

Request for Proposal

For

Selection Of Technical Service Provider For Feasibility Study On Producing Blue Hydrogen and other downstream products from Gasification of Lignite

RFP No.: iCEM/01/23-24

Answer to Pre- Bid Queries and Corrigendum - 2

International Center of Excellence in Mining

14 February 2024

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Sl. No.	Clause No.	Clause Description	Pre-Bid queries/ Clarification	Draft Response/ Addendum/ Corrigendum if any
1	5.2. Technical Score Criteria, page No. 27	Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and Storage	As the following tender concerns with production of blue hydrogen, we request the authority to kindly remove the condition.	Please refer to Answer to pre-bid queries no. 6 of Corrigendum 1 for the amended clause.
2	-	Query	Since nothing has been mentioned about Indian subsidiaries of foreign firms intending to participate in this bid, we understand that it is given that they can use the technical and financial credentials of their parent company. We request the authority to confirm our understanding please.	The bidders can claim credentials of parent/subsidiary/sister concern firms for meeting the Pre-Qualification criteria and technical criteria as per the answer to pre-bid queries no. 2 of Corrigendum 1.
3	Section 5.1- Pre-Qualification Criteria (Table for PQ Criteria, Point. No. 4)		Bidder request to modify following as below: The bidder's firm shall have consulting experience in minimum 2 coal gasification projects in terms of feasibility or similar in the last 10 years	RFP condition remains unchanged.
4	Section 5.1- Pre-Qualification Criteria (Table for PQ Criteria, Point. No. 5)		Bidder request to consider Hydrogen/Syngas experience as well since study will also include conversion of syngas to hydrogen. Hence, bidder proposes to include these experiences as follow: "The consultant should have an average annual turnover from the hydrogen generation or coal gasification or any syngas generation or carbon capture related projects (study / operations) of not less than INR 10 Crores in last 5 financial years (FY 18-19, FY 19-20, FY20-21, FY 21-22, FY 22-23)"	The turnover criteria has been relaxed as per answer to pre-bid queries no. 1 of Corrigendum 1.
5	Section 5.2- Technical Score Criteria (Sr. No. A1)		Bidder request to modify said clause as follow: Technology related Experience: Number of Pre-feasibility or Feasibility Studies undertaken for carbon capture or syngas production made using	Please refer to answer to pre-bid queries no. 3 of Corrigendum 1.

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			gasification of coal/lignite on the surface including technology options assessment."	
6	Section 5.2- Technical Score Criteria (Sr. No. A2)		Bidder request to consider option for Market Study for any Chemical/Petrochemical Products	RFP condition remains unchanged.
7	Table for "The Qualification and evaluation criteria for proposed Team"		Team Lead Experience: Bidder request to include Hydrogen or Syngas related experience as well. Proposed clause- Minimum of 15 years of total experience in Hydrogen generation or coal gasification or any syngas generation or carbon capture and related projects.	Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. for all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products and uses or carbon capture or natural gas usage related projects.
8	Table for "The Qualification and evaluation criteria for proposed Team"		Senior Team Member: Bidder request to include Hydrogen or Syngas related experience as well. Proposed clause- Minimum of 10 years of total experience in Hydrogen generation or coal gasification or any syngas generation or carbon capture and related projects.	Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. for all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products and uses or carbon capture or natural gas usage related projects.
9	Table for "The Qualification and evaluation criteria for proposed Team"		Team Member: Bidder request to include Hydrogen or Syngas related experience as well. Proposed clause- Minimum of 7 years of total experience in Hydrogen generation or coal gasification or any syngas generation or carbon capture and related projects.	Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. for all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products

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				and uses or carbon capture or natural gas usage related projects.
10	Section-II Scope of Work Part 3 Detailed Feasibility Study		<p>Tender clause: <i>"The service provider shall provide estimation for the preliminary project construction quantities, along with developing the project implementation & packaging philosophy, construction phase infrastructure requirements....."</i></p> <p>Considering very early stage of the project and stringent schedule, bidder proposes to exclude the generation of project construction quantities at this study phase.</p>	Only preliminary estimates are required at this stage. Details can be worked out during feasibility and detailed feasibility stage. Therefore, RFP condition remains unchanged.
11	Section-II Scope of Work Part 3 Detailed Feasibility Study		<p>Tender Clause: <i>"The service provider shall undertake development of financial model including Capital Costs (CAPEX), Operating Costs (OPEX), EBITDA etc. The service provider shall note that the cost estimates shall be AACE Class III estimates to be provided with +30% estimation accuracy....."</i></p> <p>Bidder understands that cost estimates shall be as per AACE Class IV methodology with capex estimation accuracy of +/- 30%. Please confirm our understanding.</p>	AACE Class IV estimates are required.
12	Section-III Instructions to Bidders Clause 2.5 EMD/Bid Security		Bidder request Owner to waive-off EMD requirement for study phase.	The bidder's are exempted for EMD and RFP fee waive off if they have a valid MSME registration as per the below amended RFP clause. Following sub clause in 2.5 (f) stand inserted. "The Bidder having valid MSME registration as

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				on Bid submission date is exempted from submission of Bid Security and Tender Fee."
13	Bid Submission Date		Bidder request to extend the due date for submission till 29th Feb. 2024	RFP condition remains unchanged.
14	Page 26 - Clause 5.1 sl. no. 4 of PQ criteria	The bidder's firm shall have consulting experience in minimum 2 coal gasification projects in terms of feasibility or similar	For the technical scoring criteria on page 27 (A1), experience on gasification of petcoke is accepted along with coal and lignite. We trust that the same would be applicable for this clause as well.	Yes your understanding is correct. The RFP clauses stands amended as below: "The bidder's firm shall have consulting experience in minimum 2 coal gasification /petcoke/ coal/ lignite projects in terms of feasibility or similar."
15	Page 64 - Annexure 6 CV submission format sl. no. 11	Mineral/Mine Sector Experience (Years): _____ (details to be given in point no 13)	We trust that this should be "Gasification and Related Experience (Years): _____ (details to be given in point no 13)	The typo error is rectified with below mentioned amended clause. The RFP clauses stands amended as below: Gasification and Related Experience (Years): _____ (details to be given in point no 13)
16	Query response from GMDC point no. 78 and 79	Agreed. At this stage, general available availability and magnitude of requirement must be commented upon at this stage.	The response seems to contradict with the response given in Sl. No. 71, where it is written that the chosen consultant, as a subject matter expert, has to provide early stage material balance, utility summary, plot requirements, prelim. capex & opex etc. This may kindly be clarified	Early stage preliminary capital and operating costs to be provided based on reference data from other similar studies.
17	Query response from GMDC point no. 93	The Service Provision Fees include the cost of any surveys, sample testing, other lab tests, licensor fees , transport of samples etc and needs to be borne by the Service Provider. Employer shall facilitate	The highlighted part contradicts with the last para on page 8 of the RFP, which says that "consideration needs to be paid to the technology licensors for obtaining such information, particularly for closely held technologies, the	The said clause is amended as below: The Service Provision Fees include the cost of any surveys, sample testing, other lab tests, licensor fees, transport of samples etc and needs to be borne by the Service Provider.

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Sl. No.	Clause No.	Clause Description	Pre-Bid queries/ Clarification	Draft Response/ Addendum/ Corrigendum if any
		collection of samples or provide support for any surveys	same shall be borne by the Employer". This may kindly be clarified	Employer shall facilitate collection of samples or provide support for any surveys.
18	5.0 Bid Evaluation Criteria	To be considered eligible and qualified, each Bidder should meet Eligibility Criteria and obtaining minimum 70 marks in the technical scores specified hereunder will progress to the next stage of Price Bid opening.	To be considered eligible and qualified, each Bidder should meet Eligibility Criteria and obtaining minimum 70 50 marks in the technical scores specified hereunder will progress to the next stage of Price Bid opening. Note: Employer would appreciate that Coal Gasification and Carbon Capture Utilization and Storage are a sunrise sector for which not much project reference is available in the market as most of the projects are in feasibility stage or nascent stage of execution. Accordingly, bidder requests Client to relax the minimum technical qualifying score to 50 marks out of 100. This will encourage active participation of bidders.	RFP condition remains unchanged.
19	5.1: Pre-Qualification Criteria Subpoint:#4	The bidder's firm shall have consulting experience in minimum 2 coal gasification projects in terms of feasibility or similar	The bidder's firm shall have consulting experience in minimum 2 coal/petcoke gasification projects in terms of feasibility or similar	Please refer to Answer to pre-bid query no. 14 of this document.
20	5.1: Pre-Qualification Criteria Subpoint:#5	The consultant should have an average annual turnover from the coal gasification related projects (study / operations) of not less than INR 10 Crores in last 5 financial years (FY 18-19, FY	The consultant should have an average annual turnover from the coal gasification related projects of not less than INR 10 Crores in last 5 financial years (FY 18- 19, FY 19-20, FY20-21, FY 21- 22, FY 22-23).	Please refer to Answer to pre-bid query no. 1 of Corrigendum 1.

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		19-20, FY20-21, FY 21-22, FY 22-23).		
21	5.2:Technical Score Criteria (Sub Clause-A1)	Experience of Bidder - 40 Technology related Experience: Number of Pre-feasibility or Feasibility Studies undertaken for syngas production made using gasification of coal/lignite on the surface including technology options assessment.	Experience of Bidder - 40—25 Technology related Experience: Number of Pre-feasibility or Feasibility Studies undertaken for syngas production made using gasification of coal/lignite/Petcoke on the surface including technology options assessment.	RFP condition remains unchanged.
22	5.2:Technical Score Criteria (Sub Clause-A2)	Market and Commercialization Study related Experience: Number of Studies undertaken that includes at least three out of the four types of—project experiences stated below: <ul style="list-style-type: none"> • Market Assessment for Syngas downstream products and assessing demand •Assessment of commercialization potential for downstream products • Production plan for Syngas • Financial viability of the entire project including gasification, marketisation, and pricing. 15	Market and Commercialization Study related Experience: Number of Studies undertaken that includes at least three out of the four types of—project experiences stated below: Note: Market assessment / commercial potential is carried out by the specialized market survey agencies. In line with the standard industry practice, the market survey agency is directly hired by the Owner and the survey report is made available to the Consultant at the time of award of work. This market assessment report is then utilized by the Consultant for preparation of Techno-Economic Feasibility report. Also, financial viability of the project is typically done by specialized financial agencies and not a part of Techno-Economic Feasibility Study. Accordingly, it is requested to delete the requirement of “Market and Commercialization Study related Experience” from the BEC Scoring criteria.	RFP condition remains unchanged.

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		(3 marks per project , max 5 projects)	15 (3 marks per project , max 5 projects)	
23	5.2:Technical Score Criteria (Sub Clause-A3)	Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and Storage	Number of Pre-feasibility or feasibility studies/engineering studies /projects implemented which involves Carbon Capture Storage / Carbon recovery / Amine recovery	Please refer to answer to pre-bid queries no. 6 of Corrigendum 1.
24	5.2:Technical Score Criteria (Sub Clause-B)	Proposed Project Team -20	Proposed Project Team - 35	RFP condition remains unchanged.
		Team Lead - 8	Team Lead - 12	
		Senior Team Member-5	Senior Team Member-10	
		Team Member-4	Team Member-08	
		Backstopping/support staff-3	Backstopping/support staff-05	
25	5.2:Technical Score Criteria (Sub Clause-C)	Approach and Methodology for Proposed Work : 40	Approach and Methodology for Proposed Work : 40	The said clause is amended as below: Approach and Methodology for Proposed Work : 40 Marks <ul style="list-style-type: none"> • Understanding of Lignite / Coal/ Petcoke Gasification process – 8 marks • Understanding of Syn gas Market including market for its downstream productions such a Methanol, Ammonia and Blue Hydrogen-10 marks • Understanding of Carbon Capture Methods and its Feasibility-7 marks • Work Plan (Deployment of manpower etc.)-5 marks • Proposed Approach and Methodology for iCEM-10 marks
		Understanding of Lignite / Coal Gasification process - 8	Understanding of Lignite / Coal/Petcoke Gasification process - 12	
		Understanding of Syn gas Market including market for its downstream productions such a Methanol, Ammonia and Blue Hydrogen-10	Understanding of Syn gas Market including market for its downstream productions such a Methanol, Ammonia and Blue Hydrogen-10	
		Understanding of Carbon Capture Methods and its Feasibility-5	Understanding of Carbon Capture Methods and its Feasibility-7	
		Work Plan (Deployment of manpower etc.)-7	Work Plan (Deployment of manpower etc.)-6	
		Proposed Approach and Methodology for iCEM-10	Proposed Approach and Methodology for iCEM-15	

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26	5.2:Technical Score Criteria	Bidder must score minimum 70 marks out of total 100 marks in Technical Marking section specified herein above	Bidder must score minimum 70-50 marks out of total 100 marks in Technical Marking section specified herein above. Note: Employer would appreciate that coal gasification and Capture Utilization and Storage are a sunrise sector for which not much project reference is available in the market as most of the projects are in feasibility stage or nascent stage of execution. Accordingly, bidder requests Client to relax the minimum technical qualifying score to 50 marks out of 100. This will encourage active participation of bidders.	RFP condition remains unchanged.
27	Qualification and evaluation criteria for Proposed Team	Position: Team Lead Minimum Qualification: • Graduate Degree in Engineering/ Geology plus Postgraduate Degree in Engineering / Management / Geology or equivalent • Minimum of 15 years of total experience in coal gasification and related projects Marks Criteria for Technical Marking: 1. Relevance of experience: 4 marks o 1 mark per project 2. Length of total experience: 4 marks	Position: Team Lead Minimum Qualification: • Graduate Degree in Engineering/ Geology plus Postgraduate Degree in Engineering / Management / Geology or equivalent • Minimum of 15 years of total experience in Hydrocarbon industry out of which minimum 10 years in Coal/Petcoke gasification and related projects Marks Criteria for Technical Marking: 1. Relevance of experience: 4 marks o 1 mark per project 2. Length of total experience: 4 marks o 7-10 -15-20- years of experience: 2 marks o 10+ 20+ years: 4 marks Total (1+2): 8 Marks	Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. For all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products and uses or carbon capture or natural gas usage related projects. The RFP condition for marking criteria remains unchanged.

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		<p>o 15-20 years of experience: 2 marks o 20+ years: 4 marks Total (1+2): 8 Marks</p>	<p>Note: Considering that the assignment pertains to a sunrise sector for which most of the project references are under early stage of execution. Accordingly, bidder requests Client to consider the bidder's experience in Hydrocarbon sector which is much more complex in nature and accordingly reduce the requirement of experience in Gasification sector.</p>	
28		<p>Position: Senior Team Member Minimum Qualification: • Graduate Degree in Engineering/ Geology plus Postgraduate Degree in Engineering / Management / Geology or equivalent • Minimum of 10 years of total experience in coal gasification and related projects. Marks Criteria for Technical Marking: 1. Relevance of experience: 3 marks o 1 mark per project 2. Length of total experience: 2 marks o 10-15 years of experience: 1 mark o 15+ years of experience: 2 marks Total (1+2): 5 Marks</p>	<p>Position: Senior Team Member Minimum Qualification: • Graduate Degree in Engineering/ Geology plus Postgraduate Degree in Engineering / Management • Minimum of 10 years of total experience in Hydrocarbon industry out of which minimum 7 years in Coal/Petcoke gasification and related projects. Marks Criteria for Technical Marking: 1. Relevance of experience: 3 marks o 1 mark per project 2. Length of total experience: 2 marks o 5-7 10-15 years of experience: 1 mark o 7+ 15+ years of experience: 2 marks Total (1+2): 5 Marks Note: Considering that the assignment pertains to a sunrise sector for which most of the project references are under early stage of execution. Accordingly, bidder requests Client to consider the bidder's experience</p>	<p>Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. For all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products and uses or carbon capture or natural gas usage related projects. The RFP condition for marking criteria remains unchanged.</p>

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			in Hydrocarbon sector which is much rriore' complex in nature' and accordingly reduce the requirement of experience in Gasification sector.	
29		<p>Position: Team Member Minimum Qualification: • Graduate / Postgraduate Degree in Engineering • Minimum of 7 years of total experience in gasification and related projects. Marks Criteria for Technical Marking: 1. Relevance of experience: 2 marks o 1 mark per project 2. Length of experience: 2 marks o 7-10 years of experience: 1 mark o 10+ years of experience: 2 mark Total (2+2): 4 Marks</p>	<p>Position: Team Member Minimum Qualification: • Graduate / Postgraduate Degree in Engineering • Minimum of 5 7 years of total experience in Hydrocarbon industry out of which minimum 3 years in Coal/Petcoke gasification and related projects. Marks Criteria for Technical Marking: 1. Relevance of experience: 2 marks o 1 mark per project 2. Length of experience: 2 marks o 1-3 7-10 years of experience: 1 mark o 3+ 10+ years of experience: 2 mark Total (2+2): 4 Marks</p> <p>Note: Considering that the experience in Gasification sector.</p>	<p>Please refer to answer to pre-bid queries no. 8 of Corrigendum 1. The related projects are defined in same clause and reproduced hereunder for ready reference. For all CVs required for criteria 5.2 B excluding support staff would mean projects related to Syn-gas production or its downstream products and uses or carbon capture or natural gas usage related projects. The RFP condition for marking criteria remains unchanged.</p>

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30				<p>iCEM Bank Account details:</p> <ol style="list-style-type: none"> 1. Name of Account Holder*: International Center of Excellence in Mining Safety & Automation (ICEM) 2. Bank Branch: Ashram Road-Ahmedabad 3. Account No.: 151929609316 4. Account Type (Savings/ Current/ etc.): Savings Account-Indus Large business 5. IFSC Code: INDB0000622
31	Point no. 4 and 5 of the table in clause 1.6 of section 3 of the RFP (to be read with answer to pre bid query no 38 of Corrigendum 1)	<ul style="list-style-type: none"> • Bid submission due date and time for online price bid submission: 16/2/2024 upto 1700 hrs • Bid submission due date and time for physical technical bid submission: 16/2/2024 upto 1800 hrs 		<p>The bidding schedule as per point no 4, 5 and 6 of the table in clause 1.6 of the section 3 of the RFP stands updated as follows;</p> <ul style="list-style-type: none"> • Bid submission due date and time for online price bid submission: 16/2/2024 upto 1800 hrs • Bid submission due date and time for physical technical bid submission: 16/2/2024 upto 1800 hrs. • Date and time for Opening of Technical Bid: 16/2/2024 upto 1830 hrs at the address mentioned in point 5 of the RFP document. • Date and time for Opening of Price Bid: To be intimated to the Eligible and Qualified Bidders.