

REPLY TO PREBID QUERY LOT 1 DATED 11.12.2024
EOI NO: PNMM/PC-217/EOI/E-001/2024 Dated 12.09.2024

**EXPRESSION OF INTEREST (EOI) PRE-QUALIFICATION QUERIES OF LICENSORS OF COAL GASIFICATION TECHNOLOGY FOR
PROPOSED COAL TO SYNTHETIC NATURAL GAS (SNG) PLANT, AT BARDHAMAN, WEST BENGAL, INDIA**

S.No.	EOI Clause	Bidder Query	Page No. of EOI	Bidder Comments	PDIL/GAIL/CIL reply
SECTION-1 INVITATION FOR EXPRESSION OF INTEREST (EOI)					
3.1 (A) Technology/Technical Criteria:					
1	3.1.2	The Coal Gasification technology of the Licensor shall have at least one proven operating plant having one or multiple coal Gasifiers operating successfully on commercial basis with ash content of minimum 24% (at 60% RH & 40oC) and producing effective Syn gas exiting each Gasifier equivalent to minimum quantity of 40,000 NM3/hr, of H2+CO. The Licensor shall provide details of at least one plant which has operated commercially, for a minimum period of 8000 hours of continuous operation in 12 months period at not less than 60% of design capacity of the Gasifiers, in the last 7 (seven) years reckoned from final bid due date.	6 of 19	Ash content for the reference plant shall be minimum 24% as received.	Noted, may be considered as minimum 24% Ash (As Received Basis) Please refer the amendment -1
2	3.1.4	Licensor shall submit documentary proof from their plant owner OR their own plant as operators in the form of plant logbooks and laboratory analysis OR any other documents to verify the quality and quantity of coal processed and the throughput achieved in Gasifier.	6 of 19	We are unable to submit customer log books, lab analysis etc as it is confidential information	Documents shall be submitted as per EOI Document. Moreover bidder may mask confidential information mentioned therein, however the desired information asked in the EOI/tender criteria must be visible.
3.1 (C) Authentication of Documents					
3		Financial Criteria: (ii) For Foreign bidder: Bidder to submit Audited Financial Statement of immediate preceding financial years (as mentioned above) along with format F-4 for Net worth Further Copy of audited annual financial statements submitted in bid shall be certified true copies, duly signed, dated and stamped by an official, authorized for this purpose in Indian Embassy/ High Commission in bidder's country. However, member countries of Hague Convention 1961, supporting document pertaining to financial BEC Apostille affixed by competent authorities designated by the government of bidder's country shall also be acceptable.	8 of 19	Air Products is a publicly traded company in the US on NYSE. Air Products' financial statements are audited by Auditors, signed off and published with the SEC. We request PDIL to accept Air Products SEC filed Form 10K.	Documents shall be submitted as per EOI Document. Moreover bidder may mask confidential information mentioned therein, however the desired information asked in the EOI/tender criteria must be visible.
3.2 General					

4	3.2.7	<p>Licensors are to submit documentary evidence to support the references provided herein for fulfilling the Technology Criteria of EOI. The following are minimum documents required:</p> <ol style="list-style-type: none"> a. Details of reference unit including the details of contact person(s). b. Extract of License agreement or relevant document as proof of same. c. End user certificate from the licensee (on licensee's letterhead) to detail out following: <ol style="list-style-type: none"> i Capacity of the unit in terms of: ii Numbers of gasifiers (operating and standby) & Type iii Gasifier operating Pressure & Temperature iv Coal feed to each gasifier (MT/day) (full details of analysis of coal used would have to be provided) v Total clean Syn gas produced exiting Gasifiers (H₂+CO), NM³/hr vi Total Raw Syn gas produced exiting gasifiers, NM³/hr vii End product and Capacity of end product. viii Tentative analysis (Proximate Analysis, Ultimate Analysis, Ash Flow Temperatures) of Coal used in gasifier(s). ix Raw syngas composition x Coal Milling & Drying d. Date of commissioning & commercial production. e. Technology involved highlighting the following: <ol style="list-style-type: none"> i. Gasification process i.e. Moving Bed or Fluidised Bed or Entrained Bed Type. ii. Raw gas pre-treatment process. iii. Raw gas final treatment process and final gas composition. f. Commercial performance of the unit for at least one year 	8 of 19	Information which will be submitted shall be in line with details already provided during pre EOI phase/discussions	Documents to be submitted as per EOI Document.
5	3.2.8	Licensors shall furnish details of the offered technology (Coal preparation to Clean Synthesis Gas) as per FORM-3.	9 of 19	Information which will be submitted shall be in line with details already provided to PDIL during pre-EOI phase//discussions	Documents to be submitted as per EOI Document.

6	3.2.13	Licensors shall submit the Isometric & 3D modelling as part of the Technical package to Owner/LSTK bidder	10 of 19	Please note this information is not supplied by Licensor. It is part of the detailed engineering work done by EPC/LSTK contractor.	Noted , any support if, required by LSTK contractor shall be provided by Licensor in this regard.
7	3.2.14	Shortlisted Licensor shall share the relevant technical information with LSTK bidders to submit the bid to owner	10 of 19	Please clarify what relevant information is expected to be shared by Licensor with the LSTK bidder.	Licensors shall share the "Minimum Basic Technical Package" to enable LSTK bidder(s) to prepare its bid and participate in the Bid.
SECTION-2 INSTRUCTIONS TO LICENSORS FOR SUBMISSION OF EXPRESSION OF INTEREST					
8	2.3.3	Licensors shall submit the following for expressing their interest: i) Cover letter giving brief introduction and expressing interest to participate in bidding process. ii) Information details as per FORM-1 and Pre-qualification criterion as per FORM-2 along with supporting documents such as copies of work order, contract agreement, completion certificate, logbook etc. Bidder to submit offer as stipulated at Clause No.3.1.1. iii) Technical details of offered technology as per FORM-3 iv) Details of Net Worth of Licensor as per FORM-4. v) Audited Balance Sheet in support of Net worth of Licensor.	13 of 19	i. Noted ii. & iii. Information which will be submitted shall be in line with details already provided to PDIL during pre-EOI phase/discussions iv & v. Please refer our comments Sr. No. 3 above regarding- 3.1 (C) Authentication of Documents	Documents to be submitted as per EOI Document.
9	3.1.2	a. The gasifier capacity is being limited to entrained type gasifiers. The fixed bed dry bottom gasifiers dont have capacity beyond 37,500 Nm3 per hour. Please make the gasification technology agnostic, enabling a level playing field among all the technology providers. The capacity of the gasifiers has nothing to do with the overall efficiency of the plant. b. The clause should be modified as " the licensor shall provide details of at least one plant , which has operated commercially for a minimum period of 8000 hours of operation in at least 60% of design capacity of the gasifiers in the last 7 (seven) years reckoned from final bid due date .			a)Capacity shall be revised to 37500 Nm3/hr of (H2+CO) as the Qualifying capacity is for single gasifier. M/s JSPL has not attended the Pre-Tender Meet, further,JSPL after floating of the EOI, during the pre-Bid meeting, informed that to allow 'fixed bed dry bottom gasifiers' technology to qualify in the present EOI, Gasifier capacity of 37,500 Nm3/hr may be considered as qualifying criteria, In view of JSPL's request & to enable 'Fixed Bed gasifier technology' capacity may be revised. Please refer the amendment -1 b) Shall be as per EOI document, as we need a proven track record of operating the gasifiers continuously for atleast 8000 hours to check reliability, consistency & commercial viability.
10	3.1.3	The reference unit shall be "non -captive" should be removed. It does not add any value to the overall technology selection.			Documents to be submitted as per EOI Document.

11		<p>BHEL has successfully transitioned in the Indian thermal power sector from sub-critical to supercritical and ultra-supercritical technologies establishing itself as a leading manufacturer of power plant equipment. With over six decades of experience, BHEL is well-acquainted with the peculiar characteristics of Indian coal and has successfully executed EPC projects across various capacities for customers in the Central, state and private sectors.</p>			<p>As per EOI document, Prior Experience of Commercially Proven Coal Gasification Technology is mandatory for Qualification..Further, as per 3.1.3 of EOI document, Pilot plant, Laboratory Scale plants shall not be considered for qualification. Therefore, M/s BHEL's request is not acceptable at this stage</p>
12		<p>We wish to submit that BHEL has been pioneer in Coal Gasification in India for nearly four decades, beginning development of the same as early as in 1983. BHEL has successfully implemented Pressurized Fluidized Bed Gasification (PFBG) technology in plants ranging from 1.2 TPD to 168 TPD (coal throughput). The technical feasibility and design validation for scale-up have been evaluated and recommended by the technical/R&D committee appointed by GoI in 2005, under the aegis of Principal Scientific Advisor. Further, BHEL's 6.2 MW combined cycle demo plant at Trichy has operated for more than 10,000 hours (cumulative), utilizing high ash Indian coal. Further, a 0.25 TPD methanol generation pilot facility was also commissioned at Corp R&D Hyderabad (DST-funded project), to carry out the R&D activities. This is the first of its kind technology demonstration plant for coal to methanol in India.</p>			
13		<p>In addition to the above, a committee comprising of members from CIL & CMPDIL had acknowledged the BHEL's capabilities for Coal Gasification and recommended upscaling of BHEL's PFBG technology to the commercial level for CIL-BHEL JVC's Coal to 2000 TPD Ammonium Nitrate project. The design activities for the Gasifier of this project have been completed and been validated by Foreign & Indian experts. Furthermore, BHEL has state-of-the-art manufacturing units with the capability and capacity for manufacturing components/systems of coal to methanol/chemical plants.</p>			
14		<p>Allowing Indigenous Technology would result in self-reliance and is therefore in line with the 'Aatmanirbhar Bharat Abhiyaan' of the Government of India.</p>			

15		We request you to kindly allow that Joint Venture/Consortium in such way that Any member of the Joint Venture Consortium shall meet the requirements of PRE -QUALIFICATION CRITERIA Clause No. 3.0. 3.1 (A) Technolog) Technical Criteria individually. So that it will create Criteria more competition & win-win situation for all.			Documents shall be submitted as per EOI Document.
16	Annexure-III (Rev-1) FORM I	(ii) If having ToT from such a country, has been registered with the Competent Authority. (Evidence of valid registration by the Competent Authority shall be attached)	5 of 7	Dev energy requested the following: For kind request modification as highlighted below: This is considering procedures & protocols to be followed with Competent Authorities. (ii) If having ToT from such a country, has been registered with the Competent Authority. (Evidence of valid registration(/Applied for) by the Competent Authority (Department for Promotion of Industry and Internal Trade (DPIIT) authorisation or Ministry of Coal waiver under GFR 144(xi) Clause 15(iv) dtd. 23.02.2023) shall be attached) Application Copy of submission & Acknowledgement receipt documents to Competent Authorities shall be attached	Please refer the amendment -2
17		Form3_Rev-1			Revised Form 3 attached Please refer the amendment 1