NTPC VIDYUT VYAPAR NIGAM LIMITED

(A wholly owned Subsidiary of NTPC Limited)



BIDDING DOCUMENTS

FOR

EPC PACKAGE OF MSW TO TORREFIED CHARCOAL FACILITY (NOIDA-GNIDA PROJECT)- (900 TPD)

BIDDING DOCUMENT NO.: NVVN/CandM/RE-189/2023-24
(This Document is meant for the exclusive purpose of bidding against this Bid Document No./ Specification and shall not be transferred, reproduced or otherwise used for purposes other than that for which it is specifically issued)

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DISCLAIMER

This Bid Document is not an agreement or an offer or invitation by NVVN to Bidders or any third party. The purpose of this Bid Document is to provide Bidders with information to assist in the formulation of their Bids.

This Bid Document does not purport to contain all the information each Bidder may require. This Bid Document may not be appropriate for all persons, and it is not possible for NVVN to consider the particular needs of each party who reads or uses this Bid Document. Each Bidder should conduct its own investigations and analysis and should verify the accuracy, reliability and completeness of the information in this Bid Document and obtain independent advice from appropriate sources.

NVVN does not make any representation or warranty as to the accuracy, reliability or completeness of the information in this Bid Document.

Neither NVVN nor its employees shall have any liability to any Bidder or any other person under the law of contract, or the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with this Bid Document, or any matter deemed to form part of this Bid Document, the award of the Contract, or any other information supplied by or on behalf of NVVN or its employees or otherwise arising in any way from the selection process for the award of the Contract.

NVVN reserves the right in its sole and unfettered discretion, without any obligation or liability whatsoever to accept or reject any or all of the Bids at any stage of the bidding process without assigning any reasons.

NVVN reserves the right to change, modify, add or alter the Bid Document at any time during the bidding process.

BIDDING DOCUMENTS

FOR

EPC PACKAGE OF MSW TO TORREFIED CHARCOAL FACILITY (NOIDA-GNIDA PROJECT)

BID DOCUMENT NO.: NVVN/CandM/RE-189/2023-24

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Other Standard Forms & Procedures

Acronyms

BDS Bid Data Sheet

CIF Cost, Insurance and Freight

CIP Carriage and Insurance paid to (place)

CPM Critical Path Method

EDI Electronic Data Interchange

EXW Ex factory, ex works or ex warehouse

FCA Free Carrier

FOB Free on Board

FOR Free on Rail / Road

FP Forms & Procedures

GCC General Conditions of Contract

ICC International Chamber of Commerce

IFB Invitation for Bids

ITB Instructions to Bidders

SCC Special Conditions of Contract

TS Technical Specifications and Drawings

UNCITRAL United Nations Commission on International Trade Law

INCOTERMS International Rules for interpreting Trade Terms.

GST Goods and Service Tax

Note: The terms EXW, CIF, etc. shall be governed by the rules prescribed in the current

edition of INCOTERMS, published by the international chambers of commerce, 38,

Cours Atbert 1er. 75008, Paris, France.

SECTION - I INVITATION FOR BIDS (IFB)

NTPC VIDYUT VYAPAR NIGAM LIMITED (A wholly owned Subsidiary of NTPC Limited)

CONTRACT & MATERIALS, NOIDA

INVITATION FOR BIDS (IFB) FOR

EPC PACKAGE OF MSW TO TORREFIED CHARCOAL FACILITY (NOIDA-GNIDA PROJECT) (Domestic Competitive Bidding)

Bidding Document No.: NVVN/CandM/RE-189/2023-24

1.0 NTPC VIDYUT VYAPAR NIGAM LIMITED (NVVN) invites online Bids from eligible bidders on 'Single Stage Two Envelope' bidding basis (Envelope-I: Techno-Commercial Bid & Envelope-II: Price Bid) for aforesaid Package as per the scope of work briefly mentioned hereinafter:

2.0 BRIEF SCOPE OF WORK

Scope of Work shall include but not limited to:

The complete scope of the proposal for the Design, Engineering, Manufacture, Supply, Construction, Erection, Testing, Commissioning works including Operation & maintenance of the plant for an initial period of 2 year for the EPC PACKAGE OF MSW TO TORREFIED COAL FACILITY, shall be on the basis of single point responsibility, completely covering the following activities and services in respect of all the equipment & works specified and covered under the specifications:

- a) Basic Engineering of the plant including preparation of Plant Definition Manuals;
- b) Detailed design of all the equipment and equipment system(s) including civil, structure steel works included in bidder's scope.
- c) Providing engineering drawings, equipment sizing & performance data, instruction manuals, as built drawings and other information;
- d) Compliance with statutory requirements and obtaining clearances from statutory authorities, wherever required;
- e) Complete manufacturing including shop testing/type testing;
- f) Complete Civil, Structural and Architectural works, including survey, providing construction material and equipment, construction water supply, construction / permanent roads, drainage arrangements, fencing / boundary wall around the land boundary.
- g) Packing and transportation from the manufacturer's works to the site including logistic studies, customs clearance & port clearance, port charges, if any.
- h) Receipt, storage, preservation, handling and conservation of equipment at the site;
- g) Fabrication, pre-assembly, if any, erection, testing, commissioning and completion of facilities including putting into satisfactory operation all the equipment including successful completion of

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initial operation;

- h) Performance and guarantee tests after successful completion of initial operation;
- i) Furnishing of spares on FOR site basis.
- i) Reconciliation with customs authorities, as required.
- j) Conclusion of the contract.
- k) Insurance and other requirements for the complete EPC package in accordance with the provisions of general conditions of contract of the bidding document.

The Contractor shall be responsible for providing all material, equipment and service, which are required to fulfill the intent of ensuring operability, maintainability, reliability and complete safety of the complete work covered under this specification, irrespective of whether it has been specifically listed herein or not.

EXCLUSIONS:

Employer's scope shall be limited to providing only:

- 1. Supply of MSW at single point inside Plant Boundary
- 2. Provision of Encumbrance free Land
- 3. Provision of Electricity (11kV) at single point at Plant Boundary.
- 4. Provision of Sewage Treated Plant (STP) Water (~300 KLD) at single point at Plant Boundary.
- 5. Offtake of Process Inert
- 6. Offtake and Sale of Raw Materials
- 7. Obtaining necessary clearances for establishment of the said plant.

Detailed Scope of work has been specified in the bidding documents.

Detailed Scope of work has been specified in the Section VI – Technical Specification of bidding documents.

- 3.0 NVVN intends to finance subject Package through External Commercial Borrowings/ Domestic Commercial Borrowings / Own sources.
- 4.0 Detailed Specification, Scope of Work and Terms & Conditions are given in the Bidding Documents, which are available for examination and Sale at our GePNIC e-procurement portal https://eprocurentpc.nic.in as per following schedule:

Issuance of IFB	As per GePNIC portal
Bidding Document Sale Date & Time	As per GePNIC portal
Last Date for receipt of queries from bidders (if any) **	As per GePNIC portal

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Bid Submission Start	As per GePNIC portal	
Bid Submission End Date & Time	As per GePNIC portal	
Bid Opening Date & Time for Techno-Commercial Bid	As per GePNIC portal	
Price Bid Opening Date & Time	Shall be intimated after opening of Techno-Commercial Bid.	
Cost of Bidding Document	₹ 22,500/- (Indian Rupees Twenty-Two Thousand Five hundred only)	

^{*}Bidders are advised to visit the GePNIC (e-tender) portal of NTPC for updated bidding schedule of the Tender.

5.0 All bids must be accompanied by Bid Security for an amount of INR 5,00,00,000/- (Indian Rupees Five Crore only) in the form as stipulated in the Bidding documents. The same shall be submitted offline in physical form prior to bid submission end date and time.

ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY SHALL BE REJECTED BY THE EMPLOYER AS NON-RESPONSIVE AND SHALL NOT BE OPENED.

6.0 QUALIFYING REQUIREMENTS FOR BIDDERS

The Bidder should meet the qualifying requirements stipulated in any one of the qualifying routes i.e. Route-1 (clause 1.1.0) or Route-2 (clause 1.2.0) including requirements stipulated in sub clauses of respective routes. In addition, the Bidder should also meet the requirements stipulated under clause 2.0.0 together with the requirements stipulated under section ITB.

1.0.0 Technical Criteria

1.1.0 Route1: Qualified Torrefaction Technology Developer (QTTD)

1.1.1. The Bidder should have designed either by itself or under collaboration/ licensing agreement and installed at least one (01) number of reactor, employing Torrefaction technology, having capacity of at least 01 metric tonnes of input per day (TPD). The reference torrefaction reactor should have demonstrated successfully Torrefied Charcoal making process from MSW/RDF as input material prior to date of Techno-Commercial Bid opening. Plants having continuous or batch type operation will be considered.

1.2.0 Route 2: EPC company in Collaboration with QTTD

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^{**}No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries as specified above.

- 1.2.1. The Bidder should have executed EPC project(s) (with or without civil works) either as developer or as EPC contractor in the last 7 years, in the area of power, steel, oil & gas, petrochemical, fertilizer, bio-gas, waste management and / or any other process industry. At least, one of such project should have a contract value of INR 400 million or more and in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.
- 1.2.2. Such Bidder should collaborate and have a technology transfer/support agreement with a QTTD meeting requirements of clause 1.1.0 on its own, valid minimum up to the end of the defect liability period of the contract.

NOTES:

- (i) The Bidder shall submit Client certificate in support of meeting the requirements of Clause 1.1.0. In case of own built plant, self-certification to be submitted in support of meeting the requirements of Clause 1.1.0. However, Employer has the right to visit and inspect the reference plant to verify the details of plant. During Employer's visit, Bidder/ QTTD must demonstrate successful torrefaction of MSW/ RDF at the designated capacity.
- (ii) EPC bidder should have engineered/got engineered, supplied, erected/supervised erection & commissioned/supervised commissioning of the project. In case, erection / supervision of erection and commissioning / supervision of commissioning has not been in the scope of the Bidder as mentioned in clause 1.2.0, the Bidder should have acted as an advisor for erection and commissioning. Necessary documents / certificates from the client, in support of above shall be furnished along with the Techno-Commercial bid.

(iii) Direct / Indirect order

The Bidder/ QTTD shall also be considered qualified, in case the award for executing the reference works has been received by the Bidder/ QTTD either directly from owner of plant or any other intermediary organization. However, a certificate from such owner of plant or any other intermediary organization shall be required to be furnished by the Bidder along with its Techno-Commercial bid in support of the Bidder's/ QTTD's claim of meeting the qualification requirement as per clause 1.1.0 & 1.2.0 above. Further, certificate from owner of the plant shall also be furnished by the Bidder along with the Techno-Commercial bid for the successful operation as specified at clause 1.1.0 & 1.2.0 above.

(iv) Technology Support Agreement (TSA):

The bidder shall have a technology support agreement between the Bidder & QTTD, as on the date of Techno-commercial bid opening. The TSA shall be valid minimum up to the end of the defect liability period of the contract, for the end-to-end execution of the Torrefaction System.

(v) Technology Transfer Agreement (TTA) (Applicable for Clause 1.2.0)

The bidder shall have a technology license/transfer agreement as on the date of Technocommercial bid opening between the Bidder & QTTD which shall necessarily cover

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license/transfer of technological knowhow for Torrefaction System, in the form of complete transfer of design dossier, design softwares, drawings and documentation, quality system manuals and imparting relevant personnel training to the Bidder or in the form of support for the above. The TTA shall be valid minimum up to the end of the defect liability period of the contract, for the end-to-end execution of the Torrefaction System.

- (vi) "Municipal Solid Waste" or "MSW" shall include commercial and residential waste generated in a municipal or its notified areas in either solid or semi-solid form excluding industrial waste, bio-medical waste and e-waste, battery waste, radio-active waste generated in the area under the local authorities.
- (vii) "Refuse Derived Fuel" or "RDF" means the Waste component derived from combustible fraction of Municipal Solid Waste, other than chlorinated materials, in the form of pellets or fluff produced by drying, shredding, dehydrating and compacting of solid waste.

2.0.0 Financial Criteria

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 opening, should not be less than INR 246 Crore (Indian Rupees Two Hundred Forty Six Crore only) or in equivalent foreign currency.

In case a Bidder does not satisfy the average annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirements as above, provided that the Net Worth of such Holding Company as on the last day of the preceding financial year is at least equal to or more than the paid-up share capital of the Holding Company. In such an event, the Bidder would be required to furnish along with its Techno-Commercial bid, a Letter of Undertaking from the Holding Company, supported by the Holding Company's Board Resolution, as per the format enclosed in the bid documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.

2.1.2 Net worth of the bidder should not be less than 100 % (one hundred percent) of its paid up share capital as on the last day of the preceding financial year on the date of Techno-commercial bid opening. In case the Bidder does not meet the Net worth criteria on its own, it can meet the requirement of Net worth based on the strength of its Subsidiary(ies) and/or Holding Company and/or Subsidiaries of its Holding company wherever applicable. In such a case, however the Net worth of the Bidder and its Subsidiary(ies) and/or Holding Company and/or Subsidiary(ies) of the Holding Company, in combined manner should not be less than 100% (hundred percent) of their total paid up share capital. However individually, their Net worth should not be less than 75% (seventy five percent) of their respective paid up share capitals.

Net worth in combined manner shall be calculated as follows:

Net worth (combined) = $(X1+X2+X3)/(Y1+Y2+Y3) \times 100$

Where X1, X2, X3 are individual Net worth which should not be less than 75% of the respective paid up share capitals and Y1, Y2, Y3 are individual paid up share capitals.

2.1.3 In case the Bidder is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the Bidder can be considered acceptable provided the Bidder further furnishes the following documents for substantiation of its qualification:

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- (i) Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company..
- (ii) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed with the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statements of the Holding Company..

In cases where audited results for the last financial year as on the date of Techno Commercial bid opening 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 the bidding documents stating that the financial results of the Company are under audit as on the date of Techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available..

NOTES FOR CLAUSE 2.0.0

- (i) Net worth means the sum total of the paid-up share capital and free reserves. Free reserve means all reserves credited out of the profits and share premium account but does not include reserves credited out of the revaluation of the assets, write back of depreciation provision and amalgamation. Further any debit balance of Profit and Loss account and miscellaneous expenses to the extent not adjusted or written off, if any, shall be reduced from reserves and surplus.
- (ii) Other income shall not be considered for arriving at annual turnover.
- (iii) "Holding Company" and "Subsidiary Company" shall have the meaning ascribed to them as per Companies Act of India.
- (iv) For annual Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of Techno-Commercial bid opening shall be used.
- 7.0 A complete set of Bidding Documents may be downloaded by any interested Bidder from the e-Tender Portal as per specified schedule. The tender is invited under e-tendering process. The bidders can enrol themselves on the website https://eprocurentpc.nic.in/. The use of Digital Signature Certificate (DSC) Class- 3 key is mandatory for e-tendering activities. Accordingly, bidders should have Digital Signature Certificate (DSC) key of Class 3 to participate in e-tendering. Bidders, if required, can obtain DSC Class-3 key from agencies authorized by Govt. of India. The e-Tender Portal also has the user manuals with detailed guidelines on enrolment and participation in the bidding process.

No hard copy of Bidding Documents shall be issued. Bids shall be submitted ONLY at the e-Tender Portal i.e. https://eprocurentpc.nic.in/.

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- 8.0 Class-I local suppliers' and 'Class-II local suppliers' only are eligible to participate in this tender, as defined in the bidding documents/ Public Procurement (Preference to Make in India), Order 2017 and its subsequent amendments/ revisions issued by DPIIT. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.
- 9.0 Any 'Bidder from a country which shares a land border with India', as specified in the Bidding Documents, will be eligible to bid in this tender only if bidder is registered with the Competent Authority as mentioned in the Bidding Documents.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, will be eligible to bid only if the bidder is registered with the same competent authority.

However, the said requirement of registration will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects.

- 10.0 Transfer of Bidding Documents by one intending Bidder to another is not permissible.
- 11.0 Downloading/Issuance of Bidding Documents and /or submission of Bid shall not construe that bidder is considered qualified.
- 12.0 NVVN reserves the right to reject any or all bids or cancel/withdraw the Invitation for Bids (IFB) without assigning any reason whatsoever and in such case no bidder/intending bidder shall have any claim arising out of such action.

13.0 Address for communication:

Sr. Manager (C&M) NTPC VIDYUT VYAPAR NIGAM LIMITED

Engineering Office Complex, Plot No. A-8A Sector 24, Block A,

Noida, Uttar Pradesh 201301 Email: nvvncontracts@ntpc.co.in

Corporate Identification Number: U40108DL2002GOI117584,

website: www.eprocurentpc.nic.n

Phone No: 0120-4948587

14.0 **Registered Office**

NTPC VIDYUT VYAPAR NIGAM LIMITED, NTPC Bhawan, Core-7, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi – 110003

Corporate Identification Number: U40108DL2002GOI117584.

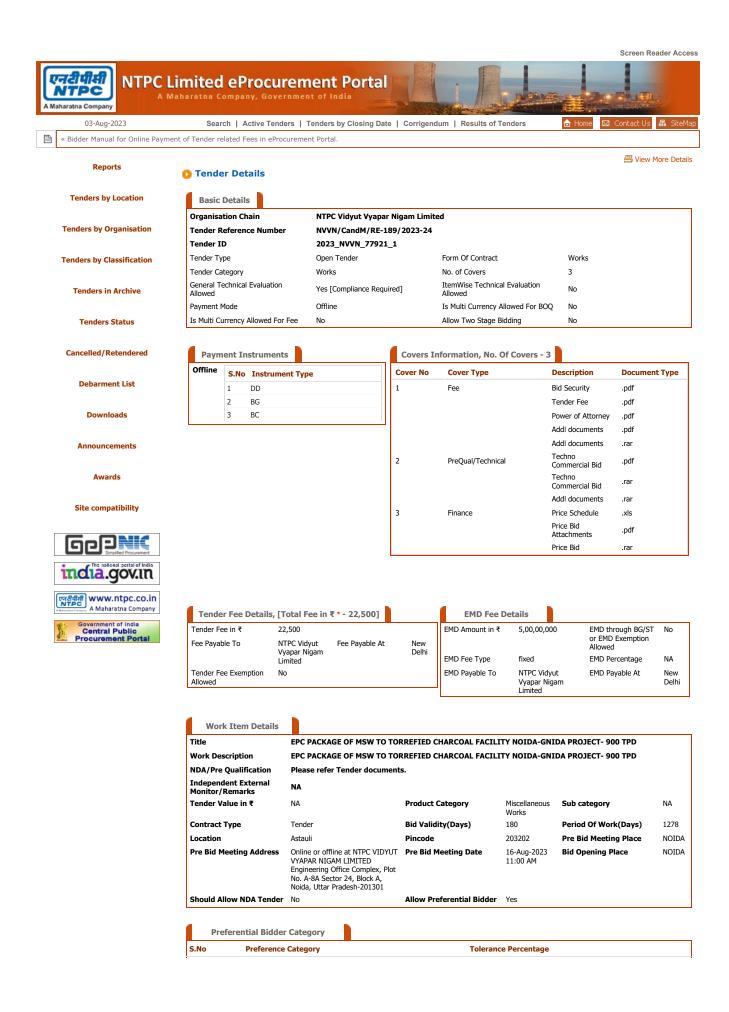
Website: www.nvvn.co.in

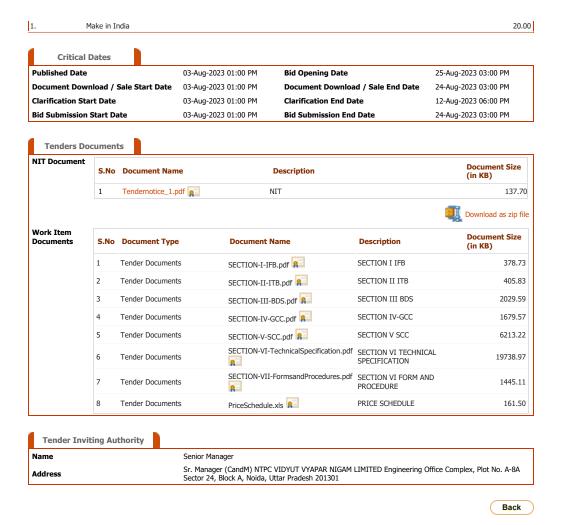
15.0 Other Instructions

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- i. Please use 'Online Bidder Enrollment' link provided on portal https://eprocurentpc.nic.in (GePNIC) to register
- ii. Go through Help, FAQ etc. as provided on the above portal.
- iii. Class III digital signature (DSC) is required for submission of BID on above portal.
- iv. Important Note: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of GePNIC.

GePNIC Helpdesk Telephone: 24X7 Customer Support +91-120-4001 002/+91-120-4200 462/ +91-120-4001 005/+91-120-6277 787





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Portal policies