

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 - 1

International Center of Excellence in Mining

1 February 2024

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| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 1 | Page 26 - Clause 5.1 sl. no. 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 19-20, FY20-21, FY 21-22, FY 22-23). | <p>We request you to make it a general average annual turnover criteria rather than specific to gasification projects, as no consultant is likely to meet this criteria, given the few number of gasification projects and studies in the last 5-6 years.</p> <p>Is it also expected that gasification plant operators will be equipped to take up this feasibility study, since gasification operations are also mentioned here. A gasification project owner/operator or technology supplier may meet this criteria, but in such a case the advise provided to GMDC/ICEM will become specific to one technology and not always an impartial, optimal and merit-based view, based on the requirements of the project</p> | The RFP clause 5.1 si.no 5 of Section 3 stands amended as below. "The consultant should have an average audited annual turnover 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) ." |
| 2 | Page 26 - Clause 5.1 sl. no. 1 | The consultant should be a legal entity registered in India, since last 10 (Ten) years under either Indian Companies Act 1956/2013 or LLP Act 2008. | Due to regulatory, compliance, tax and business reasons, we operate in different geographies through different subsidiaries and affiliates. We trust that the experience of such susbdary companies and affiliates will also be recognized and treated at par, as the same team is involved in the delivery of our projects across the world | <p>The clause 5.5 in section 3 stands inserted as below.</p> <p><i>"Clause 5.5 Credit from Parent / Subsidiary / Sister Concern for meeting the Pre-Qualification and Technical Score criteria</i></p> <p><i>(i) Taking credit from Associate (i.e. subsidiary/parent/sister concern firm) for meeting the Pre – Qualification Criteria and Technical Qualification Criteria is permitted subject to clauses specified hereunder.</i></p> <p><i>(ii) In case a bidder is relying on qualifications of subsidiary/parent/sister concern firm for</i></p> |

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| | | | | <p><i>being considered for determination of compliance/meeting requirement with regards to the Pre- Qualification and Technical Score Criteria, then under such circumstances, the bidder shall clearly indicate, with supporting documentation, the relationship between the bidder and the entity whose qualifications it is seeking to rely upon.</i></p> <p><i>a)The bidder, if a subsidiary of another company, may claim such qualification only if the parent company has a more than 50% shareholding in it.</i></p> <p><i>b) Similarly, a bidder may claim such qualification from its subsidiary only if it has a more than 50% shareholding in the subsidiary.</i></p> <p><i>c) Finally, a bidder may claim credit from a sister concern only if the parent company holds a more than 50% shareholding in both the bidding company and sister concern.</i></p> <p><i>If the firms are not in the nature of companies, then the determination of the relationship would be based on possessing a controlling stake. If bidding firm is a partnership firm, then determination of relationship is based percentage of profit sharing. In such case more than 50% of profit-sharing shall be considered eligible for claiming credit from Parent (Parent firm or common partners holds more than 50% profit sharing in bidding firm) / Subsidiary</i></p> |

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| | | | | <p><i>(Bidding firm or common partners holds more than 50% profit sharing in subsidiary firm) / Sister Concern (Parent firm holds more than 50% profit sharing in both bidding firm and sister concern firm).</i></p> <p><i>(iii)Any claims of credit from Parent/Subsidiary/Sister Concern firm must be accompanied by a certificate by a registered chartered accountant clearly explaining how the Parent/Subsidiary/Sister Concern firm meets the above definition of the Parent/Subsidiary/Sister Concern firm with relation to Bidding Firm."</i></p> |
| 3 | Page 27 - Clause 5.2 sl. no. A1 | 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 | Along with coal and lignite, please also include petcoke as it is also a carbonaceous fossil fuel where similar gasification processes and downstream gas processing and chemical conversion technologies can be applied | <p>Agreed. The Clause 5.2 Sl. No. A1 stands amended as below.</p> <p>"Technology related Experience: Number of Pre-feasibility or Feasibility Studies or Pre-FEED /FEED undertaken for syngas production made using gasification of coal/lignite/ petcoke on the surface including technology options assessment"</p> |
| 4 | Page 27 - Clause 5.2 sl. no. A1, A2 and A3 | Experience of Bidder | Given the similarity of projects for which experience is evaluated in Clause A1, A2 and A3, please confirm that same projects can be repeated across these sub-categories, as long as they meet the required criteria | The bidder can use the same projects as per the required criteria for the sub-categories mentioned in technical criteria 5.2 A1,A2,A3 of Section III provided it meets requirements of respective criteria. |
| 5 | Page 27 - Clause 5.2 sl. no. A1 | Number of Pre-feasibility or Feasibility Studies undertaken for | Along with Pre-feasibility or Feasibility Studies, please also consider Pre-FEED/FEED studies since they are similar studies with more detailed scope | Agreed. Please refer to answer to Pre bid query No 3. |

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| | | Carbon Capture Usage and Storage | but with a different nomenclature as used in other geographies | |
| 6 | Page 27 - Clause 5.2 sl. no. A3 | Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and Storage | Typically the CO2 disposition of carbon capture projects is either towards storage or utilization, but typically never both. Hence we request you to modify this to "Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and/or Storage" | The said RFP clause is amended as below: "Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and/or Storage." |
| 7 | Page 27 - Clause 5.2 sl. no. A3 | Number of Pre-feasibility or Feasibility Studies undertaken for Carbon Capture Usage and Storage | The production of urea does not involve the intentional usage or storage of CO2. Rather a part of the CO2 produced during the steam reforming of NG or naptha is used to meet the process need for converting ammonia to urea and the rest of the CO2 is generally vented to the atmosphere. Hence we request you to confirm whther urea will also be considered for CO2 utilization | Yes, urea can be considered for CO2 utilization but Service Provider needs to provide commercial viability of the same. |
| 8 | Page 28 - table for CVs | The requirement for the key positions mention that the person should have "Minimum of X years of total experience in coal gasification and related projects" | Please clarify on "related projects" - we understand that this includes projects involving natural gas usage - please confirm. | Related projects 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 | Page 29 - table for CVs | Based on comparable evaluation of quality of backstopping and junior support staff proposed | Support Staff - Based on the table provided in Annexure 5, we assume that we should provide the profiles of 3 support staff. Please confirm | The bidder's understanding is correct. |
| 10 | Page 29 - table for CVs | Based on comparable evaluation of quality of backstopping and junior support staff proposed | Please clarify on the word "backstopping" - please confirm that no regular onsite presence of consultant's team members at GMDC/ICEM office is envisaged and that only key presentations and meetings will be held in person and regular discussions/status update meetings will be held over VC | The service provider's team are expected to be based out of Gujarat to undertake meetings, site visits for the required activities as per the scope of work and carry out any approval processes in order to execute the scope of work. The service provider's team may work from their offices for remaining work other |

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| | | | | than meetings, site visit and approval processes for executing the scope of work. The bidder is requested to refer to Clause 4 of Section V page no. 53 for detailed understanding on the deployment of personnels. |
| 11 | Page 7 - last para | Site selection: The Service Provider will need to consider the pit head lignite mine locations in Bhavnagar and in South Gujarat as the potential sites for lignite gasification | Please clarify on the number of mines and sites to be studied in Bhavnagar and in South Gujarat, as option analysis needs to be done for each site. This clarification will help us in quantifying the volume of work and effort | Please refer to Query No. 12 |
| 12 | Page 10 Part 2 - 2nd last para | The service provider shall undertake a site selection study to evaluate the best possible mine head location for the coal gasification project of South Gujarat | <p>Please clarify on the number of mines and sites to be studied in Bhavnagar and in South Gujarat, as option analysis needs to be done for each site. This clarification will help us in quantifying the volume of work and effort.</p> <p>Also please confirm that this will be lignite gasification and not coal gasification, and the site selection will consider both Bhavnagar and South Gujarat.</p> <p>Please also confirm that Part 3: Detailed Feasibility Study shall be undertaken for 1 site/project only, based on the option analysis & selection done in Part 2: Techno-commercial Options Analysis</p> | <p>1. The bidder is expected to undertake the study at two sites, one each at Bhavnagar and South Gujarat.</p> <p>2. It will be lignite gasification, and the site selection will consider both Bhavnagar as well as South Gujarat.</p> <p>3. The Feasibility Study for only one site is to be undertaken by the bidder.</p> |

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| 13 | Page 9 - Part 1 bullet no. 1 | Review and assessment of given lignite mining sites and developing an understanding regarding production, composition of output and other data. | Please provide more clarity on this. We understand that the study will be based on the lignite quality and quantity information provided by GMDC/ICEM and the consultant does not need to assess the lignite geology, mining, production and composition/quality. | While data with regard to mining plan, estimated reserves, current production etc. will be shared by GMDC/ICEM, the service provider shall assess the composition and quantity of lignite at site through lab tests. Also read along with below response. |
| 14 | Page 9 - Part 1 bullet no. 3 | The Service provider may have to undertake some tests if so required with prior approval of the Employer at the Service Providers Cost | <p>We understand the the Feasibility Study will be conducted based on the lignite quality data and information provided by GMDC/ICEM. The envisaged timeline does not have the time to absorb the time required for lignite drilling, collection and testing.</p> <p>Our approach for this feasibility study to determine whether the lignite can be gasified for consistent syngas production of the desired quality would be based on our internal database, analysis and literature review. We do not envisage any testing of lignite with respect to gasification at this stage, since the same is done at FEED stage, once the technology has been selected. Please confirm that this approach is acceptable to GMDC.</p> <p>Also it is not possible to determine what types of tests are needed and so no bidder can build in the cost of the same within their cost estimation.</p> | <p>No drilling is expected from Service Provider. However, the bidder is expected to collect samples from running surface mines and conduct characterization and reactivity tests at a reputed lab of its own choice - one each from both the sites (Bhavnagar and South Gujarat). The bidder also need this data as an input for all their calculations and recommendations at this stage and not at some later stages.</p> <p>Characterization (6 to 7 standard parameters) and reactivity tests (r50 is time taken to convert 50% of the lignite conversion to gas and rmax if the time taken to convert maximum lignite to gas) are well established tests, and do not take too much time or money.</p> |
| 15 | Page 9 to 15 | The scope of work has few instances where the gasification of coal is mentioned | Please confirm that gasification of coal is outside the scope of this study, and the current study is limited to gasification of lignite only. | The current study is only for lignite gasification. |

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| 16 | Page 9 to 15 | The RFP title and scope of work mentions about blue hydrogen, i.e hydrogen production with carbon capture and storage | <p>A feasibility study on carbon capture is a separate study in itself. Also, storage related information, i.e. pore space mapping for UG CO2 storage is not available to undertake such a level of study.</p> <p>As we have done in other gasification studies, our suggestion is that the feasibility study should also include a commentary on the potential for carbon capture, storage and usage, with layout provisions for compression, dehydration and purification of CO2 required to meet the potential downstream uses, and also high level ($\pm 50\%$) estimation of CCUS capex and opex.</p> | <p>The employer here needs to understand the broad cost of the Hydrogen produced - Grey as well as Blue. Therefore, the Service Provider shall need to provide broad capital as well as operational costs of CCUS ($\pm 25\%$) as it is a critical input to iCEM.</p> <p>Based on the reality of GMDC's operational area, a commentary on the potential for carbon capture, storage and usage, with layout provisions for compression, dehydration and purification of CO2 required to meet the potential downstream uses, and also high level ($\pm 25\%$) estimation of CCUS capex and opex will be required.</p> |
| 17 | Page 10 Part 2 | Cost competitiveness of production from lignite/coal gasification, vis-à-vis the conventional natural gas or coal-based production | <p>Please confirm that coal gasification is not part of the study and that we need to assess the competitiveness of lignite gasification only. Also coal-based production means coal gasification and the economics of coal gasification are very much dependent on the quality and price of coal, which differs from region to region in India.</p> <p>Hence we suggest that this clause may be re-written as "Cost competitiveness of production from lignite gasification, vis-à-vis the conventional natural gas production" and exclude coal gasification</p> | <p>Coal Gasification is not part of this study. The RFP scope of work - Part 1, 2 and 3 are related to lignite gasification and Part 4 requires the service provider to comment on underground lignite gasification.</p> |

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| 18 | Page 10 Part 2 | View on commercial scale capacities across the world across various production routes | This will be on secondary research and best effort basis, as most of the gasification projects in the world are in China, where data availability and reliability may be a concern | The bidder's understanding is correct. |
| 19 | Page 11 - Scope of Work (Part 2) | The service provider shall undertake a similar study on Carbon capture, its storage, and its reuse | <p>Please provide more clarity on the expectations from this study. A "similar study" on carbon capture is a separate study in itself. Also storage related information, i.e. pore space mapping for UG CO2 storage is not available to undertake such a level of study.</p> <p>As we have done in other gasification studies, our suggestion is that the feasibility study should also include a commentary on the potential for carbon capture, storage and usage, with layout provisions for compression, dehydration and purification of CO2 required to meet the potential downstream uses, and also high level ($\pm 50\%$) estimation of CCUS capex and opex.</p> | Please refer to query no. 16 |
| 20 | Page 12 - Part 3 2nd bullet | Qualitative SWOT analysis of different technologies and licensors, and selection of the most optimal technologies for the project | This should be limited to gasifier technology only, as the other technology blocks like ammonia, hydrogen PSA, methanol etc. are standardized blocks and very similar across technology suppliers. Also the 2nd sentence of this bullet point, "Suggest suitable gasifier technology based on proposed end products and syngas quality requirements" suggests that the comparison is only needed for the gasification technology | <p>For technology blocks other than gasifier, the bidder is expected to provide the top three technologies and their providers.</p> <p>Further, detailed comparison of different technology options to be restricted to gasification technology only.</p> |
| 21 | Page 12 - part 3 | ...shall list & brief specifications of the major equipment | This is not possible at the feasibility study stage as the technology supplier would not be selected | The bidder is expected to provide the said details from its past experience in the field, and is to be stated as such. |

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| 22 | Page 12 - part 3 | The phasing of the project capacities shall be decided in consultation with the iCEM team. | <p>The phasing should be decided, frozen and agreed to by ICEL during Part 2 itself as it has a significant impact on the detailing and design work done in Part 3, such as sizing of common facilities such as RMHS, utilities etc.</p> <p>Also please confirm that phasing means different phases of the same gasification project at the site selected through Part 2 and not replicating the project at different sites</p> | Phasing means different phases of the same gasification project at the site selected through Part 2, and phasing of project capacities will be frozen in consultation with the iCEM team before start of Phase 3. |
| 23 | Page 12 - part 3 | ...Heat & mass balance, PFDs and detailed list of Technology suppliers | Process Flow Diagrams or PFDs are provided by technology suppliers, as it depends on the specific technology supplier chosen. A consultant can provide the BFD, and hence PFD may be changed to BFD please. Please also note that in the next bullet point of the RFP, BFD is written | PFD may be read as BFD (block flow diagram) |
| 24 | Page 12 - part 3 2nd last line | ... estimates shall be AACE Class III estimates to be provided with +30% estimation accuracy | Please note that +30% accuracy corresponds to AACE Class IV while AACE Class III corresponds to +15% estimation accuracy, which is the outcome of a FEED study based on the technology and configuration chosen through the feasibility study. Hence please make this as "estimates shall be with +30% estimation accuracy" | AACE Class IV estimates are required. |
| 25 | Page 13 - List of Inclusions in Part 3 for this project: | Any study regarding the availability of water, hydrological & bathometric study including clearance from the Government or local authority or identification and assessment of the adequacy of water source. | These should rather be exclusions as these are separate independent studies that are done at the DPR/FEED study level once the project site is selected and the feasibility of the project concept is established. At this point of time, it is not possible to estimate the duration and effort level required for undertaking these studies about the site external infrastructure, when we do not know | Agreed. At this stage, general available availability and magnitude of requirement must be commented upon at this stage. |

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| | | <p>Identification of power sources for the project or carrying out any kind of electrical network modelling and simulation for power system analysis.</p> <p>Township plan</p> | <p>what site are we going to consider/finalize.</p> <p>As part of the feasibility study, we will identify the source of power and water, but undertaking hydrological & bathometric study, clearance from the Government or local authority, carrying out any kind of electrical network modelling and simulation for power system analysis, township planning is not envisaged or possible within the scope and timeline of 5-6 months of a feasibility study</p> | |
| 26 | Page 13 - List of Inclusions in Part 3 for this project: | Identification of laying of gas pipelines feasibility from source to destination | The context of this is not clear, as we do not envisage any gas requirement for the project. | The said clause stands deleted. |
| 27 | Page 13 - List of Inclusions in Part 3 for this project: | Undertake study for Carbon capture (apart from the AGR unit) or CO2 utilization to chemicals or other products | <p>Syngas produced through lignite gasification has to be passed through an Acid Gas Removal (AGR) unit to remove acid gases such as CO2, SOx and make the syngas clean and suitable for conversion to hydrogen and other downstream chemicals. Hence carbon capture is an integral part of the gasification project.</p> <p>The utilization of CO2 to chemicals is a vast area in itself as, unlike carbon capture technologies, CO2 utilization technologies are not commercially proven. Hence the CO2 utilization should be limited to CO2 to methanol as CO2 to methanol is the only CO2 utilization technology which is proven at the commercial scale. Also the level of study/analysis should be as mentioned in our query no. 15 above</p> | Please refer to query 16. Further, expert comments on the cost / benefit and technology options of 'U' in CCUS is needed. |

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| 28 | Page 14 - List of Inclusions in Part 3 for this project: | Preparation of more than one conceptual layout for the envisaged project | There should be a limit on the number of alternate layouts to be prepared for the study/project. We propose that this be limited to 3 layouts please | Agreed. |
| 29 | Page 8 - Technology licensor information | These choices will be based on geological data that the Employer will provide. For this study, serious geological investigations are not expected from the Service Provider. | Any geological investigations, soil survey or investigation, geo-technical investigation, bathometric studies, hydrological or hydro geological studies should be in the scope of GMDC/ICEM as it is not possible to assess the scope/extent/budget for the same at this point of time | Please refer to Query No. 14 response |
| 30 | Page 14 - Deliverable Timelines | Deliverables and Milestone | The timeline of 20 weeks (4.5 months) to submit the Draft Report is inadequate as the scope involves a techno-economic feasibility study of gasification and market potential for different sites and lignite qualities. The timeline should be at least 6 months to submit the Draft Report, as suggested below: | The timeline remains 4.5 months, but an extension of 4 weeks can be made, provided sufficient justification is visible well in advance. There shall be no last-minute requests from the bidders for extension of the respective milestone. |
| 31 | | Presentation and report on Part 2 - A + 12 weeks | Presentation and report on Part 2 - A + 16 weeks | RFP condition prevails. Further, please refer to Query no. 30 response. |
| 32 | | Presentation and report on Part 3 and 4 - A + 20 weeks | Presentation and report on Part 3 and 4 - A + 26 weeks | RFP condition prevails. Further, please refer to Query no. 30 response. |
| 33 | | Comments and review of Draft Concept Development and Options Analysis report by iCEM - A + 22 weeks | Comments and review of Draft Concept Development and Options Analysis report by iCEM - A + 28 weeks | RFP condition prevails. Further, please refer to Query no. 30 response. |
| 34 | | Final Concept Development and Options Analysis report - A + 24 weeks | Final Concept Development and Options Analysis report - A + 30 weeks | RFP condition prevails. Further, please refer to Query no. 30 response. |

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| 35 | Page 40 - table for payment terms | Part 1 - 20% Part 2- 20% Part 3 - 40% Part 4- 10% Submission and acceptance of all Final Reports after incorporation of any suggestions - 10% | Please consider 25% as mobilization fees after site visit since Part 1(which also includes site visit) has to be delivered for a period of 8 weeks which is about 1/3rd of overall project timeline. The payment terms should be consistent with the effort to be expended at each stage of the project, so that we dont have to build in additional costs for cash lock-up. Thus we propose the following milestones for consideration by GMDC/ICEM: Mobilization fees payable after site visit - 25% Part 1 - 15% Part 2- 15% Part 3 - 35% Part 4- 5% Submission and acceptance of all Final Reports after incorporation of any suggestions - 5% | GMDC as a policy does not give mobilization advance. Also we think the proportion of overall payments linked to each milestone reflect that Part's effort adequately. However in consideration of your view, payment milestones stand revised as follows: Part 1 - 35% Part 2- 15% Part 3 - 35% Part 4- 5% Submission and acceptance of all Final Reports after incorporation of any suggestions - 10% |
| 36 | Page 16 - Clause 1.1 e | The bidders are required to quote Services Fees for all parts of the TOR separately as per Price Bid Format provided in Annexure 11 of this RFP | This clause mentions that the fee should be quoted separately for each part - however, the Annexure 11 format asks for one lumpsum fee. Also is there a need to separately quote the part-wise fees, payment terms for each Part are already mentioned in the RFP on page 40 | The said RFP clause is amended as: "The bidders are required to quote Services Fees of the TOR as per Price Bid Format provided in Annexure 11 of this RFP." |
| 37 | Page 18 - Clause 1.6 - sl. no. 4 - 2nd para | A copy of instruments or information pertaining to it may be required to be submitted online at the time of submission of Price bid. | The meaning is not clear - same may be kindly be clarified | At the time of submission of the price bid on the online portal, the bidder may be asked to submit additional information pertaining to this bid such as DD Number, copy of DD or BG as the case may be etc., which it may submit online at the time of submission of bid. |

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| 38 | Page 18 - Clause 1.6 - sl. no. 4 - 3rd para | Technical Bid is not to be submitted online, but should be submitted in physical offline mode after the submission of the Price Bid at the designated address by the deadline mentioned. | This seems inconsistent with the due date of the Price Bid (1800 hrs on 16 Feb), which is after Technical Bid due date (1700 hrs on 16 Feb). Please clarify. | The Technical Bid submission due date shall be at 16/02/2024 upto 1800 hrs in offline mode mandatorily. The Price Bid submission due date shall be 16/02/2024 upto 1700 hrs in online mode mandatorily. |
| 39 | Page 27 - Clause 5.2 C | Bid to be accompanied by brief A&M in PPT/word format. This to be followed up with presentation to leading to final evaluation based on the following criteria | Please confirm that bidders need to give a presentation to GMDC/ICEM after the due date of the proposal submission and the date will be informed to the bidders. | As per the RFP Clause 5.2 Section III, the bidder is expected to submit only a basic A&M document in word/PPT format as per the required heads of the said criteria. This shall be followed by a detailed presentation's by Bidders on leading to final evaluation of the A&M criteria 5.2 C. The evaluation of this section will be made post the presentation. |
| 40 | Page 23 - Clause 4.4 | Submission Format & Sealing and Marking of Proposals | Please clarify that technical bid has to be submitted only in physical hard copy and a pen drive inside the hard copy envelope, and not online on the procurement portal | The bidder's understanding is correct. |
| 41 | Page 39 - Clause 2.1 b | In case of gaps in giving the go ahead for the next part, the Service Provider may provide the services for a maximum period of one year. Beyond one year, the time may be extended based on mutual consent. Fees for any extended time shall be escalated at 5% pa | Please mention maximum cumulative period of 1 year. We request the clause to be reworded as below: In case of gaps in giving the go ahead for the next part, the Service Provider may provide the services for a maximum cumulative period of one year. Beyond one year, the time may be extended based on mutual consent. Fees for any extended time shall be escalated at 5% pa | Agreed. |
| 42 | Page 34 - Clause 7.3 | Performance Security of 10% | We request to please make it 5% as this is a significant cost for any bidder to keep funds blocked and finally reflects in the quoted price | RFP condition remains unchanged. |

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| 43 | Page 40 - Clause 2.1 h | If the report submitted by the service provider is not acceptable to the iCEM for either package module, reasons for such non-acceptance should be recorded in writing; the iCEM shall not release the payment due to the service provider in such as case. The payment will be released to the service provider only after it addresses/ re-submits the report and which is accepted by the iCEM | Please also specify the time limit for GMDC/iCEM to accept the reports, since it is related with consultant's payments | iCEM will communicate its queries within 2 weeks of receipt of the report, and if those queries are addressed, acceptance will be made within one week. |
| 44 | Page 45 - Clause 2.3 | If the Service Provider does not commence the Services within the period specified in Clause 1.2.2 above, iCEM may, by not less than 1 (one) weeks' notice to the Service Provider, declare this Agreement to be null and void, and in the event of such a declaration, this Agreement shall stand terminated and the Service Provider shall be deemed to have accepted such termination | Please add "due to the reasons solely attributable to the Service Provider" | The RFP Clause is amended as: If the Service Provider does not commence the Services within the period specified in Clause 2.2 above due to the reasons solely attributable to the Service Provider , iCEM may, by not less than 1 (one) weeks' notice to the Service Provider, declare this Agreement to be null and void, and in the event of such a declaration, this Agreement shall stand terminated and the Service Provider shall be deemed to have accepted such termination. |
| 45 | Page 55 - Clause 7.2.1 | Liquidated Damages for error/variation | It is proposed that Lequidated Damages for delay shall be 0.5% of the total contract price per week of delay or part thereof subject to the 5% of the total contract price, provided the reasons for delay are solely attributable to the Service provider. | RFP condition remains unchanged. |

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| 46 | Page 55 - Clause 7.2.2 | Liquidated Damages for delay | Liquidated Damages for error/variation may kindly be deleted as there is a provision of submission of PBG in the contract, which, in our opinion, is sufficient in case of any non-performance related issues due to the reasons solely attributable to the Service Provider | RFP condition remains unchanged. |
| 47 | Page 56 - Clause 7.3 | Penalty for Deficiency in Services | We request you to please deleted this as there is already a provision of submission of PBG in the contract. | RFP condition remains unchanged. |
| 48 | Page 9 Part 1 - bullet no. 3 | Assessment of potential for syngas production from surface lignite. The Service provider may have to undertake some tests if so required with prior approval of the Employer at the Service Providers Cost | <p>Our clarification request is based on this clause, and the discussion during the pre-bid meeting, where GMDC mentioned that chosen consultant is required to undertake lignite testing at 3 mines.</p> <p>Herein, we would request GMDC to please specify the type of testing required to be undertaken. We believe that at this feasibility study stage, the proximate analysis, ultimate analysis, and ash mineralogy testing of the lignite are sufficient. Further studies, i.e. gasification test work involves significant time & cost and is generally done only at DPR/FEED stage for this shortlisted site/mine, once the feasibility of the project concept is established. We request GMDC to confirm that this testing (i.e. proximate analysis, ultimate analysis, and ash mineralogy testing) would be sufficient so that different bidders can build in the cost appropriately, as the testing is likely to be a significant outsourcing cost for most, if not all bidders.</p> | Please refer to Query no. 14 response. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 49 | Page 9 Part 1 - bullet no. 3 | Assessment of potential for syngas production from surface lignite. The Service provider may have to undertake some tests if so required with prior approval of the Employer at the Service Providers Cost | <p>Completing Part 1, inclusive of sampling & testing of lignite for 3 mines will take a longer timeline than the 8 weeks envisaged in the RFP.</p> <p>The consultant would first have to prepare the sampling methodology/approach so that a representative sample is taken from each mine for the lignite test work. Then GMDC's views and concurrence would need to be taken on the sampling methodology, post which the consultant will prepare the sampling specifications for sampling work to be done by a sampling agency. The collected samples then need to be sent to a laboratory for testing and then based on the test results, the analysis can be started on the technical feasibility of gasification. The testing and sampling will take about 4 weeks and hence the time required for the entire Part 1 would be 12-14 weeks. Hence we request GMDC to increase the timeline for Part 1.</p> | <p>iCEM will provide local support as mentioned in the response to Query no. 14, so sample collection actually takes one day per site. With transportation and analysis, the total time taken should not be more than two weeks.</p> <p>Therefore the timeline remains unchanged.</p> |
| 50 | Page 26 - Clause 5.1 sl. no. 1 in the table | The consultant should be a legal entity registered in India, since last 10 (Ten) years under either Indian Companies Act 1956/2013 or LLP Act 2008. | This question is in continuation to our earlier question (sent before the pre-bid meeting) on a bidder being allowed to use the experience of its subsidiaries and associates. In this context, please note that the conflict of interest provisions (para 1 on page 37 of the RFP) mention that two bidders shall be deemed to have a relationship if they have more than 26% common holding. Using the same definition, we request you to please allow us to use the experience of our subsidiaries and associate companies as follows: | The Bidder can claim credit from the its Parent/ Subsidiary / Sister concern firms as per the answer to pre bid query no 2. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | <ol style="list-style-type: none"> 1. Foreign subsidiaries where our company has more than 26% shareholding 2. Associate companies with more than 26% common shareholding as our company. | |
| 51 | Section I: Background Page 7/79 | This RFP invites proposal from prospective service providers/consultants for primarily the techno-commercial viability of surface lignite gasification and its downstream products, but detailed comments are expected on potential for underground gasification of lignite, and inputs from this study will form a backdrop for the next coal gasification study/project. | Bidder understands that surface lignite gasification is normal coal gasification only. Further, bidder requests employer to inform the names of technology suppliers for underground lignite gasification, as available with the Employer. | The said details will be shared with the selected bidder post award of the contract. |
| 52 | Section I: Background Page 8/79 | Market Study | <ol style="list-style-type: none"> 1. Bidder requests Employer to kindly provide the list of syn gas downstream products for which market study is to be performed by the Service Provider. 2. Further bidder requests Employer to inform names of agencies to be considered for performing market study for syn gas downstream products. | <ol style="list-style-type: none"> 1. Through this RFP, the bidder is expected to undertake the market study for the Blue Hydrogen (with CCUS – carbon capture use and storage), Ammonia and downstream, Methanol and downstream, other feasible products. 2. The bidder is expected to possess capacity and experience to undertake market study by itself |
| 53 | Section I: Background Page 8/79 | Technology Licensor Information | Bidder would like to bring to Employer's kind consideration that certain information required for completion of the scope of this study will have to be arranged from Licensors. For obtaining the above information, quotation from licensors will | RFP condition remain unchanged. Further, this is a pre-feasibility-leading-to-feasibility stage tender. The intent to seek out consultants with experience in the field - this |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | <p>have to be obtained. Bidder would provide to the Employer, complete list of information required from respective Licensors for performing this study. Employer shall obtain such information from licensors for inclusion in the Feasibility report.</p> <p>Considering Ammonia or Methanol as potential products, information from following Licensors could be required for performing the study:</p> <ul style="list-style-type: none"> (i) Gasification Technology Licensor (ii) Acid Gas removal technology Licensor (iii) Sour shift technology licensor (iv) Methanol technology licensor (v) Ammonia technology Licensor (vi) CCUS technology licensor <p>Kindly confirm the above understanding.</p> | <p>level of information is expected to be in the capability area of the bidder.</p> |
| 54 | Section I: Background Page 9/79 | Therefore, the scope of this study in the truest sense is techno-commercial – a business justification is sought to be established for investing in the technology of gasification – surface and / or underground. | With reference to Underground Coal Gasification (UCG), bidder will include the information facilitated by the Employer from the UCG licensor. Kindly confirm. | Please refer to Query No. 53 response. |
| 55 | Section I: Background Page 9/79 | As an example, SynGas conversion to methanol of ammonia at the pit head to be examined | Bidder understands that coal gasification facilities followed by downstream product facilities would constitute a major complex and consequently, it cannot be installed at pit head. Kindly confirm. | We agree that it is a major complex. We also understand its not feasible to transport Syn-gas over long distances. Therefore the service provider/ bidder is expected to recommend the site and complex location that fits the requirements. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 56 | Section I: Background Page 9/79 | Part-1, General Comment | Bidder requests Employer to kindly inform the capacity of Gasifier to be installed for performing the feasibility study. | The broad capacity expected to be 1-2 million tons of lignite per annum. However, exact capacity is to be suggested by the Service Provider/ bidder basis their analysis. |
| 57 | Section I: Background Page 9/79 | Part-1, General Comment | Bidder requests Employer to kindly inform the maximum capital investment envisaged for the project. This will help fix the capacities of various units of the complex. | The objective of this study is to discover optimal capex for the project. This is what the service provider needs to deliver. |
| 58 | Section I: Background Page 9/79 | Part-1&2, General Comment | Bidder understands that accuracy of Capex envisaged for Part 1 & Part 2 Study is +/-30%. Kindly confirm. | Please refer to Query No. 16 response. |
| 59 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Review and assessment of given lignite mining sites and developing an understanding regarding production, composition of output and other data | Bidder requests Employer to kindly provide the names of agencies for performing this activity. | The said clause stands removed from the Scope of work of this project. |
| 60 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Assessment of potential for syngas production from surface lignite. The Service provider may have to undertake some tests if so required with prior approval of the Employer at the Service Providers Cost. | Bidder would like to highlight that assessment of potential for syn gas production based on lignite quality would be performed by Gasification Licensor and the same shall be included by bidder in Request for Information to be issued to the licensors by Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Please refer to Query no. 15 response. Further, the Service Provider need this analysis in order to determine the appropriate gasifier technology. |
| 61 | Section II: Terms of Reference/ Scope of Work Page 9/79 | -----optimal project configurations | Bidder would like to highlight that Optimal project configurations (CAPEX & OPEX) can be finalised only after finalisation of product slate after the market study. Accordingly this would not be conducted in Part 1 of the Study. Kindly confirm. | Agreed. The said work is to be undertaken by the bidder in the Part 2 of the scope of work along with the market study. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 62 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Specific, range of numbers to be provided for estimated conversion of lignite to SynGas, including its calorific value and other mixed gasses in it | Bidder would like to highlight that this activity would be performed by Gasification Licensor and the same shall be included by bidder in Request for Information to be issued to the licensors by Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Please refer to Query No. 14 and 53 response. |
| 63 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Specific numbers to be provided for the conversion of this SynGas into its downstream products including, but not limited to the following downstream products of SynGas – Blue Hydrogen (with CCUS – carbon capture use and storage), Ammonia and downstream, Methanol and downstream, other feasible products | Bidder requests Employer to clarify the specific scheme envisaged by it for Utilization (U) & Storage (S) of the Captured Carbon dioxide (CC). | The overall understanding of the project is mentioned in the RFP document. However, any more information or clarity required for the same shall be sought by the successful bidder after the award of the contract. RFP condition prevails. |
| 64 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Estimates of the capital as well as operational costs of the chosen technology options to be provided. | Bidder would like to highlight that CAPEX and OPEX of the chosen technology option are not feasible before market study preparation. Accordingly, bidder requests Employer to remove the same from Part 1 Scope. Kindly confirm. | RFP condition remains unchanged. |
| 65 | Section II: Terms of Reference/ Scope of Work Page 9/79 | Establishing the Technical feasibility of production of Syn gas from gasification of lignite for GMDC | Bidder understands that no review/ assessment of environmental aspects are to be considered for Part-I of the scope. Kindly confirm. | The bidder shall consider the assessment of environmental aspects in the Part 3 of the scope of work. |
| 66 | Section II: Terms of Reference/ Scope of | Techno-commercial Options Analysis | Bidder understands that comparison of environment aspects for the proposed technologies are not to be considered for Part-II | The bidder's understanding is correct. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | Work Page 9/79 | | of the scope. Only a list of approvals required from respective authorities for the final approved option shall be provided in the Part-III of the scope. Kindly confirm. | |
| 67 | Section II: Terms of Reference/ Scope of Work Page 10/79 | Part-2 Market Study | Typically, Employer hires an agency for carrying out Market analysis for demand-supply outlook, key customer identification, import/export trends etc. Accordingly, bidder requests Employer to get the required data from the Market survey agency and share the data so obtained, with bidder for its inclusion in report. Kindly confirm. | RFP condition remains unchanged. |
| 68 | Section II: Terms of Reference/ Scope of Work Page 10/79 | The service provider shall analyze the lignite and coal quality to be considered based on the data and information provided by iCEM/GMDC and shall undertake analysis of the impact on gasification design, operations, and economics. | Bidder would like to highlight that this activity would be performed by Gasification Licensor and the same shall be included by bidder in Request for Information to be issued to the licensors by Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Please refer to Query no. 14 and 53 response. |
| 69 | Section II: Terms of Reference/ Scope of Work Page 10/79 | The service provider shall also provide a brief description and detailed comparison of the proposed technologies, including relevant reference projects | Bidder would like to highlight that this activity would be performed by Gasification Licensor and the same shall be included by bidder in Request for Information to be issued to the licensors by Employer, as mentioned in Bidder's Query No 5. Kindly confirm. | RFP condition remains unchanged. |
| 70 | Section II: Terms of Reference/ Scope of Work Page 10/79 | The service provider shall undertake a site selection study to evaluate the best possible mine head location for the coal gasification project of South Gujarat. | Bidder requests Employer to provide the names of agencies to be considered for performing this activity. | The bidder is expected to undertake the said activity. Further if any details are required w.r.t. operational aspects or specific details of respective mine, Employer will be providing the same to the successful bidder after the award of the contract. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 71 | Section II: Terms of Reference/ Scope of Work Page 11 /79 | The service provider shall also develop preliminary material balance, utility summary and plot requirement for the different options, along with the preliminary capital and operating cost estimates. These shall be based on reference data of similar projects and studies undertaken as part of the market research. | Bidder would like to highlight that this activity would be performed by the respective Licensors and the same shall be included by bidder in Request for Information to be issued to the licensors by Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | These are early stage estimates that the Service Provider as a subject matter expert in the field is expected to provide. RFP condition remain unchanged. |
| 72 | Section II: Terms of Reference/ Scope of Work Page 11 /79 | <ul style="list-style-type: none"> • The service provider shall undertake assessment of the total capital cost and funds required for the project, and identify potential sources of low-cost climate change funding and financing of the project. This shall be aligned with the business model, encompassing both debt and equity sources. This shall also include equity participation from potential off takers of technology providers, as well as debt financing from project finance loans, development finance loans, as well as international climate focused and thematic funds. • The service provider shall assist iCEM to choose one project configuration option upon undertaking the comparison of | Bidder would like to highlight that these points are related to financing of the project which is typically done be financial agencies and and not a part of Techno-Economic Feasibility Study. Accordingly, bidder would request the engage a financial agency for the same. Kindly confirm. | RFP condition remains unchanged. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | different options, based on capital & operating costs, EBITDA & return on investment, technical & market risks, cash flow certainty, potential for offtake. | | |
| 73 | Section II: Terms of Reference/ Scope of Work Page 11 /79 | The service provider shall undertake a similar study on Carbon capture, its storage, and its reuse. The service provider shall also provide suggestions/recommendation on the possibility of carbon credits / other revenue generation opportunity from this source to iCEM. | Bidder would like to highlight that the information required for performing this study will have to be arranged from CCUS Licensors. Accordingly, Bidder will provide the employer the list of information required from the Technology licensors. Employer to facilitate the same, as mentioned in Bidder's Query No 3. Kindly confirm. | Please refer to Query no. 16 response. |
| 74 | Section II: Terms of Reference/ Scope of Work Page 11 /79 | Part-3 - Risk Analysis | Bidder would like to bring to your kind consideration that Risk analysis is typically not applicable at this stage of feasibility stage. Accordingly bidder understands that the same is excluded from Bidder's scope. Kindly confirm. | RFP condition remains unchanged. |
| 75 | Section II: Terms of Reference/ Scope of Work Page 12 /79 | Qualitative SWOT analysis of different technologies and licensors, and selection of the most optimal technologies for the project. Suggest suitable gasifier technology based on proposed end products and syngas quality requirements | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The information to be sought shall be included in by bidder Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | This is a key requirement of this study. The RFP condition remain unchanged. |
| 76 | Section II: Terms of Reference/ Scope of | Required facilities for gas conditioning and treatment, acid gas removal and treatment based | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The | Read in addition to query no. 16 response. Syngas produced through lignite gasification |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | Work Page 12 /79 | on the requirement of downstream facilities. | information to be sought shall be included in by bidder Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | has to be passed through an Acid Gas Removal (AGR) unit to remove acid gases such as CO ₂ , SO _x and make the syngas clean and suitable for conversion to hydrogen and other downstream chemicals. Hence carbon capture is an integral part of the gasification project. |
| 77 | Section II: Terms of Reference/ Scope of Work Page 12 /79 | The service provider shall develop integrated project architecture across the gasification, gas conditioning, chemical and BoP units, including capacity sizing of different units and shall list & brief specifications of the major equipment. The phasing of the project capacities shall be decided in consultation with the iCEM team. | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The information to be sought shall be included in by bidder Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | RFP condition remains unchanged. |
| 78 | Section II: Terms of Reference/ Scope of Work Page 12 /79 | The service provider shall also develop heat and mass balance of different units, along with power, water and utility balance, project infrastructure and plot plan requirements and development of the overall plant layout. | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The information to be sought shall be included by bidder in Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Agreed. At this stage, general available availability and magnitude of requirement must be commented upon at this stage. |
| 79 | Section II: Terms of Reference/ Scope of Work Page 12 /79 | The service provider shall provide brief description of each selected process and facilities proposed under each process unit. Also, determination at the unit-wise level shall include: material balance, water balance, covering | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The information to be sought shall be included by bidder in Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Agreed. At this stage, general available availability and magnitude of requirement must be commented upon at this stage. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | inputs and outputs, utility requirements (power, water, catalyst, chemicals), unit-wise effluents & their treatment/disposition, off-specification product streams, waste stream handling, unit-wise plant design basis, unit-wise & overall block flow diagram (BFD), unit-wise & overall utility requirements, preliminary plot plan and site description, overall in-plant electrical single line diagram, construction power requirements | | |
| 80 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | The service provider shall provide estimation of the total funding requirements, optimal capital structure and examine the various funding options for meeting the investment requirements. | Bidder would like to highlight that these points are related to financing of the project which is typically done be financial agencies and and not a part of Techno-Economic Feasibility Study. Accordingly, bidder would request the engage a financial agency for the same. Kindly confirm. | RFP condition remains unchanged. |
| 81 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | The service provider shall provide options for different sources for low-cost climate funding and financing the project and corresponding capital structures. | Bidder would like to highlight that these points are related to financing of the project which is typically done be financial agencies and and not a part of Techno-Economic Feasibility Study. Accordingly, bidder would request the engage a financial agency for the same. Kindly confirm. | RFP condition remains unchanged. |
| 82 | Section II: Terms of Reference/ Scope of | The service provider shall undertake preparation of SWOT and risk analysis of the project, | Bidder would like to highlight that this SWOT analysis content is typically not a part of the techno-economic feasibility study. Accordingly, | RFP condition remains unchanged. |

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| | Work Page 13 /79 | along with the preliminary identification of the risk mitigation measures. | bidder understands that this shall not be included in bidder's scope. Kindly confirm. | |
| 83 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | The service provider shall provide a business & contracting model for the project, with roles and responsibilities of the technology supplier, engineering partner and construction partner. | Bidder would like to highlight that these points are related to financing of the project which is typically done be financial agencies and and not a part of Techno-Economic Feasibility Study. Accordingly, bidder would request the engage a financial agency for the same. Kindly confirm. | RFP condition remains unchanged. |
| 84 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | The service provider shall also identify opportunities for the Employer to get equity participation from potential off - takers. | Bidder would like to highlight that these points are related to financing of the project which is typically done be financial agencies and and not a part of Techno-Economic Feasibility Study. Accordingly, bidder would request the engage a financial agency for the same. Kindly confirm. | RFP condition remains unchanged. |
| 85 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | Undertake study for Carbon capture (apart from the AGR unit) or CO2 utilization to chemicals or other products | Bidder would like to highlight that information required for conducting this activity would be obtained from the respective Licensor. The information to be sought shall be included by bidder in Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | Please refer to Query no. 16 response - expert comments on the cost / benefit and technology options of 'U' in CCUS is needed from the bidder. |
| 86 | Section II: Terms of Reference/ Scope of Work Page 13 /79 | Identification of laying of gas pipelines feasibility from source to destination | Bidder will identify pipeline requirement based on finalised product slate. Feasibility of pipeline would be done by Employer. Kindly confirm. | Please refer to Query no. 26 response. |
| 87 | Section II: Terms of Reference/ Scope of Work Page 14 /79 | Preparation of more than one conceptual layout for the envisaged project. | Bidder understands that maximum 3 plot plans based on finalised product slate would be provided in the study. Kindly confirm. | Agreed. |

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| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 88 | Section II: Terms of Reference/ Scope of Work Page 14 /79 | Sharing detailed financial models or calculations with the Employer | Bidder would like to highlight that Financial package native files, being proprietary in nature, shall not be shared with the Employer. However temporary access of a web based Financial Package shall be provided to Employer wherein Employer can access and edit the input parameters and generate outputs accordingly. Kindly confirm. | RFP condition remains unchanged. |
| 89 | Section II: Terms of Reference/ Scope of Work Page 14 /79 | Part-4 Underground Coal Gasification | Bidder would like to highlight that information required for conducting this part would be obtained from the CCUS Licensor. The information to be sought shall be included by bidder in Request for Information which shall be issued to the licensors by the Employer, as mentioned in Bidder's Query No 3. Kindly confirm. | RFP condition remains unchanged. |
| 90 | Section III: Instructions to Bidders Page number 17/79 | 1.5. RFP Fee | Bidder being a CPSE organization, bidder requests Employer to kindly waive off the applicability of Tender Fee for bidder for the subject services. | RFP condition remains unchanged. |
| 91 | Section III: Instructions to Bidders Page number 20/79 | 2.5. Earnest Money Deposit (EMD)/Bid Security | Bidder being a CPSE organization, bidder requests Employer to kindly waive off the applicability of Earnest Money Deposit/Bid Security for bidder for the subject services. | RFP condition remains unchanged. |
| 92 | Section III: Instructions to Bidders Page number 34/79 | Clause 7.3: Performance Security | Bidder being a CPSE organization and further considering that the present assignment pertains to Feasibility study, bidder requests Owner to waive off the applicability of Performance security for the subject services. In line with same, bidder requests to Delete Clause 7.1 and 7.2.3 of the Draft Contract also. | RFP condition remains unchanged. |

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| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 93 | Section IV: Service Fees and Payment Terms Page number 39/79 | Clause 1: Service provision Fees Sub Clause (d) | " The Service Provision Fees specified in subclause a) hereinabove includes remuneration of service provider's staff, Travel expense, expense towards dine, hotel stay, office rents, conveyance, stationary and any other expense to be incurred for executing Terms of Reference." Bidder understands that the Service provision Fee shall be exclusive of Third party charges like Licensor fees, Survey charges, Coal sample testing etc. The same shall be borne by the Employer directly at no cost to Service Provider. Kindly confirm. | The Service Provision Fees <i>include</i> 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 collection of samples or provide support for any surveys. |
| 94 | Section IV: Service Fees and Payment Terms Page number 40/79 | Clause 2: Payment Terms Sub Clause (c) | Bidder would like to bring to your kind consideration that considerable efforts shall be expended by bidder for the first 3 parts of the scope. Accordingly, bidder would like to propose proportionate payment terms as follows - Part 1 – Submission and acceptance of Report and Presentation on Establishing the Technical Feasibility of production of Syn gas from gasification of lignite for GMDC : 25% of service Fee Part 2 – Submission and acceptance of Report and Presentation on Techno-commercial Options Analysis: 25% of service Fee Part 3 - Submission and acceptance of Report and Presentation on Detailed Feasibility Study and Comments on | Please refer to Query No. 35 response. |

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| | | | <p>Underground lignite coal gasification : 40% of service Fee</p> <p>Part 4 - Submission and acceptance of Comments on Underground lignite coal gasification : 5% of service Fee</p> <p>Submission and acceptance of all Final Reports after incorporation of any suggestions : 5% of service Fee</p> | |
| 95 | Section IV: Service Fees and Payment Terms Page number 40/79 | Clause 2:Payment Terms Sub Clause (g) | Bidder requests Employer to kindly modify the Clause as follows - "The payment % as defined above for all parts shall be released to the consultant on submission and acceptance of the complete report as per the defined deliverables." | RFP condition remains unchanged. |
| 96 | Section V : Draft Contract Page 42-43/79 | Clause 1: General Sub Clauses (h), (i), (j), (k), (n), (o) | <p>Bidder requests Employer to kindly modify the Clause as follows -</p> <p>h. "Dispute" shall have a meaning specified in clause 1.9.1 9.1</p> <p>i. "Effective Date" shall have meaning specified in clause 1.2.4 2.1</p> <p>j. "Force Majeure" shall have a meaning specified in clause 1.2.5 2.7.1.</p> <p>k. "Insurance" shall have a meaning specified in clause 1.3.1.4 3.10</p> <p>n. "Team Leader" shall have a meaning specified in clause Error! Reference source not found. 4.4</p> <p>o. "Performance Security" shall have a meaning specified in clause 7.3 7.1</p> | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |

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| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| 97 | Section V : Draft Contract Page 45/79 | Clause 2.3: Termination of Agreement for failure to commence Services | Bidder requests Employer to modify the Clause as follows - "If the Service Provider does not commence the Services within the period specified in Clause 1.2.2 2.2 above, iCEM may, by not less than 1 (one) weeks' notice to the Service Provider, declare this Agreement to be null and void, and in the event of such a declaration, this Agreement shall stand terminated and the Service Provider shall be deemed to have accepted such termination." | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |
| 98 | Section V : Draft Contract Page 47/79 | Clause 2.9.1: Termination by The Employer | Bidder requests Employer to modify the Clause as follows - " iCEM may, by not less than 30 (thirty) days' written notice of termination to the Service Provider, such notice to be given after the occurrence of any of the events specified in this Clause 1.1.2.9.1 , terminate this Agreement if: a) the Service Provider fails to remedy any breach hereof or any failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause 1.2.8 2.8 hereinabove, within 30 (thirty) days of receipt of such notice of suspension or within such further period as iCEM may have subsequently granted in writing; | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |
| 99 | Section V : Draft Contract Page 48/79 | Clause 2.9.1 (c) : Termination by The Employer | Bidder requests Employer to delete the Clause as follows - c) the Service Provider fails to comply with any final decision reached as a result of | RFP condition remains unchanged. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | arbitration proceedings pursuant to Clause 9 hereof; | |
| 100 | Section V : Draft Contract Page 48/79 | 2.9.2. By Service Provider | Bidder requests Employer to modify the Clause as follows - "The Service Provider may, by not less than 30 (thirty) days' written notice to iCEM, such notice to be given after the occurrence of any of the events specified in this Clause 1.1.2.9.2 , <i>terminate this Agreement if: "</i> | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |
| 101 | Section V : Draft Contract Page 48/79 | 2.9.3. Cessation of rights and obligations | Bidder requests Employer to modify the Clause as follows - "Upon termination of this Agreement pursuant to Clauses 1.2.3 2.3 or 1.2.9 2.9 hereof, or upon expiration of this Agreement pursuant to Clause 0 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, or which expressly survives such Termination; (ii) the obligation of confidentiality set forth in Clause 0 2.4 hereof; (iii) any right or remedy which a Party may have under this Agreement or the Applicable Laws. | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |
| 102 | Section V : Draft Contract Page 48/79 | 2.9.4. Cessation of Services | Bidder requests Employer to modify the Clause as follows - Upon termination of this Agreement by notice of either Party to the other pursuant to Clauses 1.1.2.9.1 or 1.1.2.9.2 hereof, the Service Provider shall immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | <i>prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Service Provider and materials furnished by iCEM, the Service Provider shall proceed as provided respectively by Clauses 1.3.8 3.8 or 0 hereof.</i> | |
| 103 | Section V : Draft Contract Page 49/79 | 2.9.6. Disputes about Events of Termination | Bidder requests Employer to modify the Clause as follows - If either Party disputes whether an event specified in Clauses 1.1.2.9.1 or 1.1.2.9.2 hereof has occurred, such Party may, within 30 (thirty) days after receipt of notice of termination from the other Party, refer the matter to arbitration pursuant to Clause 9 hereof, and this Agreement shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award. | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |
| 104 | Section V : Draft Contract Page 49/79 | 3.1.2. Terms of Reference | Bidder requests Employer to modify the Clause as follows - The scope of Services to be performed by the Service Provider is specified in the Terms of Reference (the "TOR") at RFP SECTION II and subsequent Clarifications/Corrigendums/Amendments (if any) . The Service Provider shall provide the Deliverables specified therein in conformity with the time schedule stated therein. | Agreed. |
| 105 | Section V : Draft Contract Page 50/79 | 3.3. Liability of the Service Provider | Bidder requests Employer to modify the Clause 3.3.2 as follows - "The Service Provider shall, subject to the | The cross references of the RFP clauses stand updated as per Annexure 1 of Corrigendum 1 document. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | <p>limitation specified in Clause Error! Reference source not found. 3.3.3, be liable to iCEM for any direct loss or damage accrued or likely to accrue due to deficiency in Services rendered by it."</p> | |
| 106 | Section V : Draft Contract Page 50/79 | 3.3. Liability of the Service Provider | <p>Bidder requests Employer to modify the Clause 3.3.3 as follows -</p> <p>"Notwithstanding anything to the contrary, the aggregate maximum liability of the Service Provider under this Contract shall not exceed the fees received by the Service Provider under this Contract (including all types of liabilities) be limited to providing Corrective services."</p> <p><i>Considering that the present assignment pertains to feasibility study, Consultant assures that it shall provide the Corrective engineering for the errors solely attributable to the Consultant. Also it may be noted that the modification proposed by the Bidder is in line with the general industry practice for feasibility studies. Accordingly bidder requests Company to kindly consider the proposed modification.</i></p> | RFP condition remains unchanged. |
| 107 | Section V : Draft Contract Page 52/79 | 3.10. Insurance to be taken out by the Service Provider | <p>Employer may appreciate that bidder, being a CPSE organization, maintains necessary insurances including workman compensation, GPAI. Further, considering that the scope pertains to feasibility study, bidder requests Employer to kindly delete the following clause.</p> <p>"(i) The Service Provider shall procure and</p> | RFP Conditions prevails generally, however in case of Central PSEs, standard policies of the organisation can be accepted for insurance provided (i) such standard policies exist in written form, (ii) are provided and attached along with the bid, and (iii) are followed as a standard practice. The employer has the right |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | maintain, at its own cost, Professional Liability Insurance or other appropriate insurance required as per the Good Industry Practice or Service Provider's own standard practices during the Contract Period insurance (the "Insurance"). At the Employer's request, the Service Provider shall provide evidences of insurance covers or a certificate of all insurances maintained on request of the Employer." | to ask for some changes in the standard policies if it deems expedient in the interest of the project. |
| 108 | Section V : Draft Contract Page 55/79 | 7.2 Liquidated Damages | Considering that the present assignment pertains to Feasibility study for an emerging sector and also as a general industry practice for such feasibility studies, bidder requests Employer to waive off the applicability of Liquidated Damage for the subject assignment. Bidder further assures that in case of any errors for reasons solely attributable to the Service Provider, the Service Provider shall provide Corrective engineering services to rectify the error. | RFP condition remains unchanged. |
| 109 | Section V : Draft Contract Page 57/79 | 9.2 Arbitration | (a). Employer is an autonomous institution established by the Government of Gujarat under the auspices of the Gujarat Mineral Development Corporation Ltd. (GMDC). Bidder also being a CPSE organization, bidder proposes that all disputes that may arise between bidder and Employer may be resolved by the Administrative Mechanism for Resolution of CPSES Disputes (AMRCD) in compliance to DPE OM No. | GMDC being a state PSE and not party to AMRCD. RFP conditions remain unchanged. |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sl. No. | Clause No. | Clause Description | Pre-Bid queries/ Clarification | Draft Response/ Addendum/ Corrigendum if any |
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| | | | <p>05/0003/2019-FTS-10937 dated 14th December, 2022. The following clause is proposed instead:</p> <p>“In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between CPSEs and Government / Organizations(excluding disputes relating to Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14th December,2022 and the decision of AMRCD on the said dispute will be binding on both the parties.”</p> | |
| 110 | <p>Clause under the head "Definations"</p> <p>Pt.no.7 Page no. 5</p> | <p>"Consortium" shall mean the group of legally constituted entities, who have come together to participate in this RFP captioned.A Consortium is not permitted to participate under the terms of this RFP.</p> | <p>"Consortium" shall mean the group of legally constituted entities, who have come together to participate in this RFP captioned. A Consortium is not permitted to participate under the terms of this RFP.</p> <p>Allowing participation through consortium in this bid will attract participation of wider pool of experienced bidders resulting into better price discovery for GMDC. This will also result into preparation of better quality and technically sound feasibility study report for this project</p> | <p>RFP condition remains unchanged.</p> |

Annexure 1: Updated cross references of the RFP clauses.

| Sr. No. | RFP Section | Clause updated as |
|---------|------------------------------------|---|
| 1 | Definitions | 14. "EMD/ Bid Security" means the Bid security/ earnest money deposit to be submitted by the Bidder as per clause 2.5 of SECTION III. |
| 2 | | 21. Technical Score shall mean score obtained by Service Provider as per the Technical Score system provided in clause 5.2 of RFP SECTION III. |
| 3 | Section 3: Instructions to bidders | 2.1 Bid Validity b) Bid Security/EMD for the period of the extension, and in compliance with Clause 2.5 of RFP SECTION III in all respects. |
| 4 | | 2.5 Earnest Money Deposit ii. as may be mutually agreed between Employer and Bidder from time to time as per clause 2.1 of RFP SECTION III. |
| 5 | | 4.4 Submission Format & Sealing and Marking of Proposals a) and in approved format as specified in clause 2.5 and RFP Fees as specified in clause 1.5 shall be sealed in an envelope on which the following shall be super scribed: |
| 6 | | 5.3. Evaluation of Price Bid and Financial Score in clauses 6.2(a), 5.1 and 5.2 respectively) Bidders shall be |
| 7 | | 6.2 Evaluation of Technical Bid a) 1) (ii) Technical Bid is accompanied by RFP fee and the EMD as specified in the clause 1.5 and 2.5 of ITB respectively. c) 1) Technical Marking System provided clause 5.2 of ITB.... 6.3 Opening of Price Bid (ii) Technical Score in accordance with Clause 6.2, 5.1 and 5.2 shall be opened |
| 8 | Section 5: Draft Agreement | AND referred to as the "Service Provider/Consultant" |
| 9 | | 1.1 Definition and Interpretation h. "Dispute" shall have a meaning specified in clause 9.1 i. "Effective Date" shall have meaning specified in clause 2.1. j. "Force Majeure" shall have a meaning specified in clause 2.7.1. k. "Insurance" shall have a meaning specified in clause 3.1.1. n. "Team Leader" shall have a meaning specified in clause 4.5 |

Answer to Pre- Bid Queries and Corrigendum - 1

| Sr. No. | RFP Section | Clause updated as |
|---------|-------------|--|
| 10 | | <p>2.9.1. Termination by The Employer occurrence of any of the events specified in this Clause 2.9.1, terminate this Agreement</p> <p>2.9.2 By Service Provider occurrence of any of the events specified in this Clause 2.9.2, terminate this Agreement.....</p> <p>2.9.3 Cessation of rights and Obligations</p> <p>Upon termination of this Agreement pursuant to Clauses 2.3 or 2.9 hereof, or upon expiration of this Agreement pursuant to Clause 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, or which expressly survives such Termination; (ii) the obligation of confidentiality set forth in Clause 3.3 hereof; (iii) any right or remedy which a Party may have under this Agreement or the Applicable Laws.</p> <p>2.9.4 Cessation of Services Upon termination of this Agreement by notice of either Party to the other pursuant to Clauses 2.9.1 or 2.9.2 hereof, the Service Provider shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Service Provider and materials furnished by iCEM, the Service Provider shall proceed as provided respectively by Clauses 3.8 or 3.9 hereof.</p> |
| 11 | | <p>2.9.6 Disputes about Events of Termination whether an event specified in Clauses 2.9.1 or 2.9.2 hereof has occurred, such Party may, within 30 (thirty)</p> |
| 12 | | <p>3.3 Liability of Service provider 3.3.2subject to the limitation specified in Clause 3.3.3, be liable to iCEM for any direct</p> |
| 13 | | <p>3.9 Accuracy of Documents (i)Subject to the provisions of Clause 1.3.4, it shall indemnify iCEM </p> |