



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
Pacific Region
401 - 1230 Government Street
Victoria, B.C.
V8W 3X4
Bid Fax: (250) 363-3344

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific
Region
401 - 1230 Government Street
Victoria, B. C.
V8W 3X4

Title - Sujet Clean Marine Stream 1	
Solicitation No. - N° de l'invitation T8009-190192/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client T8009-190192	Date 2019-12-20
GETS Reference No. - N° de référence de SEAG PW-\$XLV-591-7872	
File No. - N° de dossier XLV-9-42142 (591)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-20	
Time Zone Fuseau horaire Pacific Standard Time PST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Zwarich, Eric	Buyer Id - Id de l'acheteur xlv591
Telephone No. - N° de téléphone (250) 661-2347 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

Solicitation No. - N° de l'invitation

T8009-190192/A

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

T8009-190192

Amd. No. - N° de la modif.

002

File No. - N° du dossier

Buyer ID - Id de l'acheteur

XLV591

CCC No./N° CCC - FMS No./N° VME

This solicitation amendment promulgates the following:

- 1) Addition: Annex - G – Tender deliverable List. This list established a list of deliverables required with the bid, and deliverables which may be requested after bid closing.

Correction: French solicitation only, Annex – D – Technical Criteria, D 5.1 General Mandatory Technical Criteria for All Proposals, Table D5.1, Criteria number M3

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	5
1.1 SUMMARY AND PROCUREMENT APPROACH.....	5
1.2 CLEAN MARINE – STREAM 1	5
1.3 TECHNOLOGY READINESS LEVEL (TRL)	6
1.4 TRADE AGREEMENTS	6
1.5 CANADIAN CONTENT	6
1.6 CONFLICT OF INTEREST.....	6
1.7 POTENTIAL CONDITIONS.....	6
1.8 MAXIMUM FUNDING AND PERFORMANCE PERIOD.....	7
1.9 EPOST CONNECT.....	7
1.10 DEBRIEFINGS	7
1.11 PHASED BID COMPLIANCE	7
PART 2 - BIDDER INSTRUCTIONS	8
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	8
2.2 SUBMISSION OF PROPOSALS	10
2.3 FORMER PUBLIC SERVANT.....	10
2.4 ENQUIRIES - BID SOLICITATION.....	11
2.5 CONTRACTING AUTHORITY	11
2.6 APPLICABLE LAWS.....	12
2.7 PUBLIC ANNOUNCEMENTS	12
PART 3 - BID PREPARATION INSTRUCTIONS.....	13
3.1 PROPOSAL PREPARATION INSTRUCTIONS.....	13
3.2 TECHNICAL PROPOSAL.....	14
3.3 FINANCIAL PROPOSAL	14
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	15
4.1 EVALUATION PROCEDURES.....	15
4.2 EVALUATION CRITERIA	19
4.3 BASIS OF RANKING	19
4.4 BASIS OF SELECTION.....	19
4.5 DEBRIEFINGS	20

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

4.6	CONTRACTING PROCESS	20
4.7	CONTRACT AWARD.....	20
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION		21
5.1	CERTIFICATIONS REQUIRED WITH THE BID	21
5.2	CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	21
PART 6 – RESULTING CONTRACT CLAUSES		24
6.1	REQUIREMENT	24
6.2	GENERAL CONDITIONS	24
6.3	SECURITY REQUIREMENT.....	24
6.4	TERM OF CONTRACT	24
6.5	AUTHORITIES	24
6.6	PAYMENT	25
6.7	PRIORITY OF DOCUMENTS	26
6.8	DISCRETIONARY AUDIT	26
6.9	INVOICING INSTRUCTIONS	26
6.10	CERTIFICATIONS	26
6.11	CANADIAN CONTENT DEFINITION.....	27
6.12	APPLICABLE LAWS.....	28
6.13	CONTROLLED GOODS PROGRAM.....	28
6.14	MILESTONE SCHEDULE	28
6.15	APPLICABLE FOREIGN NATIONALS	28
6.16	PROACTIVE DISCLOSURE OF CONTRACTS WITH FORMER PUBLIC SERVANTS <i>(IF APPLICABLE)</i>	28
6.17	JOINT VENTURE <i>(IF APPLICABLE)</i>	28
6.18	FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - DEFAULT BY THE CONTRACTOR	29
ANNEX A – REQUIREMENTS		30
APPENDIX 1 – MARINE RD&D PRIORITY RESEARCH STREAMS – CLEAN MARINE		34
ANNEX B – BASIS OF PAYMENT.....		35
ANNEX C – FINANCIAL EVALUATION CRITERIA.....		36
C1	INTRODUCTION.....	36
C2	FINANCIAL SUBMISSION.....	36
C3	MANDATORY FINANCIAL CRITERIA.....	36

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

C4	POINT-RATED FINANCIAL CRITERIA.....	36
	APPENDIX 2 – MAXIMUM YEARLY BUDGET.....	39
ANNEX D – TECHNICAL CRITERIA		40
D1	GENERAL	40
D2	MANDATORY TECHNICAL CRITERIA.....	40
D3	POINT-RATED TECHNICAL CRITERIA.....	40
D4	BASIS OF SELECTION.....	40
D5	MANDATORY TECHNICAL CRITERIA.....	41
D6	POINT-RATED TECHNICAL CRITERIA.....	43
D7	SUBMISSION TEMPLATES	50
ANNEX E – ELECTRONIC PAYMENT INSTRUMENTS.....		51
ANNEX F – FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY – CERTIFICATION		52
ANNEX G – TENDER DELIVERABLES.....		53

PART 1 - GENERAL INFORMATION

1.1 Summary and Procurement approach

Public Works and Government Services Canada (PWGSC) is issuing this Request for Proposal (RFP) on behalf of Transport Canada Innovation Center (TC-IC) Marine RD&D, which is mandated to obtain targeted research and development, advance scientific capacity, and provide guidance to industry in 2 main initiatives; Clean Marine and Marine Mammal Protection.

This RFP invites proposals specifically for stream 1, Clean Marine. Proposals submitted under this stream should be projects which are to be implemented within the fiscal year of 2020-21 with contracting planned for start in April 2020. Multi-year proposals are acceptable up to a maximum of 4 years.

In the month of November 2019, Canada held TC-IC T Marine RD&D Request for Proposals Information Sessions in two locations in Canada; Vancouver and Halifax. These info sessions presented the initiatives, detail key elements for each proposal stream and the proposal submission process.

There are three (3) streams for bidders to submit their proposals under two (2) initiatives. This stream's is specifically for stream 1 – Clean Marine. There are 2 other streams plus an overarching Call for Proposals which can be located on buyandsell.gc.ca under the following file numbers:

- Stream 2 – Marine Mammal Protection T8009-190191
- Stream 3 – Combined Proposals T8009-190185
- TC-IC Marine RD&D Call for Proposal(CFP) T8009-190223

Bidders are directed to review the Call for Proposal and all other streams to ensure that any proposal submitted is being submitted to the most applicable stream's.

1.2 Clean Marine – Stream 1

The objective of the Clean Marine stream is to decrease greenhouse gas (GHG) and criteria air contaminants (CAC) emissions from Canadian vessels; this is accomplished through efficiency improvements and/or conducting fundamental clean technology research and validation of clean technologies or design changes. At this time, the Clean Marine stream will focus on two themes within the Canadian marine sector:

1. Emerging Technologies
2. Testing and Validation of Pre-Commercial and Commercial Technologies.

Examples of potential projects include, but are not limited to:

- Development of new emission treatment technologies;
- Novel vessel designs;
- Technologies to monitor vessel performance in real-time;
- Alternative fuels to maritime diesel;
- Alternative energy sources from conventional diesel engines.
- Emission testing of after-treatment technologies and fuels, i.e. scrubbers, different alternative fuel blends;
- Characterizing the performance (safety, environmental, efficiency) of alternative power sources (ie. Fuel cell, photovoltaic, etc.) for different vessel classes, use cases, etc.

1.3 Technology Readiness Level (TRL)

Canada is looking for proposals which have a specific range of TRL levels that is dependent on the key area and the initiative. The layout of the levels for each key are laid out in Annex A - Appendix 1– Marine RD&D Priority Research Streams – Clean Marine.

1.4 Trade Agreements

The Canadian Free Trade Agreement (CFTA) applies to this procurement. The CFP process is organized in a manner consistent with the principles of the CFTA in terms of equal access, fairness, and transparency.

This procurement is excluded from the North American Free Trade Agreement (NAFTA) as per Annex 1001.1b-2 Research and Development, all classes, and excluded from the application of the World Trade Organization—Agreement on Government Procurement (WTO-AGP) under Appendix 1, Annex 4, as well as excluded from the Canada-European Union Comprehensive Economic and Trade Agreement (CETA) as per Annex 19-5. a.

1.5 Canadian Content

This procurement is conditionally limited to Canadian goods and/or services. See Part 3.1 for more information.

1.6 Conflict of Interest

The Contractor, its subcontractor(s) or any of their agent(s) directly or indirectly involved in the performance of the Work and/or in the production of the deliverables under any resulting Contract will not be precluded from bidding on any potential future proposal solicitation related to the production or exploitation of any concept or prototype developed or delivered.

1.7 Potential Conditions

The following may apply to the resulting contract(s) requirements:

1.7.1 Security Requirements

There will be no security requirements associated with the resulting contract(s)

1.7.2 Federal Contractors Program (FCP)

The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 6 - Resulting Contract Clauses and the annex F titled - Federal Contractors Program for Employment Equity - Certification.

1.7.3 Comprehensive Land Claims Agreement (CLCA)

Depending on the proposal received, the region of delivery for the goods and/or services may be in an area subject to Comprehensive Land Claims Agreements (CLCAs). If this occurs, the procurement will be subject to the applicable CLCA.

1.7.4 Controlled Goods

Any resulting contract may be subject to the Controlled Goods Program. Refer to the Controlled Goods Program website (<https://www.tpsgc-pwgsc.gc.ca/pmc-cgp/index-eng.html>).

1.7.5 Intellectual Property

The Bidder must certify that it owns or has the rights to all relevant background and/or foreground Intellectual Property (IP) requisite to proceed with the work as defined in the SOW.

The default position of Canada is to allow contractors to retain the IP rights with a licence granted to Canada for IP rights, which would include the right to use and have used the IP for Canada's activities.

1.8 Maximum Funding and Performance Period

For information regarding the maximum budget, number of projects desired per year, and maximum yearly budget per contract, refer to Annex A - Appendix 1 – Marine RD&D Priority Research Streams – Clean Marine.

Proposals must clearly indicate the division of costs, and clearly indicate the percentage of cost being requested for, maximum allowable cost share for each key element is indicated in Annex A - Appendix 1 – Marine RD&D Priority Research Streams – Clean Marine.

1.9 ePost Connect

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

1.10 Debriefings

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

1.11 Phased Bid Compliance

The Phased Bid Compliance Process (PCBC) applies to this requirement.

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>) 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.

In this document, the term "bid" conveys "proposal." Following contract award (if awarded), the terms "Bid" and "Bidder" may be changed to "Contract" and "Contractor" and if not changed will be interpreted to mean, instead, "Contract" and "Contractor" unless otherwise noted.

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

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

- a) Section 05, Submission of bids, subsection 4:

DELETE: Bids will remain open for acceptance for a period of not less than 60 days from the closing date of the bid solicitation, unless specified otherwise in the bid solicitation.

INSERT:

Proposals will remain open for acceptance for a period of 12 months from the closing date of this CFP.

- b) Section 08, Transmission by facsimile or epost Connect

DELETE: Subsection 2 in its entirety.

INSERT: epost Connect

- a) Unless specified otherwise in the bid solicitation, bids must be submitted by using the epost Connect service provided by Canada Post Corporation (CPC).
- The only acceptable email address to use with epost Connect is:

TPSGC.RPReceptiondessoumissions-PRBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca

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

To submit a bid using epost Connect service, the bidder must:

- send as early as possible, and in any case, at least five business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the bid solicitation number to the email indicated in part a. requesting to

open an epost Connect Conversation. Requests to open an epost Connect conversation received after that time may not be answered.

If the Bidder sends an email requesting epost Connect service to the specified email in the bid solicitation, PWGSC will then initiate an epost Connect conversation. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access and action the message within the conversation. The Bidder will then be able to transmit its bid afterward at any time prior to the solicitation closing date and time. PWGSC will keep the epost Connect conversation open until 30 days after the CFP closing date and time.

The bid solicitation number should be identified in the epost Connect message field of all electronic transfers.

For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:

- receipt of corrupted or incomplete bid;
- availability or condition of the epost Connect service;
- incompatibility between the sending and receiving equipment;
- delay in transmission or receipt of the bid;
- failure of the Bidder to properly identify the bid;
- illegibility of the bid;
- security of bid data; or,
- inability to create an electronic conversation through the epost Connect service

A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with 2003 (2019-03-04) section 05 (2018-05-22) Standard Instructions – Goods or Services – Competitive Requirements found within the Standard Acquisition Clauses and Conditions (SACC) Manual

Should a Bidder submit a late or delayed bid submission:

1. For bids submitted electronically, the late bids will be deleted. As an example, bids submitted using Canada Post Corporation's epost Connect service, conversations initiated by the PWGSC via the epost Connect service pertaining to a late bid, will be deleted. Records will be kept documenting the transaction history of all late bids submitted using epost Connect.
2. The only piece of evidence relating to a delay in the epost Connect service provided by CPC system that is acceptable to the PWGSC is a CPC epost Connect service date and time

c) Section 14, Price Justification:

DELETE: In the event that the Bidder's bid is the sole responsive bid received, the Bidder must provide, on Canada's request, one or more of the following price justification:

INSERT: For all pre-qualified proposals eligible for Contract award, the Bidders must provide, on Canada's request, one or more of the following price justification:

2.2 Submission of Proposals

Due to the nature of the RFP, proposals transmitted by facsimile will not be accepted.

All proposals submitted will be bound by the same terms, conditions and limitations.

All questions regarding the submission of proposals must be directed to the Contracting Authority.

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 FPSs, 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.

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

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.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 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 Contracting Authority

The Contracting authority for this request for proposal is:

Name: Eric Zwarich
Title: Supply Team leader, Acquisitions, Marine
Department: Procurement Branch
Public Works and Government Services Canada
Address: 1230 Government Street, Suite 401
Victoria, BC
V8W 3X4
Canada
Telephone: 250-661-2347
E-mail: Eric.Zwarich@pwgsc-tpsgc.gc.ca

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

2.6 Applicable Laws

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

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

2.7 Public Announcements

In order to coordinate any public announcements pertaining to any resulting contract, and as a courtesy, successful Bidders are requested, but not required, to notify the Contracting Authority fifteen (15) business days in advance of their intention to make public an announcement related to the recommendation of a contract award, or any information related to the contract. This notice will provide sufficient time for the Government of Canada to coordinate a potential joint announcement with the successful Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Proposal Preparation Instructions

This RFP is open to individuals, academia, and industry. Federal Public Service employees are subject to the Values and Ethics Code for the Public Sector and all Bidders are subject to the provision of 2003 (2019-03-04) section 18 (2012-03-02) Conflict of interest—unfair advantage and as indicated in section 1.8 of this solicitation.

The Bidder's proposal must be in the format indicated in Annex A. Failure to provide the proposal in this format may result in the proposal being found non responsive. The completed proposal will be incorporated into in any resulting contract. Bidders are and will remain solely responsible for the accuracy and completeness of their proposals. Bidders should read all CFP documentation and request for Proposal notices for each stream in their entirety prior to submitting a proposal.

Bidders may submit more than one proposal per stream, and may submit proposals in multiple streams; however the proposals must be standalone and have no dependencies on other proposals. If proposals are identified as dependent, Canada reserves the right to declare any or all proposals as non-responsive and not consider them further. Each proposal will be evaluated separately on its own merit.

3.1.1 Canadian Content

This procurement is conditionally limited to Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the service offered is a Canadian service, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the service offered being treated as a non-Canadian service.

The Bidder certifies that:

() the service offered is a Canadian service as defined in paragraph 2 of clause A3050T.

3.1.2 Electronic Payment of Invoices – Bid

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

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

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

3.1.3 Evaluation of Price - Canadian / Foreign Bidders

The price of the bid will be evaluated as follows:

- a. Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
- b. Foreign-based bidders must submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based bidders.

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

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

3.2 Technical Proposal

In their proposal, Bidders should demonstrate their understanding of the requirements contained in this RFP in Annex D. Bidders should 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 proposal should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the proposal will be evaluated; with supporting documentation and information provided as proof of compliance.

To maintain the integrity of the evaluation, evaluators will consider only information presented in the proposal. No information will be inferred and personal knowledge or beliefs will not be utilized in the evaluation. Bidders should explicitly demonstrate, in sufficient detail, how all criteria are met. Evaluators will take the entire proposal into consideration for each criterion. If information is found elsewhere in the proposal that corresponds to a criterion, evaluators will consider this.

3.3 Financial Proposal

The financial layout of the Bidder's proposal must be submitted in the format provided in Annex C. Failure to provide the financial proposal in this format may result in the proposal being found non responsive. The completed annex will form Annex B – Basis of Payment in any resulting Contract.

All costs identified in the proposal must be in Canadian dollars (CAD)

The costs submitted with the proposal must be in accordance with the [PWGSC Contract Cost Principles 1031-2](#). Furthermore, the total amount of profit must not exceed 20 percent (20%) of the total bid price. For academic institutions, costs must be in accordance with [10.40](#) of the *Supply Manual*.

Requests for exchange rate fluctuation risk mitigation are not permitted as per [C3011T \(2013-11-06\) Exchange Rate Fluctuation](#).

The Cost proposal must clearly indicate all costs for the project, broken down in detail, with indication of what costs will be covered by the bidder and what costs are proposed for TC-IC to cover.

The maximum amount of TC-IC cost coverage is in accordance with Annex A – Appendix 1.

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, and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids. If required, Canada may use external Subject Matter Experts (SMEs) to evaluate any proposal. External SMEs will be required to confirm they are not in a conflict of interest, and sign a non-disclosure agreement.
- (c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.
- (d) In conducting its evaluation of the proposals, Canada may, but will have no obligation to, request clarifications from the Bidders regarding information provided in the proposal. This must not be construed as:
 - an opportunity to provide supplemental information;
 - an intent to repair or modify the proposal; and
 - an intent to contract with the Bidder
- (e) The Bidder must provide a response to the written request for clarification or verification issued by the Contracting Authority in accordance with the provisions of the request, which may include a time period in which to provide the response. Failure to comply with the request may result in the proposal being declared non-responsive and given no further consideration.

4.1.1 Phased Bid Compliance Process (PBCP)

4.1.1.1 (2018-07-19) General

- (a) Canada is conducting the PBCP described below for this requirement.
- (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada.

THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE.

THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY

REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

- (c) Canada may, in its discretion, request and accept at any time from a Bidder and consider as part of the Bid, any information to correct errors or deficiencies in the Bid that are clerical or administrative, such as, without limitation, failure to sign the Bid or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Bidder has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. The Bidder will have the time period specified in writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Bid being declared non-responsive.
- (d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2019-03-04) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right, or in the circumstances described in subsection (c).
- (e) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.1.1.2 (2018-03-13) Phase I: Financial Bid

- (a) After the closing date and time of this bid solicitation, Canada will examine the Bid to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements.
- (b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- (c) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing all of the information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.
- (d) For Bids other than those described in c), Canada will send a written notice to the Bidder ("Notice") identifying where the Financial Bid is missing information. A Bidder, whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.

- (e) The Bidders who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.
- (f) In its response to the Notice, the Bidder will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Bidder and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- (g) Any other changes to the Financial Bid submitted by the Bidder will be considered to be new information and will be disregarded. There will be no change permitted to any other Section of the Bidder's Bid. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, only that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.
- (h) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Bidder in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (i) Only Bids found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.1.1.3 (2018-03-13) Phase II: Technical Bid

- (a) Canada's review at Phase II will be limited to a review of the Technical Bid to identify any instances where the Bidder has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meets any standard or is responsive to all solicitation requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the PBCP. Mandatory technical criteria that are not identified in the solicitation as being subject to the PBCP, will not be evaluated until Phase III.
- (b) Canada will send a written notice to the Bidder (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Bid has failed to meet. A Bidder whose Bid has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Bid has been found responsive to the requirements reviewed at Phase II. Such Bidder shall not be entitled to submit any response to the CAR.
- (c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.

- (d) The Bidder's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Bidder which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Bid, the Bidder shall identify such additional changes, provided that its response must not include any change to the Financial Bid.
- (e) The Bidder's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Bidder must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory Criterion. It is not up to Canada to revise the Bidder's Bid, and failure of the Bidder to do so in accordance with this subparagraph is at the Bidder's own risk. All submitted information must comply with the requirements of this solicitation.
- (f) Any changes to the Bid submitted by the Bidder other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, only that part of the original Bid as is permitted in this Section.
- (g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Bid, but will be considered by Canada in the evaluation of the Bid at Phase II only for the purpose of determining whether the Bid meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase any score that the original Bid would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Bidder in response to the CAR. If so, the Bid will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Bidder shall bind the Bidder as part of its Bid, but the Bidder's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Bid
- (h) Canada will determine whether the Bid is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Bidder in accordance with this Section. If the Bid is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.
- (i) Only Bids found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.1.1.4 (2018-03-13) Phase III: Final Evaluation of the Bid

- (a) In Phase III, Canada will complete the evaluation of all Bids found responsive to the requirements reviewed at Phase II. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) A Bid is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.1.2 (2017-07-31) Technical Evaluation

4.1.2.1 (2017-07-31) Mandatory Criteria

The Phased Bid Compliance Process will apply to all mandatory criteria.

4.1.2.2 Point-Rated Criteria

The Phased Bid Compliance Process will apply to all point rated criteria.

4.2 Evaluation Criteria

4.2.1 Mandatory Financial Criteria

Financial proposals will be evaluated in accordance with the Mandatory Financial Criteria located in Annex C. Proposals must meet all mandatory requirements to be considered responsive and proceed to the point rated financial evaluation phase.

4.2.2 Point-Rated Financial Evaluation

Financial proposals will be evaluated in accordance with the Point-Rated Financial Criteria located Annex C. Proposals must meet the minimum point score indicated to be considered responsive and proceed to the mandatory screening criteria.

4.2.3 Mandatory Technical Criteria

Proposals will be evaluated in accordance with the Mandatory Technical Criteria as indicated in Annex D. Proposals must meet all the mandatory screening criteria to be found responsive and proceed to the point rated screening criteria.

4.2.4 Point-Rated Technical Criteria

Proposals will be evaluated in accordance with the Point-Rated Technical Criteria as indicated in Annex D. Proposals must meet the minimum point score to be considered responsive.

4.3 Basis of Ranking

To be declared responsive, a proposal must successfully pass all evaluation meeting the mandatory requirements indicated in Annex C and Annex D.

Proposals will then be ranked in each stream in accordance with the scoring system indicated in Annex C and Annex D combined, from highest to lowest.

4.4 Basis of Selection

Transport Canada will review all proposals submitted under each stream and a committee of TC representatives will select one or more proposals from each stream to submit for approval to the management team.

The management team will determine which proposals will be accepted and processed further based on department priorities, financial budget, and best value to Canada.

4.5 Debriefings

PWGSC will inform all bidders of their individual results via email. Results will be sent at the following points of the process:

- a) Completion of Proposal Evaluation – Successfully in the pool or found non-responsive.
- b) After Selection of Proposals – Proposal selected for award phase, or if proposal was not selected in this Call for Proposals.

Contract award notices will also be posted on the Buy and Sell website. Canada may, on request by the Bidder, provide unsuccessful Bidders with additional clarification. Bidders must make their requests to the Contracting Authority within 15 working days after the receipt of their individual results.

4.6 Contracting Process

Bidders whose proposals are selected and approved by the Transport Canada Management Team will be approached by PWGSC for supplemental information required for processing Bidders during the Contract award process.

Additionally, Canada may require to negotiate changes to the proposal in regards to the following:

- Clarification of deliverables or processes proposed by Bidder,
- Negotiate Milestone payment schedule,
- Negotiate Milestone Deliverable requirements; and,
- Obtain further price breakdown.

In submitting a bid Bidders are indicating agreement with the terms and conditions as stated, and no negotiation of the resulting terms and conditions will be conducted. Failure to accept the terms and agreements indicated in the RFP Stream could result in the proposal being found non-responsive.

Terms and Conditions which are not applicable may be modified during the Contract Award Process as being Not Applicable on a proposal by proposal case.

PWGSC must verify that all costs are fair and reasonable. If a cost cannot be supported the cost may not be included in the contract. Failure to achieve consensus on any aspect of the negotiations will result in the proposal being set aside and not given any further consideration. If an agreement cannot be reached between Canada and the Bidder within two months from the date of notification of the Bidder's result, Canada reserves the right to stop negotiations with the Bidder and dissociate the funds.

4.7 Contract Award

Upon successful completion of all steps in the contract award process, internal approval will be sought and the Bidder's proposal will be recommended for contract award. At no time during the Call for Proposal process is there a guarantee of Contract award until such time as the contract is signed by Canada and the Contractor.

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 Canadian Content

This procurement is conditionally limited to Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the service offered is a Canadian service, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the service offered being treated as a non-Canadian service.

The Bidder certifies that:

() the service offered is a Canadian service as defined in paragraph 2 of clause A3050T.

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 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](https://www.canada.ca/en/employment-social-development/canada/esdc/labour's) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

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

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

5.2.3 Additional Certifications Precedent to Contract Award

5.2.3.1 Status and Availability of Resources

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

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

5.2.3.2 Education and Experience

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

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

PART 6 – RESULTING CONTRACT CLAUSES

Resulting contract clauses are subject to modification by Canada.

6.1 Requirement

The Contract must perform work in accordance with the Requirement located in Annex A and the Contractor's proposal dated _____

6.2 General Conditions

2040 (2018-06-21), General Conditions—Research & Development, apply to and form part of the Contract.

6.3 Security Requirement

There is no security requirement

6.4 Term of Contract

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

Or;

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Eric Zwarich
Title: Supply Team leader, Acquisitions, Marine
Direction: Procurement Branch
Public Works and Government Services Canada
Address: 1230 Government Street, Suite 401
Victoria, BC
V8W 3X4
Canada
Telephone: 250-661-2347
E-mail: Eric.Zwarich@pwgsc-tpsgc.gc.ca

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

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: TBD
Title: TBD
Organisation: TBD
Address: TBD
Telephone: TBD
FAX: TBD

E-mail: TBD

The Technical 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 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.

6.5.3 Procurement Authority

The Procurement Authority for the Contract is:

TBD

The Procurement Authority is the representative of the department or agency for whom the work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contract

or may discuss administrative matters identified in the Contract with the Procurement Authority, however, the Procurement Authority has no authority to authorize changes to the scope of the work. Changes to the scope of work can only be made through a contract amendment issued by the Contracting Authority.

6.5.4 Contractor's Representative

Contact for:	Name	Telephone	Email
Contracting issues			
Technical issues			
Invoicing issues			

6.6 Payment

6.6.1 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 Annex B for a cost of \$_____. Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Method of Payment

6.6.2.1 Milestone Payments

Canada will make milestone payments in accordance with the Work Plan and Deliverables – Milestone tables detailed in the Basis of Payment (Annex B) and the payment provisions of the Contract if:

- an accurate and complete claim for payment using form PWGSC-TPSGC 1111
- (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- all work associated with the milestone has been completed and accepted by Canada.

6.6.3 SACC Manual Clauses

A9117C (2007-11-30), T1204— Direct Request by Customer Department

6.7 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 general conditions 2040 (2018-06-21);
- c) The Contractor's proposal dated _____.
- d) Annex A - Requirement;
- e) Annex B – Basis of Payment;

6.8 Discretionary Audit

One of the following SACC Manual clauses will apply.

- a) C0101C (2010-01-11), Discretionary Audit—Non-commercial Goods and/or Services.
- b) C0102C (2010-01-11), Discretionary Audit—Canadian Universities and Colleges.

6.9 Invoicing Instructions

The Contractor must submit a claim for progress payment using form PWGSC-TPSGC 1111 (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment.

Each claim must show:

- a) all information required on form PWGSC-TPSGC 1111;
- b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- c) the description and value of the milestone claimed as detailed in the Contract.

The Contractor must prepare and certify an original claim on Form PWGSC-TPSGC 1111, and forward it to the Technical Authority for certification with a copy to the Contracting Authority, in an electronic format, to the electronic mail addresses identified under section entitled "Authorities" of the Contract. Portable Document Format (.pdf) is acceptable. The Technical Authority will inspect and certify the claim for work and forward the certified claim to the Payment Office for the remaining certification, and payment will take place.

The Contractor must not submit claims until all work identified in claims is completed.

6.10 Certifications

6.10.1 Compliance

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

6.10.2 Canadian Content

The Contractor warrants that the certification of Canadian Content submitted by the Contractor is accurate and complete, and that the goods, services or both to be provided under the Contract are in accordance with the definition contained at article 11.

The Contractor must keep proper records and documentation relating to the origin of the goods, services or both provided to Canada. The Contractor must not, without obtaining before the written consent of the Contracting Authority, dispose of any such records or documentation until the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes under the Contract, whichever is later. All such records and documentation must at all times during the retention period be open to audit, inspection and examination by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all facilities for such audits, inspections and examinations, and must furnish all such information as the representatives of Canada may from time to time require with respect to such records and documentation.

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

6.11 Canadian Content Definition

6.11.1 Canadian Good:

A good wholly manufactured or originating in Canada is considered a Canadian good. A product containing imported elements may also be considered Canadian for the purpose of this policy when it has undergone sufficient change in Canada, in a manner that satisfies the definition specified under the North American Free Trade Agreement (NAFTA) Rules of Origin. For the purposes of this determination, the reference in the NAFTA Rules of Origin to "territory" is to be replaced with "Canada". (Consult Annex 3.6 (9) of the *Supply Manual*.)

6.11.2 Canadian Service:

A service provided by an individual based in Canada is considered a Canadian service. Where a requirement consists of only one service, which is being provided by more than one individual, the service will be considered Canadian if a minimum of 80 percent of the total bid price for the service is provided by individuals based in Canada.

6.11.3 Variety of goods:

When requirements consist of more than one good, one of the two methods below is applied:

- a) aggregate evaluation: no less than 80 percent of the total bid price must consist of Canadian goods; or,
- b) item by item evaluation: in some cases, the bid evaluation may be conducted on an item-by-item basis and contracts may be awarded to more than one supplier. In these cases, suppliers will be asked to identify separately each item that meets the definition of Canadian goods.

6.11.4 Variety of services:

For requirements consisting of more than one service, a minimum of 80 percent of the total bid price must be provided by individuals based in Canada.

6.11.5 Mix of goods and services:

When requirements consist of a mix of goods and services, no less than 80 percent of the total bid price must consist of Canadian goods and services (as defined above). For more information on how to determine

the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6 (9), Example 2, of the *Supply Manual*.

6.11.6 Other Canadian goods and services:

Textiles: Textiles are considered to be Canadian goods according to a modified rule of origin, copies of which are available from the Clothing and Textiles Division, Commercial and Consumer Products Directorate.

6.12 Applicable Laws

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

6.13 Controlled Goods Program

Not applicable.

or

SACC Manual clause A9131C (2014-11-27), Controlled Goods Program—Contract

SACC Manual clause B4060C (2011-05-16), Controlled Goods

6.14 Milestone Schedule

TBD

6.15 Applicable Foreign Nationals

SACC Manual clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

Or

SACC Manual clause A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)

6.16 Proactive Disclosure of Contracts with Former Public Servants (*if applicable*)

SACC Manual clause A3025C (2013-03-21)

6.17 Joint Venture (*if applicable*)

Note: This section will be deleted if the Bidder awarded the Contract is not a joint venture. If the Contractor is a joint venture, this clause will be completed with information provided in the bid.

6.17.1 The Contractor confirms that the name of the joint venture is _____ and that it is comprised of the following members: *[list all the joint venture members named in the Contractor's original bid]*.

6.17.2 With respect to the relationship between the members of the joint venture Contractor, each member agrees, represents and warrants (as applicable) that:

- i. _____ has been appointed as the "representative member" of the joint venture Contractor and has fully authority to act as agent for each member regarding all matters relating to the Contract;
- ii. by giving notice to the representative member, Canada will be considered to have given notice to all the members of the joint venture Contractor; and

- iii. all payments made by Canada to the representative member will act as a release by all the members.

- 6.17.3 All the members agree that Canada may terminate the Contract in its discretion if there is a dispute among the members that, in Canada's opinion, affect the performance of the work in any way
- 6.17.4 All the members are jointly and severally, or solitarily, liable for the performance of the entire Contract.
- 6.17.5 The Contractor acknowledges that any change in the membership of the joint venture (i.e., a change in the number of members or the substitution of another legal entity for an existing member) constitutes an assignment and is subject to the assignment provisions of the General Conditions.
- 6.17.6 The Contractor acknowledges that all security and controlled goods requirements in the Contract, if any, apply to each member of the joint venture Contractor.

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

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

ANNEX A – REQUIREMENTS

Summary

Transport Canada Innovation Centre (TC-IC) Marine Research Development and Demonstration (RD&D) Group has a requirement to support the Marine Industry to research and/or develop technologies or designs, which will focus on the following key streams:

1. Clean Marine – Focuses on the reduction of greenhouse gas (GHG) and criteria air contaminant (CAC) emissions through improving vessel efficiency and/or switching to alternative fuels or energy sources.
2. Marine Mammal Protection – Focuses on the reduction of both acoustic and physical disturbances to marine mammals that have been identified as endangered under the *Species at Risk Act* (SARA).
3. Combined – Focuses on the objectives of both streams to identify, develop, evaluate, and implement technologies and/or that improve vessel efficiency, reduce emissions, and underwater radiated noise (URN) in the marine sector.

All projects are expected to develop reports and/or information that will be made available in the public domain, in accordance with the terms and conditions of the contract.

Background

TC-IC undertakes scientific research to support policy, programs, and regulatory approaches to enhance the safety, security, efficiency, and environmental performance of Canada's transportation system.

The TC-IC Marine RD&D group conducts RD&D to increase knowledge on emerging marine trends, research and develop new and/or disruptive technologies, and support the department's policy, program and regulatory framework by providing scientific evidence to support decision-making.

This request for proposal will solicit proposals from a variety of stakeholders, including industry, Indigenous peoples, and academia to ensure relevancy, market potential, and no duplication of efforts.

Personnel Based Requirements

The Contractor must provide the experience details of the proposed individual(s) that will be conducting the project. As appropriate, the Contractor must demonstrate compliance with any experience requirements in accordance to the project theme's technical criteria through relevant documentation and/or references.

The Contractor must maintain the team as proposed, and any change in personnel must be reported to the Technical Authority 5 days prior to any change. Replacement personnel must meet the requirements of the terms and conditions, and must have equivalent or higher qualification and/or experience than the personnel being replaced. At time of reporting, the Contractor must provide the CV or Résumé of the incoming person to the Technical Authority. Transport Canada retains the right to approve any replacement personnel.

Results Based Requirements

The Contractor must include a provision stating that if the results at the end of each identified milestone or phase show that it is undesirable to continue with the project for whatever reason, Canada reserves the right to decide to end the project at that time and phase.

Report Requirements

The Contractor will be expected to write the following two types of reports: interim reports to mark the end of each of the milestones and a final report to mark the completion of the project. This section will provide an outline as to what is expected for each of the reports.

The final report must adhere to the **TP929 Style Guidelines for Report Writing** and include the sections listed within as mandated by TC. Additionally, all reports must follow the **Guidelines for Creating Accessible Documents in Microsoft Word 2013** to ensure report readability for all readers. These guidelines will be provided as a downloadable document.

If there is proprietary information that cannot be released to the general public, two final reports may be necessary – one without proprietary information that is released to the general public and one that will remain confidential to the Government of Canada.

Interim Report:

Prior to payment of any milestone, the Contractor must submit a final draft of an interim report.

Contractors must submit a first draft to TC a minimum of 12 business days before planned final submission. TC will provide comments which the Contractor must incorporate into the final draft within 6 business days upon receipt.

The Contractor's interim reports must, as a minimum, cover:

Introduction:

The introduction section will provide a project overview, context behind the milestone and a brief overview of the goals of the milestone. In other words, the “why” behind the work conducted as part of the milestone and “what” was actually completed.

Methods:

The Contractor must provide a detailed methodology behind the work conducted as part of the milestone. The methodology should include the planning, experimental set-up (as applicable), and any other related background information required prior to the results section.

Results:

The Contractor must provide an overview of the results to show the completion of the required work of the milestone. The results section should be clear, concise, and simply demonstrate what was achieved. The preferred way to present results is through the use of tables and figures.

Summary:

The summary will discuss the results, provide insight into next steps, and discuss whether the project is currently on track. Any possible disruptions to the project schedule should be mentioned at this point so that Transport Canada may act accordingly.

Note that these sections are only an outline and are subject to change depending on the nature of the project.

Final Report:

On completion of all phases of the project the Contractor must submit a final report. Similar to interim reports, the Contractor must submit a draft for TC to provide comments. Contractor must incorporate comments into the final draft.

The draft must be submitted to TC no later than 21 business days prior to final report milestone date. TC will provide comments within 14 business days.

The Final report will be made available by TC to the public. The Contractor must ensure any and all Intellectual Property rights and proprietary information in the final report is addressed to allow for public posting.

Transport Canada reserves the right to request an annotated presentation or additional reports such as scientific journal papers to be written at the contracting phase.

Project Requirements:

Stream 1 – Clean Marine

The objective of the Clean Marine stream is to decrease greenhouse gas (GHG) and criteria air contaminants (CAC) emissions from Canadian vessels; this is accomplished through efficiency improvements and/or conducting fundamental clean technology research and validation of clean technologies or design changes. At this time, the Clean Marine stream will focus on two themes within the Canadian marine sector.

(1a) - Emerging Technologies

Projects under this theme will support fundamental science and research to adapt or develop new technologies to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.

The Contractor's project must outline the following:

- A detailed description of the technology, its current state of development, and an overview of how the project will advance the technology to (a) higher TRL(s);
- Technologies must have a Technology Readiness Level (TRL) as defined by Innovation Canada of 2-5¹. Higher TRLs will be considered if the technology in question is not in use or was not developed originally for the maritime sector;
- The class of vessel(s) to which this technology is most applicable;
- The commercial market potential of the technology – including both domestic and international markets;
- Preliminary estimates of the adoption or integration costs of incorporating the technology into a vessel design and/or vessel retrofit;
- A preliminary estimate of the greenhouse gas (GHG) and criteria air contaminant (CAC) emission reduction potentials of the technology, and its impacts on vessel efficiency;
- Identification of any potential challenges or barriers that may prevent the technology and/or design from being implemented in the Canadian Marine sector, and how these challenges could be mitigated; and
- A project risk analysis section that also outlines how identified risks will be mitigated.

1. <https://www.ic.gc.ca/eic/site/080.nsf/eng/00002.html>

(1b) - Testing & Validation of Pre-commercial and Commercial Technologies

Under this theme, Transport Canada seeks to conduct testing of pre-commercial and commercial technologies that have the potential to reduce GHG emissions and CACs from the Canadian marine sector and/or improve vessel efficiency. The purpose of this theme is to test and evaluate technologies and/or designs to better understand their performance in revenue operations, the associated emission reductions and, in some cases, the opportunities for further development.

The Contractor's project must outline the following:

- A detailed description of the technology, its current state of development, and an overview of how the project will advance the technology to (a) higher TRL(s);
- Technologies must have a Technology Readiness Level (TRL) as defined by Innovation Canada of 6-9¹. Higher TRLs will be considered if the technology in question is not in use or was not developed originally for the maritime sector;
- The class of vessel(s) to which this technology is most applicable;
- The integration, testing plan and data analysis methodology;
- The commercial market potential of the technology – including both domestic and international markets;
- Preliminary estimates of the adoption or integration costs of incorporating the technology into a vessel design and/or vessel retrofit;
- A preliminary estimate of the greenhouse gas (GHG) and criteria air contaminant (CAC) emission reduction potentials of the technology, and its impacts on vessel efficiency;
- Identification of any potential challenges or barriers that may prevent the technology and/or design from being implemented in the Canadian Marine sector, and how these challenges could be mitigated; and
- A project risk analysis section that also outlines how identified risks will be mitigated.

Appendix 1 – Marine RD&D Priority Research Streams – Clean Marine

The objective of the Clean Marine stream is to decrease greenhouse gas (GHG) and criteria air contaminants (CAC) emissions from Canadian vessels; this is accomplished through efficiency improvements and/or conducting fundamental clean technology research and validation of clean technologies or design changes. At this time, the Clean Marine stream will focus on two themes within the Canadian marine sector.

ID	Title	Short Description	TRL	Estimated Time Line	Cost Share to TC allowed	Estimated Budget	Number of projects per year	Maximum yearly budget per project
(1a)	Emerging Technologies	Projects under this theme will address fundamental science and research to adapt or develop new technologies to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.	2-5	1-10 years	75%	1.2 M/4 years	1-2	\$150,000
(1b)	Testing and Evaluation of Pre-Commercial and Commercial Technology	Projects under this theme include the testing and validation of pre-commercial and commercially ready technologies that have the potential to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.	6-9	1-5 years	50%	3.5 M/4 years	1-2	\$500,000

Solicitation No. - N° de l'invitation

T8009-190192/A

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

T8009-190192

Amd. No. - N° de la modif.

002

File No. - N° du dossier

Buyer ID - Id de l'acheteur

XLV591

CCC No./N° CCC - FMS No./N° VME

ANNEX B – BASIS OF PAYMENT

The basis of payment will consist of the fixed amounts indicated in the proposal, laid out in milestones as negotiated prior to contract award based on the Bidders proposed budget and work plan.

MILESTONE	DATE	AMOUNT

ANNEX C – FINANCIAL EVALUATION CRITERIA

C1 Introduction

The bidder must submit a project charter and project plan with their bid which includes the project costs in accordance with section C2 Financial Submission.

C2 Financial Submission

The Bidder must provide a detailed budget with their proposal that must indicate, per project milestone, the following:

- Total annual cost based on Government of Canada Fiscal Year of April 1 to March 31
- Total Cost to Bidder and subcontractors if applicable
- Total cost to Transport Canada
- Total Project cost
- The percentage split between Bidder, other entities, and Transport Canada

C3 Mandatory Financial Criteria

The Bidder must meet the following mandatory criteria for their proposal to be declared responsive. Failure to clearly demonstrate the meeting of these requirements will result in the proposal to be found non-responsive and no further consideration of the proposal will occur.

Table C3.1 –Mandatory Financial Criteria

#	Mandatory Financial Criteria	Pass/Fail
M1	The Bidder must submit a budget.	
M2	The budget that the Bidder submits must be firm. Changes to the budget during the contracting phase are only acceptable upon Canada's review and agreement.	
M3	The Bidder must indicate the source of all funds required for the project.	
M4	The budget submitted must be no more than the maximum outlined in Appendix 2 of this Annex.	

C4 Point-Rated Financial Criteria

The Bidder must clearly indicate in their proposal the information required to evaluate the point rated criteria indicated in Table C4.1. Failure to provide the information will result in a point score of zero (0).

Any score of 0 in any of the point ratings will result in the proposal being found non-responsive, and no further consideration of the proposal will occur.

C4.1 Clean Marine: Point-Rated Financial Criteria

C4.1.1 CM1A: Emerging Technologies

The Government of Canada (GoC) will cost share a maximum of 75% for projects submitted under theme 1a.

Table 4-1 – CM1A: Point-Rated Financial Criteria

#	Point-Rated Financial Criteria (out of 50 points)	Points Awarded														
R1	<p>Project Share (out of 25 points)</p> <p>The Bidder will be awarded points by contributing a larger share of the project's total costs.</p> <p>Points will be awarded as below:</p> <table><tr><th>Points</th><th>Percentage score</th></tr><tr><td>25</td><td>Equal to or less than 15% cost share to Canada</td></tr><tr><td>20</td><td>Greater than 15% and less than or equal to 30% cost share to Canada</td></tr><tr><td>15</td><td>Greater than 30% and less than or equal to 45% cost share to Canada</td></tr><tr><td>10</td><td>Greater than 45% and less than or equal to 60% cost share to Canada</td></tr><tr><td>5</td><td>Greater than 60% and less than or equal to 75% cost share to Canada</td></tr><tr><td>0</td><td>Greater than 75% cost share to Canada</td></tr></table>	Points	Percentage score	25	Equal to or less than 15% cost share to Canada	20	Greater than 15% and less than or equal to 30% cost share to Canada	15	Greater than 30% and less than or equal to 45% cost share to Canada	10	Greater than 45% and less than or equal to 60% cost share to Canada	5	Greater than 60% and less than or equal to 75% cost share to Canada	0	Greater than 75% cost share to Canada	<div>/25</div>
Points	Percentage score															
25	Equal to or less than 15% cost share to Canada															
20	Greater than 15% and less than or equal to 30% cost share to Canada															
15	Greater than 30% and less than or equal to 45% cost share to Canada															
10	Greater than 45% and less than or equal to 60% cost share to Canada															
5	Greater than 60% and less than or equal to 75% cost share to Canada															
0	Greater than 75% cost share to Canada															
R2	<p>Funding Availability (out of 25 points)</p> <p>The Bidder will be awarded points based on their ability to demonstrate they have the funding available for the project.</p> <table><tr><th>Points</th><th>Funding Availability</th></tr><tr><td>25</td><td>Bidder demonstrates that they have secured their portion of the project funding.</td></tr><tr><td>10</td><td>Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.</td></tr><tr><td>5</td><td>Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.</td></tr><tr><td>0</td><td>No indication of availability of funds</td></tr></table>	Points	Funding Availability	25	Bidder demonstrates that they have secured their portion of the project funding.	10	Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.	5	Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.	0	No indication of availability of funds	<div>/25</div>				
Points	Funding Availability															
25	Bidder demonstrates that they have secured their portion of the project funding.															
10	Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.															
5	Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.															
0	No indication of availability of funds															

C4.1.2 CM1B: Testing Evaluation of Pre-Commercial and Commercial Technology

The Government of Canada (GoC) will cost share a maximum of 50% for projects submitted under theme 1b.

Table 4-2 – CM1B: Point-Rated Financial Criteria

#	Point-Rated Financial Criteria (out of 50 points)	Points Awarded														
R1	<p>Project Share (out of 25 points)</p> <p>The Bidder will be awarded points by contributing a larger share of the project's total costs.</p> <p>Points will be awarded as below:</p> <table><tr><th>Points</th><th>Percentage score</th></tr><tr><td>25</td><td>Equal to or less than 10% cost share to Canada</td></tr><tr><td>20</td><td>Greater than 10% and less than or equal to 20% cost share to Canada</td></tr><tr><td>15</td><td>Greater than 20% and less than or equal to 30% cost share to Canada</td></tr><tr><td>10</td><td>Greater than 30% and less than or equal to 40% cost share to Canada</td></tr><tr><td>5</td><td>Greater than 40% and less than or equal to 50% cost share to Canada</td></tr><tr><td>0</td><td>Greater than 50% cost share to Canada</td></tr></table>	Points	Percentage score	25	Equal to or less than 10% cost share to Canada	20	Greater than 10% and less than or equal to 20% cost share to Canada	15	Greater than 20% and less than or equal to 30% cost share to Canada	10	Greater than 30% and less than or equal to 40% cost share to Canada	5	Greater than 40% and less than or equal to 50% cost share to Canada	0	Greater than 50% cost share to Canada	/25
Points	Percentage score															
25	Equal to or less than 10% cost share to Canada															
20	Greater than 10% and less than or equal to 20% cost share to Canada															
15	Greater than 20% and less than or equal to 30% cost share to Canada															
10	Greater than 30% and less than or equal to 40% cost share to Canada															
5	Greater than 40% and less than or equal to 50% cost share to Canada															
0	Greater than 50% cost share to Canada															
R2	<p>Funding Availability (out of 25 points)</p> <p>The Bidder will be awarded points based on their ability to demonstrate they have the funding available for the project.</p> <table><tr><th>Points</th><th>Funding Availability</th></tr><tr><td>25</td><td>Bidder demonstrates that they have secured their portion of the project funding.</td></tr><tr><td>10</td><td>Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.</td></tr><tr><td>5</td><td>Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.</td></tr><tr><td>0</td><td>No indication of availability of funds</td></tr></table>	Points	Funding Availability	25	Bidder demonstrates that they have secured their portion of the project funding.	10	Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.	5	Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.	0	No indication of availability of funds	/25				
Points	Funding Availability															
25	Bidder demonstrates that they have secured their portion of the project funding.															
10	Bidder demonstrates that they have secured some of their portion and the remaining source of funds is known.															
5	Bidder demonstrates that they have not secured any of their portion and the remaining source of funds is known.															
0	No indication of availability of funds															

Total Calculation

$R1 + R2 = \text{Total out of 50 Points for the Financial Criterion (which would be a percentage of the total evaluation combined with the technical criterion).}$

Appendix 2 – Maximum Yearly Budget.

This table presents the maximum yearly budget for the two themes underneath the Clean Marine stream:
1a Emerging Technologies and 1b Testing and Evaluation of Pre-Commercial and Commercial Technology.

ID	Title	Short Description	Number of projects per year	Maximum yearly budget per project
(1a)	Emerging Technologies	Projects under this theme will address fundamental science and research to adapt or develop new technologies to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.	1-2	\$150,000
(1b)	Testing and Evaluation of Pre-Commercial and Commercial Technology	Projects under this theme include the testing and validation of pre-commercial and commercially ready technologies that have the potential to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.	1-2	\$500,000

ANNEX D – TECHNICAL CRITERIA

D1 General

- D1.1** The general requirements for Bid Preparation are provided in Part 3 of the Bid Solicitation Package.
- D1.2** The Evaluation Procedure and Basis of Selection is provided Part 4 of the Bid Solicitation Package. The evaluation procedure indicates the composition of the evaluation team. This Annex gives the detailed Evaluation Criteria and Scoring Procedure.
- D1.3** To ensure that a complete technical evaluation of the Bid can be conducted, the Bid must be compliant with all of the bid deliverable requirements, which are summarized under Part 3 of the Bid Solicitation. It is the Bidder's responsibility to clearly demonstrate their capabilities and capacity to meet all requirements stated in the Bid Solicitation, the Bid Requirement and other attachments. Bidders should describe their capabilities, how they will comply with mandatory requirements.
- D1.4** The Bidder should include in their Technical Bid an applicability matrix wherein they identify, by page number, where each of the criteria is addressed in their Bid.

D2 Mandatory Technical Criteria

- D2.1** The Mandatory Technical Criteria are detailed in **Tables D5-1 to Table D5-3**. Each research theme has separate mandatory criteria.
- D2.2** Mandatory Technical Criteria will be assigned either a Pass or Fail by the evaluation team. Any Bid which fails to comply with any Mandatory Criterion will be declared non-responsive.
- D2.3** The Bidder must clearly demonstrate how they meet mandatory requirements, as part of their Proposal, and include any supporting documents, where necessary – e.g. photographs, maps, drawings, calculations, Original Equipment Manufacturer (OEM) specifications, documents, purchase orders (less cost data), job or Quality Control or Quality Assurance record sheets, personnel resumes, current trade certificates, etc.
- D2.4** The Bidder must provide, as part of its Bid, completed **Tables D5-1 to D5-3** providing references by page and section, to their Proposal where each requirement is addressed.

D3 Point-Rated Technical Criteria

- D3.1** The Point-Rated Technical Criteria are detailed in Section D6 – Point-Rated Technical Criteria.
- D3.2** Point rating of criteria, for their technical merit, will be conducted in accordance with Scoring Procedure outlined in Part 4 of the Bid Solicitation.
- D3.3** The Bidder should provide, as part of their submission, a cover sheet that clearly identifies (using page and section references in their proposal) how their Bid addresses each Point-Rated Technical Criteria.

D4 Basis of Selection

Bids, (herein referred to as Proposals), which meet the Mandatory Technical Criteria will subsequently be scored using the Point-Rated Technical Criteria identified in the following sections. Proposals will be rated by a selection committee comprised of Transport Canada technical experts.

Please Note: Transport Canada could ultimately select any proposal that meets Mandatory Technical Criteria, irrespective of its Point-Rated Technical Score. This could be done to ensure that the department is able to fulfil its mandate, fund a variety of technology development projects, avoid the potential for duplicative or redundant studies, and/or encourage the participation of Indigenous peoples.

D5 Mandatory Technical Criteria

D5.1 General Mandatory Technical Criteria for All Proposals

At bid closing time, the Bidder must comply with the following Mandatory Technical Criteria and provide the necessary documentation to demonstrate their compliance. Any bid that fails to meet the following Mandatory Technical Criteria will be declared non-responsive. Each criterion should be addressed separately.

Table D5-1 - Mandatory Technical Criteria for All Proposals

#	Mandatory Technical Criteria	Pass/Fail
M1	<p>The Proposal must include, at a minimum, the following elements:</p> <ul style="list-style-type: none">a) Project Charter;b) Project Overview, including (a) project:<ul style="list-style-type: none">a. Summaryb. Goals, Outcomes and Objectivesc. Scoped. Milestonese. Deliverablesf. Cost Estimates and Sources of Fundingg. Project Risks, Assumptions and Constraints; andc) Project Governance<ul style="list-style-type: none">a. Governanceb. Team Structurec. Roles and Responsibilities <p>Proposals are recommended to use the following format: https://www.canada.ca/en/treasury-board-secretariat/services/information-technology-project-management/project-management/project-charter-template.html#Toc201029881.</p>	
M2	Bidders must clearly identify which stream (as defined in Annex A Appendix 1), their project proposal falls under.	
M3	Projects must start no earlier than April 1, 2020.	
M4	Projects must end no later than March 31, 2024.	
M5	The Bidders' package must include a signed statement of acceptance that they will produce a final report that will be made available publically.	
M6	Bidders must provide a statement of understanding that all reports written and submitted to Transport Canada must follow the style and accessibility guidelines as outlined in the Reports Requirement in Annex A.	

D5.2 Clean Marine Stream: CM1A/CM1B Mandatory Technical Criteria

Under the Clean Marine Stream, there are two themes:

CM1A: Emerging Technologies: Projects under this theme will support fundamental science and research to adapt or develop new technologies to reduce greenhouse gas (GHG) and criteria air contaminant (CAC) emissions from the marine sector, and/or contribute to improving vessel energy efficiency.

CM1B: Testing and Validation of Pre-Commercial and Commercial Technologies: Projects under this theme will support testing of pre-commercial and early commercial technologies that have the potential to reduce GHG and CAC emissions from the Canadian marine sector and/or contribute to improving vessel energy efficiency. The purpose of this theme is to test and evaluate technologies and/or designs to better understand their performance in revenue operations, their emission reduction potential and, in some cases, the opportunities for further development.

The following tables outline the Mandatory Technical Criteria for each theme.

Table D5-2 - CM1A - Clean Marine Emerging Technologies: Mandatory Technical Criteria

#	Mandatory Technical Criteria	Pass/Fail
CM1A-M1	The Proposal must include a detailed description of the technology, its current state of development, and an overview of how the project will advance the technology to (a) higher TRL(s).	
CM1A-M2	The Proposal must demonstrate that the technology has a TRL level of 2-5, as defined by Innovation Canada.* * https://www.ic.gc.ca/eic/site/080.nsf/eng/00002.html	
CM1A-M3	The Proposal must indicate the class of vessel(s) to which this technology is most applicable.	
CM1A-M4	The Proposal must include a discussion of the Bidder's perspective of the commercial market potential of the technology – including both domestic and international markets.	
CM1A-M5	The Proposal must include the Bidder's preliminary estimates of the adoption or integration costs of incorporating the technology into a vessel design and/or vessel retrofit.	
CM1A-M6	The Proposal must include a preliminary estimate of the greenhouse gas (GHG) and criteria air contaminant (CAC) emission reduction potentials of the technology, and its impacts on vessel efficiency.	
CM1A-M7	The Proposal must include a comprehensive overview of any potential challenges or barriers that may prevent the technology and/or design from being implemented in the Canadian Marine sector, and how these challenges could be mitigated.	
CM1A-M8	The Proposal must include a project risk analysis section that also outlines how identified risks will be mitigated.	

Table D5-3 - CM1B - Clean Marine Testing & Validation of Pre-commercial and Commercial Technologies: Mandatory Technical Criteria

#	Mandatory Technical Criteria	Pass/Fail
CM1B-M1	The Proposal must include a detailed description of the technology, its current state of development, and an overview of how the project will advance the technology to (a) higher TRL(s).	
CM1B-M2	The Proposal must demonstrate that the technology has a TRL level of 6-9, as defined by Innovation Canada.* * https://www.ic.gc.ca/eic/site/080.nsf/eng/00002.html	
CM1B-M3	The Proposal must indicate the class of vessel(s) to which this technology is most applicable.	
CM1B-M4	The Proposal must include an indication of the integration requirements of the technology, testing plan, and data analysis methodology.	
CM1B-M5	The Proposal must include a discussion of the Bidder's perspective of the commercial market potential of the technology – including both domestic and international markets.	
CM1B-M6	The Proposal must include the Bidder's preliminary estimates of the adoption or integration costs of incorporating the technology into a vessel design and/or vessel retrofit.	
CM1B-M7	The Proposal must include a preliminary estimate of the greenhouse gas (GHG) and criteria air contaminant (CAC) emission reduction potential of the technology, and its impacts on vessel efficiency.	
CM1B-M8	The Proposal must include a comprehensive overview of any potential challenges or barriers that may prevent the technology and/or design from being implemented in the Canadian Marine sector, and how these challenges could be mitigated.	
CM1B-M9	The Proposal must include a project risk analysis section that also outlines how identified risks will be mitigated.	

D6 Point-Rated Technical Criteria

D6.1 Clean Marine Stream: CM1A/CM1B Point-Rated Technical Criteria

Under the Clean Marine Stream, there are two themes:

CM1A: Emerging Technologies: Projects under this theme will support fundamental science and research to adapt or develop new technologies to reduce GHG and CAC emissions from the marine sector, and/or improve vessel efficiency.

CM1B: Testing & Validation of Pre-Commercial and Commercial Technologies: Projects under this theme will support testing of pre-commercial and early commercial technologies that have the potential to reduce GHG emissions and CACs from the Canadian marine sector and/or improve vessel efficiency.

The following tables outline the Point-Rated Technical Criteria for each theme.

Table D6-1 - CM1A - Emerging Technologies: Point-Rated Technical Criteria

#	Point-Rated Technical Criteria (out of 115 points)	Points Received														
CM1A-R1	<p>Project implementation readiness (out of 10 points)</p> <p>Proposals will be scored based on anticipated project start dates, in order to encourage timely execution, and ensure deliverables are aligned with available program funding. Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Project Start</th></tr><tr><td>10</td><td>Before March 31, 2021</td></tr><tr><td>7</td><td>Between April 1, 2021 – March 31, 2022</td></tr><tr><td>3</td><td>Between April 1, 2022 – March 31, 2023</td></tr><tr><td>1</td><td>Between April 1, 2023 – March 31, 2024</td></tr><tr><td>0</td><td>Project start not clearly defined</td></tr></table>	Points	Project Start	10	Before March 31, 2021	7	Between April 1, 2021 – March 31, 2022	3	Between April 1, 2022 – March 31, 2023	1	Between April 1, 2023 – March 31, 2024	0	Project start not clearly defined	/10		
Points	Project Start															
10	Before March 31, 2021															
7	Between April 1, 2021 – March 31, 2022															
3	Between April 1, 2022 – March 31, 2023															
1	Between April 1, 2023 – March 31, 2024															
0	Project start not clearly defined															
CM1A-R2	<p>Point-source CO₂e emission reduction (out of 50 points)</p> <p>Proposals will be scored based on the estimated potential of the technology under investigation to reduce CO₂e emissions. The Bidder should provide emission reduction estimates for the technology – either in a percentage reduction (%).* Percentage reductions must be provided at the vessel level.</p> <p><i>* The Bidder should outline all assumptions made in calculating their estimated reduction, including operating and environmental conditions, baseline comparisons, and limitations.</i></p> <p>Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Expected reduction (%) vs. identified baseline condition</th></tr><tr><td>50</td><td>Greater than or equal to 90% CO₂e emissions reduction</td></tr><tr><td>40</td><td>Less than 90% and greater than or equal to 75% CO₂e emissions reduction</td></tr><tr><td>30</td><td>Less than 75% and greater than or equal to 50% CO₂e emissions reduction</td></tr><tr><td>20</td><td>Less than 50% and greater than or equal to 25% CO₂e emissions reduction</td></tr><tr><td>10</td><td>Less than 25% and greater than or equal to 5% CO₂e emissions reduction</td></tr><tr><td>0</td><td>Less than 5% CO₂e emissions reduction</td></tr></table>	Points	Expected reduction (%) vs. identified baseline condition	50	Greater than or equal to 90% CO ₂ e emissions reduction	40	Less than 90% and greater than or equal to 75% CO ₂ e emissions reduction	30	Less than 75% and greater than or equal to 50% CO ₂ e emissions reduction	20	Less than 50% and greater than or equal to 25% CO ₂ e emissions reduction	10	Less than 25% and greater than or equal to 5% CO ₂ e emissions reduction	0	Less than 5% CO ₂ e emissions reduction	/50
Points	Expected reduction (%) vs. identified baseline condition															
50	Greater than or equal to 90% CO ₂ e emissions reduction															
40	Less than 90% and greater than or equal to 75% CO ₂ e emissions reduction															
30	Less than 75% and greater than or equal to 50% CO ₂ e emissions reduction															
20	Less than 50% and greater than or equal to 25% CO ₂ e emissions reduction															
10	Less than 25% and greater than or equal to 5% CO ₂ e emissions reduction															
0	Less than 5% CO ₂ e emissions reduction															
CM1A-R3	<p>Point-source Criteria Air Contaminants (CAC) emission reduction (out of 50)</p> <p>Proposals will be scored based on the estimated potential of the technology under investigation to reduce CACs at the source (the vessel).</p>	/50														

For this rated criteria, CACs are defined as:

- Total particulate matter (TPM)
- Sulphur oxides (SO_x)
- Nitrogen oxides (NO_x)

The Bidder should provide emission reduction estimates for the technology – as a percentage reduction (%) at the vessel level.

** The Bidder should outline all assumptions made in calculating their estimated reduction, including operating and environmental conditions, baseline comparisons, and limitations.*

Points will be awarded as follows:

Points	Expected reduction
50	Greater than or equal to 90% CAC emissions reduction
40	Less than 90% and greater than or equal to 75% CAC emissions reduction
30	Less than 75% and greater than or equal to 50% CAC emissions reduction
20	Less than 50% and greater than or equal to 25% CAC emissions reduction
10	Less than 25% and greater than or equal to 5% CAC emissions reduction
0	Less than 5% CAC emissions reduction

CM1A-R4

Lifecycle emissions (out of 5 points)

Proposals that include a discussion about the potential lifecycle emissions of the proposed technology will be awarded additional points. Where applicable, this discussion should be based on (reference) published, and widely-accepted lifecycle emission analysis procedures/methodologies.

Points	Bidder presents lifecycle emissions
5	Yes, and is based on widely-accepted procedures/methodologies
0	No information provided, or the information provided does not conform to widely-accepted procedures/methodologies

/5

CM1A-
R5**Proposed approach to integration and testing (out of 20 points)**

Proposals will be scored based upon the detail of the proposed approach to integration (i.e. impacts on operation, safety, etc.) and testing (i.e. experimental design, procedures, assumptions, etc.).

Points will be awarded as follows:

Points	Integration
20	Bidder provides a comprehensive description of their proposed technical approach with significant added insights. The Bidder identifies all of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a detailed description of potential risks and risk mitigation strategies; and clearly identifies and discusses all assumptions they make in their proposed approach.
15	Bidder provides a complete description of their proposed technical approach with some added insights. The Bidder identifies most of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a description of potential risks and risk mitigation strategies, and identifies most assumptions they make in the proposed approach.
10	Bidder provides a general description of their proposed technical approach with a few added insights. The Bidder identifies the major technical issues to be addressed; provides a high-level methodology/approach to addressing the issues; provides a limited description of potential risks and risk mitigation strategies, and identifies only major assumptions they make in their proposed approach.
5	Bidder provides an incomplete description of their proposed technical approach with no added insights. The Bidder does not identify technical issues to be addressed; provides an incomplete methodology/approach to addressing the issues; provides no description of potential risks and risk mitigation strategies, and does not identify any details on assumptions they make in their proposed approach.
0	Bidder does not provide a proposed approach to integration and testing.

/20

Table D6-2 - CM1B - Testing & Validation of Pre-Commercial and Commercial Technologies: Point-Rated Technical Criteria

#	Point-Rated Technical Criteria (out of 150 points)	Points Received														
CM1B-R1	<p>Project implementation readiness (out of 10 points)</p> <p>Proposals will be scored based on anticipated project start dates, in order to encourage timely execution, and ensure deliverables are aligned with available program funding.</p> <p>Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Project Start</th></tr><tr><td>10</td><td>Before March 31, 2021</td></tr><tr><td>7</td><td>Between April 1, 2021 – March 31, 2022</td></tr><tr><td>3</td><td>Between April 1, 2022 – March 31, 2023</td></tr><tr><td>1</td><td>Between April 1, 2023 – March 31, 2024</td></tr><tr><td>0</td><td>Project start not clearly defined</td></tr></table>	Points	Project Start	10	Before March 31, 2021	7	Between April 1, 2021 – March 31, 2022	3	Between April 1, 2022 – March 31, 2023	1	Between April 1, 2023 – March 31, 2024	0	Project start not clearly defined	/10		
Points	Project Start															
10	Before March 31, 2021															
7	Between April 1, 2021 – March 31, 2022															
3	Between April 1, 2022 – March 31, 2023															
1	Between April 1, 2023 – March 31, 2024															
0	Project start not clearly defined															
CM1B-R2	<p>Point-source CO₂e emission reduction (out of 50 points)</p> <p>Proposals will be scored based upon the estimated potential of the technology under investigation to reduce CO₂e emissions. The Bidder should provide emission reduction estimates for the technology – either in a percentage reduction (%) or (tonnes). * Percentage reductions must be provided at the vessel level.</p> <p><i>* The Bidder should outline all assumptions made in calculating their estimated reduction, including operating and environmental conditions, baseline comparisons, and limitations.</i></p> <p>Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Expected reduction (%) vs. identified baseline condition</th></tr><tr><td>50</td><td>Greater than or equal to 90% CO₂e emissions reduction</td></tr><tr><td>40</td><td>Less than 90% and greater than or equal to 75% CO₂e emissions reduction</td></tr><tr><td>30</td><td>Less than 75% and greater than or equal to 50% CO₂e emissions reduction</td></tr><tr><td>20</td><td>Less than 50% and greater than or equal to 25% CO₂e emissions reduction</td></tr><tr><td>10</td><td>Less than 25% and greater than or equal to 5% CO₂e emissions reduction</td></tr><tr><td>0</td><td>Less than 5% CO₂e emissions reduction</td></tr></table>	Points	Expected reduction (%) vs. identified baseline condition	50	Greater than or equal to 90% CO ₂ e emissions reduction	40	Less than 90% and greater than or equal to 75% CO ₂ e emissions reduction	30	Less than 75% and greater than or equal to 50% CO ₂ e emissions reduction	20	Less than 50% and greater than or equal to 25% CO ₂ e emissions reduction	10	Less than 25% and greater than or equal to 5% CO ₂ e emissions reduction	0	Less than 5% CO ₂ e emissions reduction	/50
Points	Expected reduction (%) vs. identified baseline condition															
50	Greater than or equal to 90% CO ₂ e emissions reduction															
40	Less than 90% and greater than or equal to 75% CO ₂ e emissions reduction															
30	Less than 75% and greater than or equal to 50% CO ₂ e emissions reduction															
20	Less than 50% and greater than or equal to 25% CO ₂ e emissions reduction															
10	Less than 25% and greater than or equal to 5% CO ₂ e emissions reduction															
0	Less than 5% CO ₂ e emissions reduction															

CM1B-R3	<p>Point-source Criteria Air Contaminants (CAC) emission reduction (out of 50 points)</p> <p>Proposals will be scored based upon the estimated potential of the technology under investigation to reduce CACs at the source (the vessel).</p> <p>For this rated criteria, CACs are defined as:</p> <ul style="list-style-type: none">• Total particulate matter (TPM)• Sulphur oxides (SO_x)• Nitrogen oxides (NO_x) <p>The Bidder should provide emission reduction estimates for the technology – as a percentage reduction (%) at the vessel level.</p> <p><i>* The Bidder should outline all assumptions made in calculating their estimated reduction, including operating and environmental conditions, baseline comparisons, and limitations.</i></p> <p>Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Expected reduction</th></tr><tr><td>50</td><td>Greater than or equal to 90% CAC emissions reduction.</td></tr><tr><td>40</td><td>Less than 90% and greater than or equal to 75% CAC emissions reduction.</td></tr><tr><td>30</td><td>Less than 75% and greater than or equal to 50% CAC emissions reduction.</td></tr><tr><td>20</td><td>Less than 50% and greater than or equal to 25% CAC emissions reduction.</td></tr><tr><td>10</td><td>Less than 25% and greater than or equal to 5% CAC emissions reduction.</td></tr><tr><td>0</td><td>Less than 5% CAC emissions reduction.</td></tr></table>	Points	Expected reduction	50	Greater than or equal to 90% CAC emissions reduction.	40	Less than 90% and greater than or equal to 75% CAC emissions reduction.	30	Less than 75% and greater than or equal to 50% CAC emissions reduction.	20	Less than 50% and greater than or equal to 25% CAC emissions reduction.	10	Less than 25% and greater than or equal to 5% CAC emissions reduction.	0	Less than 5% CAC emissions reduction.	/50
Points	Expected reduction															
50	Greater than or equal to 90% CAC emissions reduction.															
40	Less than 90% and greater than or equal to 75% CAC emissions reduction.															
30	Less than 75% and greater than or equal to 50% CAC emissions reduction.															
20	Less than 50% and greater than or equal to 25% CAC emissions reduction.															
10	Less than 25% and greater than or equal to 5% CAC emissions reduction.															
0	Less than 5% CAC emissions reduction.															
CM1B-R4	<p>Lifecycle emissions (out of 20 points)</p> <p>Proposals that include a discussion about the potential lifecycle emissions of the proposed technology will be awarded additional points. Where applicable, this discussion should be based on (reference) published, and widely-accepted lifecycle emission analysis procedures/methodologies.</p> <table><tr><th>Points</th><th>Bidder presents lifecycle emissions</th></tr><tr><td>20</td><td>Yes, and is based on widely-accepted procedures/methodologies.</td></tr><tr><td>0</td><td>No information provided, or the information provided does not conform to widely-accepted procedures/methodologies.</td></tr></table>	Points	Bidder presents lifecycle emissions	20	Yes, and is based on widely-accepted procedures/methodologies.	0	No information provided, or the information provided does not conform to widely-accepted procedures/methodologies.	/20								
Points	Bidder presents lifecycle emissions															
20	Yes, and is based on widely-accepted procedures/methodologies.															
0	No information provided, or the information provided does not conform to widely-accepted procedures/methodologies.															

CM1B-R5	<p>Proposed approach to integration and testing (out of 20 points)</p> <p>Proposals will be scored based upon the detail of the proposed approach to integration (i.e. impacts on operation, safety, etc.) and testing (i.e. experimental design, procedures, assumptions, etc.).</p> <p>Points will be awarded as follows:</p> <table><tr><th>Points</th><th>Integration and Testing</th></tr><tr><td>20</td><td>Bidder provides a comprehensive description of their proposed technical approach with significant added insights. The Bidder identifies all of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a detailed description of potential risks and risk mitigation strategies; and clearly identifies and discusses all assumptions they make in their proposed approach.</td></tr><tr><td>15</td><td>Bidder provides a complete description of their proposed technical approach with some added insights. The Bidder identifies most of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a description of potential risks and risk mitigation strategies, and identifies most assumptions they make in the proposed approach.</td></tr><tr><td>10</td><td>Bidder provides a general description of their proposed technical approach with a few added insights. The Bidder identifies the major technical issues to be addressed; provides a high-level methodology/approach to addressing the issues; provides a limited description of potential risks and risk mitigation strategies, and identifies only major assumptions they make in their proposed approach.</td></tr><tr><td>5</td><td>Bidder provides an incomplete description of their proposed technical approach with no added insights. The Bidder does not identify technical issues to be addressed; provides an incomplete methodology/approach to addressing the issues; provides no description of potential risks and risk mitigation strategies, and does not identify any details on assumptions they make in their proposed approach.</td></tr><tr><td>0</td><td>Bidder does not provide a proposed approach to integration and testing.</td></tr></table>	Points	Integration and Testing	20	Bidder provides a comprehensive description of their proposed technical approach with significant added insights. The Bidder identifies all of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a detailed description of potential risks and risk mitigation strategies; and clearly identifies and discusses all assumptions they make in their proposed approach.	15	Bidder provides a complete description of their proposed technical approach with some added insights. The Bidder identifies most of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a description of potential risks and risk mitigation strategies, and identifies most assumptions they make in the proposed approach.	10	Bidder provides a general description of their proposed technical approach with a few added insights. The Bidder identifies the major technical issues to be addressed; provides a high-level methodology/approach to addressing the issues; provides a limited description of potential risks and risk mitigation strategies, and identifies only major assumptions they make in their proposed approach.	5	Bidder provides an incomplete description of their proposed technical approach with no added insights. The Bidder does not identify technical issues to be addressed; provides an incomplete methodology/approach to addressing the issues; provides no description of potential risks and risk mitigation strategies, and does not identify any details on assumptions they make in their proposed approach.	0	Bidder does not provide a proposed approach to integration and testing.
Points	Integration and Testing												
20	Bidder provides a comprehensive description of their proposed technical approach with significant added insights. The Bidder identifies all of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a detailed description of potential risks and risk mitigation strategies; and clearly identifies and discusses all assumptions they make in their proposed approach.												
15	Bidder provides a complete description of their proposed technical approach with some added insights. The Bidder identifies most of the technical issues to be addressed; provides a detailed methodology/approach to addressing the issues; includes a description of potential risks and risk mitigation strategies, and identifies most assumptions they make in the proposed approach.												
10	Bidder provides a general description of their proposed technical approach with a few added insights. The Bidder identifies the major technical issues to be addressed; provides a high-level methodology/approach to addressing the issues; provides a limited description of potential risks and risk mitigation strategies, and identifies only major assumptions they make in their proposed approach.												
5	Bidder provides an incomplete description of their proposed technical approach with no added insights. The Bidder does not identify technical issues to be addressed; provides an incomplete methodology/approach to addressing the issues; provides no description of potential risks and risk mitigation strategies, and does not identify any details on assumptions they make in their proposed approach.												
0	Bidder does not provide a proposed approach to integration and testing.												

/20

Solicitation No. - N° de l'invitation
T8009-190192/A
Client Ref. No. - N° de réf. du client
T8009-190192

Amd. No. - N° de la modif.
002
File No. - N° du dossier

Buyer ID - Id de l'acheteur
XLV591
CCC No./N° CCC - FMS No./N° VME

D7 Submission Templates

D7.1 The template for project experience is presented in the table below:

Table 1. Project Overview Table Summary

#	Project Name	Objective / Responsibilities / Approach	Client Org.	Role	Start Date	End Date

The template for the experience overview (related to R4) is presented in the table below. Note that the experience must be listed from most recent to least recent up to a maximum of 15 years:

Table 2. Job Experience Table

Job Title	Organization	Responsibilities	Start	End

Solicitation No. - N° de l'invitation

T8009-190192/A

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

T8009-190192

Amd. No. - N° de la modif.

002

File No. - N° du dossier

Buyer ID - Id de l'acheteur

XLV591

CCC No./N° CCC - FMS No./N° VME

ANNEX E – ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ Direct Deposit;
- ☐ Electronic Data Interchange;

ANNEX F – FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY – CERTIFICATION

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

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

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

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Bidder certifies having no work force in Canada.
- ☐ A2. The Bidder certifies being a public sector employer.
- ☐ A3. The Bidder certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

- ☐ A5.1. The Bidder certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

OR

- ☐ A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity \(LAB1168\)](#) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- ☐ B1. The Bidder is not a Joint Venture.

OR

- ☐ B2. The Bidder is a Joint venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

ANNEX G – TENDER DELIVERABLES

G1.1 Mandatory Tender Deliverables Checklist

Notwithstanding deliverable requirements specified anywhere else within this bid solicitation and its associated Requirement (Annex A), mandatory deliverables that must be submitted with the Bidder's tender to be deemed responsive, are summarized below.

The following are mandatory and the Bidder's submission will be evaluated against the requirement as defined herein. The Bidder must be determined to be compliant on each item to be considered responsive.

No	Solicitation Part	Reference	Description	Document provided
1	Front page	Front page	<u>Request for Proposal</u> document part 1 page 1 completed and signed;	<input type="checkbox"/>
2	3	Article 3.1 Section I Annex D	Technical Bid Submission	<input type="checkbox"/>
3	3	Article 3.1 Section II, Annex C	Financial Bid submission, completed	<input type="checkbox"/>
4	2	Part 2.3 and Annex F	Completed Annex F.	<input type="checkbox"/>
5	5	5.1.2	If Applicable - A copy of section 5.1.2 Canadian Content indicating in the space provided if company is certifying they meet Canadian Content requirements. If not submitted, bid will be considered as not being Canadian Content Certificated	<input type="checkbox"/>
6	6	6.17	If applicable - Any Joint Venture bidding must be in accordance with <u>2003</u> (2019-03-04) Standard Instructions - Goods or Services - Competitive Requirements section 17 – Joint Venture. If one member has been appointed to act on behalf of all members of the joint venture a document supporting that appointment must be provided with the bid.	<input type="checkbox"/>

G1.2 Supporting Deliverable Requirements

If the following information which supports the bid is not submitted with the Bid; it may be requested by the Contracting Authority, and it must be provided within 48 hours of the written request:

No	Solicitation Part	Reference	Description	Condition	Document provided
1	Part 6	6.9	Applicable Laws (if applicable)	48 hours of written request	<input type="checkbox"/>
2	6	Articles 6.5.3, Annex D	Contractor's Representatives, table completed	48 hours of written request	<input type="checkbox"/>
3	Annex F	3.1.5.2	Electronic Payment Instruments	48 hours of written request	<input type="checkbox"/>
4	5	5.1.1	Integrity Provisions – List of Names, completed	48 hours of written request	<input type="checkbox"/>

G1.3 Contractor's Representatives

The bidder is to complete table below and submit with their bid.

Contact for:	Name	Telephone	Email
Contracting issues			
Technical issues			
Invoicing issues			