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	<p>EC Bid Solicitation No./SAP PR No. - N° de la demande de soumissions EC / N° SAP PR 5000075825</p>	<p>Amendment No. - N° de modif. 004</p>
	<p>Date of Bid Solicitation (YYYY-MM-DD) – Date de la demande de soumissions (AAAA-MM-JJ) 2023-10-31</p>	
	<p>Bid Solicitation Closes (YEAR-MM-DD) - La demande de soumissions prend fin (AAAA-MM-JJ) at – à 2:00 P.M. on – le 2023-12-08</p>	<p>Time Zone – Fuseau horaire Eastern Standard Time (EST)</p>
	<p>F.O.B – F.A.B Destination</p>	
	<p>Address Enquiries to - Adresser toutes questions à Carolyne Chénier carolyne.chenier@ec.gc.ca</p>	
	<p>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ) 2024-03-31</p>	
	<p>Destination of Services / Destination des services National Capital Region (NCR)</p>	
<p>Security / Sécurité There is no security requirement associated with this requirement.</p>		

Amendment 003

This amendment 003 is raised to:

- a) Answer question 8;
- b) Modify RM1;

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a) Questions and Answers

Q1: The RFP requires the proponent’s team to have at least one “Project Engineer resource”. Would ECCC please clarify whether a Canadian engineering license (P.Eng., P.L.Eng., etc.) is required for such resource? Or this resource can be a professional that does not hold a Canadian engineering license but has sufficient engineering experiences relevant to the proposed work.

A1: The Project Engineer must meet the academic requirement of having a university degree in engineering. Canadian engineering license (P.Eng.) is not mandatory.

Q2: We understand cooperate reference contracts are required to demonstrate bidder’s experience. For each team member in the proposed project team (Team Lead, Project Engineer, Project Financial Analyst), can individual CVs and references (previous employers and projects) be used in lieu of corporate reference contracts to demonstrate his/her relevant experiences? Or is the requirement that each team member’s experiences must be demonstrated in the corporate reference contracts submitted?

A2: For each team member in the proposed project team (Team Lead, Project Engineer, Project Financial Analyst), individual CVs and references (previous employers and projects) may be used in lieu of corporate reference contracts to demonstrate his/her relevant experiences.

Q3: Would ECCC please confirm the cost analysis will exclude the cost of hydrogen conversion (e.g., ammonia, liquid H₂), transportation (e.g., truck, pipeline), and power generation end-use (e.g., H₂-fired boilers, solid oxide fuel cells) downstream of the hydrogen production plant gate?

A3: The cost analysis will exclude cost of hydrogen conversion (e.g., ammonia, liquid H₂), and transportation (e.g., truck, pipeline) of hydrogen from hydrogen production facility exit gate to the power generation (e.g., H₂-fired boilers, solid oxide fuel cells) facility gate downstream of the hydrogen production plant gate.

Q4: Do you have a budget in mind?

A4: There is no defined budget and no mandatory financial criteria associated with this requirement.

Q5: To support assessing and placing the best possible resources on this project. Is there an alternative criterion that ECCC will consider for the Education Competency criterion that is based on experience and capability - particularly for the “Team Lead” and “Financial Analyst” positions where PhD education is not necessarily as relevant to the position requirements?

A5: The education criteria for each resource have been removed from the Point Rated Criteria

Q6: RM2 requires a proposed project engineer, which implies the costing exercise will need to be at a detailed and specified project level. Can ECCC explain the required or desired costing details for hydrogen production?

- a. Is the expectation a component level analysis?
- b. Are elements of the supply chain for hydrogen production, storage and transport required?

A6: Storage and transportation elements are not required to be considered. Only production element is to be considered.

Q7: If a detailed engineering lens is not required, is a techno-economic analysis sufficient relying on public and pre-existing data available to cost major hydrogen value chain elements, such as electricity source costs, electrolyzer costs, compression costs, storage type and formation cost, cost of CCS technologies, etc?

- a. Major production and handling component costs are typically available for economic analysis purposes. Is an analysis that provides ECCC with a levelized cost per m³ of hydrogen for conceptual technologies deployed in specific provinces sufficient?
- b. In this case, reliance on engineering expertise would not seem required. Can mandatory and rated requirements be adjusted to streamline and broaden the participation of potential proponents?

A7: An analysis that provides ECCC with a levelized cost per m³ of hydrogen for conceptual technologies deployed in specific provinces would generally be sufficient. However, any unique insight brought in by the Project Engineer will add value to the analysis. Thus, it is not necessary to adjust the mandatory and rated requirements.

Q8: The resource mandatory requirements for the project team lead states “The proposed Team Lead (TL)/ Project Manager (PM) must have at least fifteen (15) years of professional experience including in PM role in the last twenty (20) years from the date of bid closing”

However, the maximum points are available for the technical criteria only require 5 years in the area of expertise under RR1.

Is it possible for a proposal to be suitable with a team lead having 5+ years and not the 15 if the experience is more relevant.

A8: Through another amendment minimum experience required for the TL/PM may be reduced

from

“at least fifteen (15) years of professional experience including in PM role in the last twenty (20) years from the date of bid closing”

to

“at least ten (10) years of professional experience including in PM role in the last fifteen (15) years from the date of bid closing”

In view of our expectation that TL/PM would bring in solid techno-economic perspective garnered through years of professional experience, we are not in favor of reducing the experience requirement for TL/PM to only 5+ years. Some exceptional professionals with shorter length of formal professional experience may demonstrate exceptional maturity but that is probably not the rule. Solicited experience requirement is not exclusively hydrogen focused thereby allowing some flexibility.

B) Modify RM1:

Delete

RM1: The proposed Team Lead (TL)/ Project Manager (PM) ~~must have at least fifteen (15) years of professional experience including in PM role in the last twenty (20) years~~ from the date of bid closing, not including education, for work performed that is similar in size and nature to that described in Section 2.0 of the Statement of Work Annex A.

Insert

RM1: The proposed Team Lead (TL)/ Project Manager (PM) **must have at least ten (10) years of professional experience including in PM role in the last fifteen (15) years** from the date of bid closing, not including education, for work performed that is similar in size and nature to that described in Section 2.0 of the Statement of Work Annex A.

