



<p><b>RETURN BIDS TO:</b> <b>RETOURNER LES SOUMISSIONS</b> À:</p> <p><b>Bid Receiving - Environment and Climate Change Canada / Réception des soumissions – Environnement et changement climatique Canada</b></p> <p><b>Electronic Copy:</b> <a href="mailto:soumissionsbids@ec.gc.ca">soumissionsbids@ec.gc.ca</a></p> <p><b>BID SOLICITATION AMENDMENT MODIFICATION DE LA DEMANDE DE SOUMISSIONS</b></p> <p>The referenced Bid Solicitation is revised in this document; unless otherwise indicated, all other terms and conditions of the Bid Solicitation remain the same.</p> <p>La demande de soumissions citée en référence est modifiée dans ce document; sauf indication contraire, les modalités de la demande de soumissions demeurent les mêmes.</p>	<p><b>Title – Titre</b> <b>Flood Frequency Analysis (FFA) Manual for Hydrotechnical Practitioners in Canada</b></p>	
	<p><b>EC Bid Solicitation No. /SAP No. – N° de la demande de soumissions EC / N° SAP</b> 5000075974</p>	<p><b>Amendment No. - N° de modification</b> 002</p>
	<p><b>Amendment Date (YYYY-MM-DD) – Date de la modification (AAAA-MM-JJ)</b> 2024-03-19</p>	
	<p><b>Bid Solicitation Closes (YEAR-MM-DD) - La demande de soumissions prend fin (AAAA-MM-JJ)</b>  at – à 2:00 P.M.  on – le 2024-04-02</p>	<p><b>Time Zone – Fuseau horaire</b> Eastern Daylight Time (EDT)</p>
	<p>F.O.B – F.A.B See herein</p>	
	<p><b>Address Enquiries to - Adresser toutes questions à</b> <a href="mailto:maureen.mateush@ec.gc.ca">maureen.mateush@ec.gc.ca</a></p>	
	<p><b>Telephone No. – N° de téléphone</b> 431-813-6439</p>	<p><b>Fax No. – N° de Fax</b> n/a</p>
	<p><b>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ)</b> See herein</p>	
	<p><b>Destination of Services / Destination des services</b> See herein</p>	
	<p><b>Security / Sécurité</b> There is no security requirement associated with this solicitation</p>	
	<p><b>Vendor/Firm Name and Address - Raison sociale et adresse du fournisseur/de l'entrepreneur</b></p>	
	<p><b>Telephone No. – N° de téléphone</b></p>	<p><b>Fax No. – N° de Fax</b></p>
	<p><b>Name and title of person authorized to sign on behalf of Vendor/Firm:</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur</b></p>	
<p><b>Signature</b></p>	<p><b>Date</b></p>	



**AMENDMENT NO. 002**

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Amendment 002 is raised to revise the Request for Proposal (RFP) and provide answers to questions from Suppliers.

**RFP REVISIONS**

1. At Annex A – Statement of Work, Section 3.2 Optional Task 2 - Volume 2 of FFA Manual (optional, with to move forward by ECCC)

**DELETE:**      b. Stage-stage methods for transferring information upstream or downstream on the same reach

**QUESTIONS AND ANSWERS**

No.	Question	Answer
1	We would like to respectfully request a three (3) week extension to the solicitation bid close date.	The bid closing date has been extended to April 02, 2024.
2	Part 1, General Information (Page 4 of 42), Item 1.2.2 - "Bidders must provide a list of names, or other related information as needed, pursuant to section 01 Integrity Provisions of Standard Instructions 2003 - Standard Instructions - Goods or Services - Competitive Requirements (2023-06-08).  a. The link provided is not active. Please provide document or active link to document.	a. <a href="https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/27">https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/27</a>
3	Attachment 1 to Part 4 (Page 24-25 of 42), Mandatory Technical Criteria M1, M2 and M3 refer to the requirements for the Technical Lead and in Point-Rated Technical Criteria PR 4, (Page 30 of 42) references Project Manager Experience.  a. Is the Project Manager the Technical Lead referenced in M1, M2 and M3 or is this an additional position?  b. If this is an additional position, please advise the requirements for this position.  c. Can the Technical Lead and the Project Manager be the same individual team member?	a. The proposed Project Manager and Technical Lead can be the same resource, or it can be two different resources.  b. There are no Mandatory Technical Criteria for the Project Manager; only Point-Rated Technical Criteria PR4 factors in the Project Manager.  c. Yes



No.	Question	Answer
4	<p>Attachment 1 to Part 4 (Page 25 of 42) Mandatory Technical Criterion M5</p> <p>a. The Bidder must provide four (4) prior completed projects that demonstrate the proposed resources experience estimating design flows for flood hazard related engineering projects using both methods for gauged locations (relating to Volume 1 of the Scope of Work) and methods on ungauged or poorly gauged locations (relating to Volume 2 of the Scope of Work).</p> <p>i. Does this reference projects completed by individual team members (Technical Lead and additional resource) or corporate experience?</p> <p>ii. Is this for a total of 8 prior completed projects</p> <ol style="list-style-type: none"> <li>1. 4 gauged or 2 gauged for each team member (Technical Lead and additional resource)</li> <li>2. 4 ungauged or 2 ungauged for each team member (Technical Lead and additional resource)</li> </ol> <p>iii. Can the projects be in progress?</p> <p>b. To demonstrate this requirement, the Bidder must provide four (4) project examples for both gauged and ungauged design flow estimation. It is acceptable for a project to count for both gauged and ungauged estimation methods if both were used. The projects must have been completed by the Bidder within the last ten (10) years.</p> <p>i. Does this reference corporate project examples?</p> <p>ii. Is this for a total of 8 project examples: 4 gauged and 4 ungauged? Or Is this for a total of 4 project examples: 2 gauged and 2 ungauged?</p>	<p>a.</p> <ol style="list-style-type: none"> <li>i. This references projects completed by individual team members, i.e. the projects must be completed by any of the proposed resource(s) on the Bidder's proposed team.</li> <li>ii. A project that includes both gauged and ungauged frequency analysis can count for both categories whereby only four (4) project examples would be required. There can be any combination of projects that count for one, the other, or both categories beyond this, as long as 4 project examples each of gauged and ungauged are included. Two examples of projects submitted in meeting M5 are provided below for clarification. <u>Example 1:</u> 2 projects that do both gauged and ungauged, 2 projects that are gauged only, and 2 projects that are ungauged only, for a total of 6 project examples. <u>Example 2:</u> 8 completely separate project examples of 4 gauged only, and 4 ungauged only.</li> <li>iii. No. The projects must be <u>completed</u> within the last ten (10) years of the bid solicitation closing date.</li> </ol> <p>b.</p> <ol style="list-style-type: none"> <li>i. No, this is resource experience only, whereby any of the proposed resource(s) on the Bidder's proposed team must have participated in the project.</li> <li>ii. See answer provided for 4a.ii. above</li> </ol>



No.	Question	Answer
5.	<p>With regard to the Scope of Work, Section 3.2 of Annex A, Optional Task 2 – Volume 2 of FFA Manual, which specifies FFA methods that must be covered in the FFA Manual, we are seeking clarity on the following two methods:</p> <p>b. Stage-stage methods for transferring information upstream or downstream on the same reach.</p> <p>e. Geospatial methods, including interpolation from other nearby gauges with similar characteristics.</p> <p>Are you able to provide additional context for these two methods, and/or references?</p>	<p>b. Stage-stage methods refer to interpolation of stage between one site with a long record and one site with a short record on the same reach of a river. This can be used to increase confidence in FFA on a site with a limited record.</p> <p>After consideration, the Request for Proposal (RFP) has been amended above in RFP revisions indicating the stage-stage method is not a mandatory inclusion in the manual.</p> <p>e. Geospatial methods refer to all methods that use spatial interpolation to transfer peak flow information from gauged watersheds to ungauged watersheds based on spatial proximity and similarity of watershed characteristics (e.g. watershed area, slope, elevation range, landcover characteristics).</p>
6	<p>Is there an ECCC template and/or writing guide that the Contractor would be required to follow when drafting the FFA manual?</p>	<p>There is no specific template that must be followed when writing the manual. However, potential bidders can refer to the documents in the Federal Flood Mapping Guidelines Series for an idea of the general format that should be followed.</p> <p><a href="https://natural-resources.canada.ca/science-and-data/science-and-research/natural-hazards/flood-mapping/federal-flood-mapping-guidelines-series/25214">https://natural-resources.canada.ca/science-and-data/science-and-research/natural-hazards/flood-mapping/federal-flood-mapping-guidelines-series/25214</a></p>
7.	<p>The timeframe between the likely award date for this project and the deadline for the Virtual Presentation (May 17, 2024) is quite short.</p> <p>We believe that much of the required effort for the project, including the research/literature review, software evaluation, and development of the worked examples, will need to be completed in advance of this presentation, with just the drafting of the manual to follow. As such, would ECCC be flexible on the timing of the Virtual Presentation if the draft and final manuals can be delivered on or before ECCC's milestone dates listed in Part 7, Resulting Contract, Table 7.7.3 – Schedule of Milestones?</p>	<p>The project schedule can be re-assessed once the project is awarded to determine a reasonable timeline for deliverables and milestones.</p>
8.	<p>Can the FFA manuals contain a disclaimer statement that specifies or places limits on legal liability to the firm that drafts it (and likely ECCC)?</p>	<p>ECCC's final document will be published with a legal liability disclaimer.</p>



No.	Question	Answer									
9.	Do projects where the frequency analysis work has been completed but the resulting flood mapping or flood hazard assessment is ongoing qualify as experience under the Mandatory Criteria M5 and Point-Rated Criteria PR3/PR4?	If the frequency analysis work is complete (including a referenceable report), the project may be included as an example for mandatory and point rated criteria.									
10	<p>The quality of the project deliverables would benefit from additional time. As such, would ECCC consider an alternative schedule for Annex A – 5.0 Milestones - Task 1 whereby the delivery of deliverables could be extended by 30-60 days?</p> <p><b>Context for shifting the Task 1 end date and scheduled deliverables by 30-60 days:</b></p> <ul style="list-style-type: none"> <li>- The current timeline only provides 6 weeks to develop all method descriptions and examples for the virtual presentation on May 17, 2024. Given the number of methods to be included in the manual, shifting the schedule 30 to 60 days will allow for more well thought out and meaningful method descriptions and examples to be presented to ECCC for discussion at the virtual presentation and inclusion in the manual.</li> <li>- The proposed schedule change still provides ECCC with the opportunity to review Task 1 / Volume One deliverables prior to deciding to proceed to Task 2. Thus the schedule for Task 2 remains as originally proposed.</li> </ul> <p>Proposed Alternative Schedule:</p> <table border="1" data-bbox="277 1398 824 1818"> <thead> <tr> <th data-bbox="277 1398 483 1623">TASK 1</th> <th data-bbox="483 1398 670 1623">Period of Initial Contract (April 1, 2024 – September 20, 2024)</th> <th data-bbox="670 1398 824 1623">Proposed Schedule (Maximum change - 60 days forward)</th> </tr> </thead> <tbody> <tr> <td data-bbox="277 1623 483 1692">Project kickoff meeting</td> <td data-bbox="483 1623 670 1692">On or before April 5, 2024</td> <td data-bbox="670 1623 824 1692">On or before April 5, 2024</td> </tr> <tr> <td data-bbox="277 1692 483 1818">Virtual Presentation for Task One to ECCC</td> <td data-bbox="483 1692 670 1818">On or before May 17, 2024</td> <td data-bbox="670 1692 824 1818">On or before July 17, 2024</td> </tr> </tbody> </table>	TASK 1	Period of Initial Contract (April 1, 2024 – September 20, 2024)	Proposed Schedule (Maximum change - 60 days forward)	Project kickoff meeting	On or before April 5, 2024	On or before April 5, 2024	Virtual Presentation for Task One to ECCC	On or before May 17, 2024	On or before July 17, 2024	As in No 7, the project schedule can be re-assessed once the project is awarded to determine a reasonable timeline for deliverables and milestones.
TASK 1	Period of Initial Contract (April 1, 2024 – September 20, 2024)	Proposed Schedule (Maximum change - 60 days forward)									
Project kickoff meeting	On or before April 5, 2024	On or before April 5, 2024									
Virtual Presentation for Task One to ECCC	On or before May 17, 2024	On or before July 17, 2024									



No.	Question			Answer
	Volume One draft delivered to ECCC	On or before July 12, 2024	On or before September 17, 2024	
	ECCC comments to Contractor	On or before August 2, 2024	On or before October 8, 2024	
	Volume One final report received	On or before September 6, 2024	On or before October 29, 2024	
11	<p>Section 3.1 (Task 1 – Volume 1 of FFA Manual), which specifies FFA methods that must be covered in the FFA Manual.</p> <p>a. <b>Lake Level</b> - Is dependence modelling an implicit requirement under lake level frequency analysis or can dependence modelling be added as a method for consideration?</p> <p>b. <b>Hydraulic Modelling</b> - unclear how this method is applied to ungauged watersheds. Is this method intended for the transposition of a flood hydrograph? Or for use to estimate a large flood event not captured in the gauged record? Please clarify.</p>			<p>a. Dependence modelling could be considered within the category of lake level considerations. However, if the bidder feels that it is more appropriate to consider as a stand alone method (i.e. with broader purposes than only lake levels), we are open to this approach as well.</p> <p>b. Our recommendations for hydraulic routing/modelling is likely not applicable to completely ungauged watersheds. The intent is to demonstrate the utility for translating flood flows from a gauged location on a river to an ungauged (or only a short record) location on the same river. Further uses may be suggested by the bidder as well.</p>

**All other terms and conditions of the Bid Solicitation remain the same.**