



**ADHUNIK POWER & NATURAL
RESOURCES LTD.**

SECTION-I

**NOTICE INVITING TENDER
(NIT)**

ADHUNIK POWER & NATURAL RESOURCES LTD.

**INTERNATIONAL COMPETITIVE BIDDING
FOR
DESIGN, ENGINEERING, MANUFACTURE, ASSEMBLY, TESTING AT WORKS, SUPPLY, CIVIL,
STRUCTURAL AND ARCHITECTURAL WORKS, ERECTION, TESTING, COMMISSIONING AND
O&M OF RETROFITTING EMISSION CONTROL SYSTEM (FGD SYSTEM) AT 2X270 MW UNITS
(PHASE-I) PADAMPUR, JHARKHAND**

NOTICE INVITING TENDER

For and on behalf of ADHUNIK POWER & NATURAL RESOURCES LTD. (EMPLOYER), Head - Contracts invites sealed bids in TWO STAGE (i.e. Stage-I: Techno Commercial Bid and Stage-II: Price Bid) from eligible bidders on total EPC basis.

A. Scope of Work:

The Brief Scope of Work is as under:

Design, Engineering, Manufacture, Assembly, Testing at works, Supply, Civil, Structural and Architectural Works, Erection, Testing, Commissioning and O&M including Performance & Guarantee Testing of Retrofitting Emission System (FGD System) at 2x270 MW units (Phase - I) at Padampur Thermal Power Plant, Jharkhand.

B. Schedule of Bid Activities:

Bid Documents are available for sale in the office of Head - Contracts. Bidding documents can also be downloaded from Adhunik Power & Natural Resources Ltd. Website i.e. <http://www.adhunikpower.com> on registration and online payment (non-refundable) towards cost of bidding documents and downloaded documents can be used for bidding purpose.

The schedule of bid activities is as follows:

Cost of Bidding Document (non-refundable)	INR 20,000/- plus GST @ 18% (Indian Rupee Twenty Thousand plus GST)
Date of commencement for sale of Bidding Document:	On September 07, 2022 at 11:00 hrs.
Date and time of closing the sale of Bidding Document:	On September 22, 2022 at 16:00 hrs.
Date of receipt of bid queries	Latest by September 15, 2022
Pre bid meeting	September 16, 2022 at 11:00 hrs.
Last date for receipt of Techno Commercial bid (Stage-I) and Price bid (Stage-II) in separate sealed envelope	Till September 22, 2022 up to 13:00 hrs.
Schedule of Opening of Bids:	
Stage – I	On September 22, 2022 at 15:00 hrs.

(Techno-Commercial bid)	Bids which have been submitted without proof for Bid Security will be rejected.
Stage – II (Price bid)	Date for opening of Price Bid (Stage-II) shall be intimated separately after opening of Techno-Commercial Bid (Stage-I) to the qualified bidders of Stage-I.

- C.** All Bids must be accompanied by Bid Security for an amount of Rs. 3,00,00,000/- (Rupees Three Crores only) in the form of Bank Guarantee as per details provided in the Bidding documents.

Any Bid not accompanied by an acceptable Bid Security in a separate sealed envelope shall be rejected by the Employer as being non-responsive and returned to the Bidder without being opened.

D. Qualification Requirement:

In addition to the requirements stipulated in Section ITB (Instructions to Bidder), the following shall also apply:

1.0 Technical Criteria

The Bidder should meet the qualifying requirements stipulated in any one of the qualifying routes i.e. Route-1 (Clause 1.1) or Route-2 (Clause 1.2) or Route-3 (Clause 1.3) including requirements stipulated in sub clauses of respective Route. In addition, the Bidder should also meet the requirements stipulated under clause 2.0 together with the requirements stipulated under Section-II: ITB.

1.1. Route-1: Qualified wet limestone based forced oxidation Flue Gas Desulfurization (FGD) system Manufacturer (QFGDM)

- 1.1.1. The Bidder should have designed, engineered, supplied, erected/ supervised erection and commissioned/supervised commissioning of at least two (2) no. of wet limestone based Flue Gas Desulfurization System, consisting of absorber system, having flue gas treatment capacity of not less than 12,00,000 Nm³/hr/unit, with desulfurization efficiency of at least 90%, operating in a pulverised coal fired power plant. The above wet limestone based Flue Gas Desulfurization System should have been in successful operation for a period not less than one (1) year in India or not less than 3 years in company outside India prior to the date of Techno- Commercial bid submission. Such Wet Limestone based Flue Gas Desulphurisation system should have achieved all performance guarantees.

- 1.1.2. In case of award of a project, the QFGDM will be required to furnish an on demand bank guarantee for an amount of 5% of the total Contract Price of the Flue Gas Desulfurization System Package.

- 1.1.3. The Bidder should have a registered office in India with qualified technical and commercial team to set up the FGD System on EPC mode.

1.2. Route-2: EPC Contractor with Collaboration with QFGDM

- 1.2.1. The Bidder should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 10 years, large industrial projects on EPC basis (with or without civil works) in the area of environment protection, power, steel, oil & gas, petro-chemical, fertilizer, Flue Gas Desulfurization and / or any other process industry with the total

value of such projects being INR 500 Crore or more (in single or multiple contract) and at least one project should have a contract value of INR 100 Crore or more. These projects shall be in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid submission.

- 1.2.2. Bidder should also have a valid ongoing collaboration with a QFGDM meeting requirements of clause 1.1.1 on its own, valid minimum up to the end of the Defect Liability Period of the FGD System as per Contract. In such a case Bidder can either source the FGD System from such manufacturer or manufacture/get manufactured the FGD System as per the design and manufacturing drawings of such QFGDM.
- 1.2.3. The Bidder shall furnish a Deed of Joint Undertaking (DJU) or the Collaboration Agreement executed by it and the QFGDM. The DJU shall be submitted along with Techno-Commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.
- 1.2.4. In case of award of FGD System, the Bidder will be required to furnish an on demand bank guarantee for an amount of 5% of the total Contract Price of the Flue Gas Desulfurization System Package.

1.3. Route-3: EPC Organization with Collaboration and Technology Transfer Agreement with QFGDM

- 1.3.1. The Bidder should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 10 years, large industrial projects on EPC basis (with or without civil works) in the area of environment protection, power, steel, oil & gas, petrochemical, fertilizer, Flue Gas Desulfurization and / or any other process industry with the total value of such projects being INR 500 Crore or more (in single or multiple contract) and at least one project should have a contract value of INR 100 Crore or more. These projects shall be in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid submission.
- 1.3.2. Bidder should also have a valid ongoing collaboration and technology transfer agreement with a QFGDM meeting requirements of clause 1.1.1, valid minimum up to the end of the Warranty Period of the FGD System as per the Contract. In such a case Bidder can either source the FGD System from such manufacturer or manufacture/ get manufactured the FGD System as per the design and manufacturing drawings released by such QFGDM.
- 1.3.3. The Bidder shall furnish a Deed of Joint Undertaking (DJU) executed by it and the QFGDM, in which the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the FGD System including meeting the technical guarantees. The DJU shall be submitted along with Techno-Commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.
- 1.3.4. In case of award of a project, the QFGDM will be required to furnish an on demand bank guarantee for an amount of 5% of the total Contract Price of the Flue Gas Desulfurization System Package in addition to the Contract Performance Bank Guarantee to be furnished by the Bidder.
- 1.3.5. The Bidder should have a registered office in India with qualified technical and commercial team to set up the FGD System on EPC mode.

Notes for clause 1.0

(1) Definitions

- i) "QFGDM" (Qualified wet limestone based forced oxidation Flue Gas Desulfurization (FGD) system Manufacturer) means a manufacturer meeting requirements stipulated at 1.1.1.
- ii) Whenever the term 'coal fired' is appearing above, "Coal" shall be deemed to also include bituminous coal/ brown coal/ Anthracite coal/ lignite.
- iii) "Flue Gas Desulfurization System" or "FGD System" wherever appearing above shall mean consisting of at least Absorber System.

(2) Erection/ Commissioning

Erection/ supervision of erection and commissioning/ supervision of commissioning shall be in the scope of the Bidder as mentioned in clause 1.1.1. The Bidder should have acted as a technical supervisor for erection and commissioning. Necessary documents/ certificates from the client, in support of above shall be furnished along with the Techno -Commercial bid.

(3) Direct / Indirect order

The Bidder/ QFGDM shall also be considered qualified, in case the award for executing the reference works has been received by the Bidder/ QFGDM either directly from owner of plant or any other intermediary organization. However, a certificate from such owner of plant or any other intermediary organisation shall be required to be furnished by the Bidder along with its Techno-Commercial bid in support of the Bidder's/ QFGDM claim of meeting the qualification requirement as per clause 1.1.1, 1.2.1 and 1.3.1 above. Further, certificate from owner of the plant shall also be furnished by the Bidder along with the Techno-Commercial bid as specified at clause 1.1.1, 1.2.1 and 1.3.1 above for erection, commissioning and successful operation.

(4) Technology Transfer Agreement (Applicable for Clause 1.3)

The bidder shall have a technology transfer agreement as on the date of Techno- Commercial bid submission between the Bidder & QFGDM which shall necessarily cover transfer of technological knowhow for Wet Limestone based Flue Gas Desulfurization System, in the form of complete transfer of design dossier, design software, drawings and documentation, quality system manuals and imparting training to the relevant personnel of the Bidder.

- (5) The critical major equipment of FGD System, as listed below, shall be supplied only from such manufacturer(s) who has previously designed (either by himself or under collaboration/ licensing agreement), manufactured/ got manufactured the respective equipment(s) of the type, application and minimum equipment rating as stipulated below such that the respective equipment(s) should have been in successful operation in at least one (1) plant for a period of not less than one (1) year as on date of submission of Techno-Commercial bid. Further it is also a mandatory condition that these major / critical equipment / systems offered by the bidder shall be either manufactured by QFGDM or shall have the approval and consent from QFGDM as pre-requisite which shall be read in conjunction with clauses 1.3 herein above:

Major critical equipment / systems

- (i) Booster Fans
- (ii) Slurry Recirculation Pumps
- (iii) Oxidation Blowers
- (iv) Wet limestone Grinding mills
- (v) Slurry Pumps
- (vi) Agitators

- (vii) Vacuum Belt filters
- (viii) Equipment Lining
- (ix) Transformers
- (x) Motors
- (xi) HT/ LT switchgear

2.0 Financial Criteria

2.1. Financial Criteria of Bidder

- 2.1.1. The average annual turnover of the Bidder, in the preceding three (3) financial years as on the date of Techno-**Commercial** bid submission, should be positive and not be less than the value indicated in the following table:

Average annual turnover of the Bidder, in the preceding (3) financial years as on the date of Techno-Commercial bid submission	not less than INR 100 Crore
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- 2.1.2. Net worth of the bidder should be positive for the last three financial years.
- 2.1.3 In cases where audited results for the last financial year as on the date of Techno-Commercial bid submission are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Bidder is not able to submit the Certificate from a practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a Certificate would be required from the CEO/CFO as per the format enclosed in Section VI "Forms and Procedures" in the bidding documents stating that the Financial results of the Company are under audit as on the date of Techno-Commercial bid submission and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.
- E.** Notwithstanding anything stated above, the Employer reserves the right to assess the capabilities and capacity of the Bidder / its Collaborators / Associates to perform the Contract, should the circumstances warrant such assessment in the overall interest of the Employer.
- F.** Employer reserves the right to reject any or all bids or cancel / withdraw the invitation for Bids without assigning any reason whatsoever and in such case no Bidder / intending Bidder shall have any claim arising out of such action.
- G.** A complete set of Bidding Documents may be downloaded by any interested Bidder on payment (non-refundable) of the cost of the documents as mentioned above in the form of transfer of amount to the following account. On producing the evidence of online transfer, the weblink for vendor registration will be shared for registering the Bidder. After registration and generation of the vendor code, the soft copy of the bidding documents will be shared thru web link.

Organization Name	Adhunik Power and Natural Resources Limited
Account Number	32966504854
Bank Name	State Bank of India
Branch Code	70248
Bank Address	SME Park Street Branch, Kolkata - 700016
IFSC Code	SBIN0070248

- H.** Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.

I. Project Address:

Adhunik Power & Natural Resources Limited
Village Padampur, Behind P.G.C.I.L. Substation,
Saraikela – Kharswan, Jharkhand – 832402

J. Address for Communication:

Mr. Amulya Kumar Sethi, AGM - Purchase & Mr. Kamlesh Kumar Jha, SM - Environment
Adhunik Power & Natural Resources Limited
Village Padampur, Behind P.G.C.I.L. Substation,
Saraikela – Kharswan, Jharkhand – 832402
Contact No.: +91-7604017976 | +91-7763818994
Email: fgd@adhunikpower.co.in

K. Corporate Office:

Adhunik Power & Natural Resources Limited
468, 1st Floor, Phase-III, Udyog Vihar,
Gurgaon, Haryana – 122016
Contact: +91-124-6054500