 simulations based on new downscaling method and new target data, along with a progress report.		March 15, 2022
	FY 2021-2022		
6	The Contractor must submit downscaled time series for an additional one-third of the selected		

	CMIP6 simulations based on new downscaling method and new target data.		
7	The Contractor must submit downscaled time series for the remaining one-third CMIP6 simulations using the new downscaling method and the new target dataset.		
8	The Contractor must submit a final report that documents the process for all downscaling methods, rationales for the selection of statistical downscaling method, target dataset, and GCM simulations, and methods used to produce downscaled projections.		
	FY 2022-2023		
		Subtotal	
		Tax with Rate	
		Total	

Limitation of Expenditure

- a) Canada's total liability to the Contractor under the Contract must not exceed the amount shown above including all Customs duties and applicable taxes.
- b) No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority.

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.