

CORPORATE CONTRACTS, NOIDA

INVITATION FOR BIDS (IFB)

FOR

ASH HANDLING SYSTEM PACKAGE

FOR

**GADARWARA SUPER THERMAL POWER PROJECT STAGE-II (2X800 MW)
LOCATED AT**

DISTT. NARSINGHPUR, STATE OF MADHYA PRADESH, INDIA,

(Domestic Competitive Bidding)

IFB No.: 2025_NTPC_96095_1

Date: 09.04.2025

- A.** NTPC invites on-line bids for Ash Handling System Package for Gadawara STPP Stage-II (2X800 MW), at NTPC e-procurement portal of NIC at website-<https://eprocurentpc.nic.in/> on **Single Stage Two Envelope Basis (i.e., Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid)** from eligible Bidders for aforesaid package, as per the scope of work briefly mentioned hereinafter.

B. BRIEF SCOPE OF WORK

The Brief scope of work for the Ash Handling System Package for Gadawara STPP Stage-II (2X800 MW) is as follows:

Design, Engineering, Manufacture, Supply, Construction, Erection, Testing & Commissioning works for the Ash Handling System Package for Gadawara STPP Stage-II (2 X 800 MW) on the basis of single point responsibility, completely covering the following activities and services in respect of ACW & ECW system (for station auxiliaries of Ash Handling System Package) along with associated Electrical & civil works, Ash handling System, Dry Bottom Ash Handling system, Bottom ash disposal system, High Concentration Fly Ash Slurry disposal System & AWRS, Compressed Air System including main plant compressors, Air Conditioning & Ventilation Systems, Auxiliary Transformers, HT Switchgears, MV Bus-duct, DC Batteries, Battery chargers, LT switchgear & LT Bus Duct, LT Transformer (Outdoor), HT & LT power cables, LT control cables, Construction Power, Lightning Protection, Lighting, Cabling, Earthing, all Control & Instrumentation(C&I), Fireproof cable penetration sealing system, Solar PV plant on roof tops of buildings, Associated Civil, Structural & Architectural works for Ash handling system including AWRS, ACW & ECW system, earthing mat/grounding for the areas, Miscellaneous civil works including Roads & Drains, underground facilities like drainage, sewerage, trenches, Rain Water Harvesting, etc. 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 & Architectural works are 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. Compliance of safety norms as specified and as applicable.
- (e) Complete manufacturing including shop testing/type testing (wherever applicable);
- (f) The complete Civil, structural and architectural works;

- (g) Packing and transportation from the manufacturer's works to the site including logistic studies, insurance, customs clearance & port clearance, port charges, if any.
- (h) Receipt, storage, preservation, handling and conservation of equipment at the site;
- (i) Fabrication, pre-assembly, if any, erection, insurance, testing, commissioning and completion of facilities including putting into satisfactory operation all the equipment including successful completion of initial operation;
- (j) Performance and guarantee tests along with initial operation;
- (k) Supply of spares on FOR site basis;
- (l) Reconciliation with Customs Authorities;
- (m) Satisfactory conclusion of the Contract;
- (n) Insurance and other requirements
- (o) The plant shall be ZLD compliant

Note: Detailed scope of work has been specified in the bidding documents.

- C. NTPC intends to finance the aforesaid Package through External Commercial Borrowings/Domestic Borrowings/Own Resources.
- D. Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available at the NTPC e-procurement portal of NIC at <https://eprocurentpc.nic.in/>. The Bidding Schedule for the Tender is as under:

Issuance of IFB	09.04.2025
Bidding Document No	CS-8014-162-9
Cost of Bidding Document	INR 22,500 (Indian Rupees Twenty Two Thousand Five Hundred only)
Documents Download Date and Time	From 11.04.2025 onwards
Last date for receipt of queries from bidders	30.04.2025
Pre Bid Conference Date	30.04.2025 from 1100 HRS(IST)
Bid (both Techno-Commercial and Price) submission end date & time	Up to 1300 HRS (IST) on 15.05.2025
Date & Time for opening of Envelope-I (Techno-Commercial bid)	15.05.2025 at 1530 HRS (IST)
Date & Time for opening of Envelope-II (Price bid)	Shall be intimated after opening of Techno- Commercial Bid.

Note: Bidders are advised to visit the GePNIC (e-tender) portal of NTPC for updated bidding schedule of the Tender, if any.

It is to be noted that "No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries as specified at GePNIC portal of NTPC.

- E. All bids must be accompanied by Bid Security for an amount of **INR 10,00,00,000/- (Indian Rupees Ten Crore only)** in the form as stipulated 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. IN CASE THE BID SECURITY IS SUBMITTED THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE PROOF OF E-PAYMENT OF BID SECURITY EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING PORTAL.

- F. 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 enroll 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/>

G. **Qualifying Requirements for Bidders (QR):**

Qualifying Requirement (QR) for subject package is attached as **Appendix-I**.

- H. Class-I local suppliers are only 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.

Only Class-I local suppliers are eligible to Bid. Bids received (if any) from Class-II Local Supplier / Non Local Supplier shall be out rightly rejected.

- I. 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.

- J. Any 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 Competent Authority as mentioned in the Bidding Documents.

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.

- K. Transfer of Bidding Documents by one intending Bidder to another is not permissible.

- L. Downloading/Issuance of Bidding Documents and /or submission of Bid shall not construe that such Bidder is considered to be qualified.

- M. NTPC reserves the right to reject any or all bids or cancel/ withdraw the Invitation for Bids under subject IFB without assigning any reason whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.

N. **Address for Communication:**

DGM (CS) / AGM(CS)
NTPC Limited,
6th Floor, Engineering Office Complex,
A-8A, Sector-24, NOIDA,
Distt. Gautam Budh Nagar, (UP), INDIA Pin - 201 301
Tel. No.: +91-9650991817/9650099276
E-mail: amitk@ntpc.co.in/bmandal@ntpc.co.in
Websites: <https://eprocurentpc.nic.in/> or www.ntpctender.ntpc.co.in or www.ntpc.co.in

O. **Registered Office**

NTPC Limited
NTPC Bhawan, SCOPE Complex,
7, Institutional Area, Lodi Road,
New Delhi – 110003
Corporate Identification Number: L40101DL1975GOI007966,
Website: www.ntpc.co.in

Approved Qualifying Requirements for Gadarwara-II (2 X 800MW) Ash Handling System Package

- 1.0** In addition to qualifying requirements stipulated under Section ITB (Instruction to Bidder), the Bidder should also meet the qualifying requirements stipulated hereunder in clauses 1.1 or 1.2 or 1.3 and clause 2.1.0 & 2.2.0 (as applicable).

1.1 ROUTE- I (QAHPM Route: Qualified Ash Handling Plant Manufacturer Route):

The Bidder should be a supplier of ash handling systems and should have executed ash handling systems involving design, engineering, manufacturing/got manufactured, supply, erection /supervised erection and commissioning/ supervised commissioning for 1.1(a),1.1(b) and 1.1(c)

- (a) Pneumatic fly ash handling system for conveying** fly ash from ESPs of a single coal / lignite fired boiler unit by either:

(i) **Pressure conveying** system designed for 30 TPH or more conveying capacity.

OR

(ii) **Vacuum conveying** system designed for 30 TPH or more conveying capacity per vacuum extractor.

The reference fly ash handling systems should be of the same type i.e. pressure system or vacuum system, as is being offered by the Bidder.

An individual boiler unit having its own independent fly ash handling system up to wetting units/ dry dust collection buffer hoppers/intermediate Silos which includes, among others, independent fly ash handling equipment below ESP hoppers, independent ash conveying piping up to wetting units/ dry dust collection buffer hoppers can be considered as a plant for meeting the requirement above.

AND

- (b) Pneumatic Fly Ash Transportation System** for transporting fly ash from coal / lignite fired boiler unit having capacity of not less than 20 TPH for a conveying distance of not less than 500 meters.

Further, a transportation system provided for an individual boiler unit having dedicated transportation vessels below dry dust collection buffer hoppers and dedicated piping from dry dust collection buffer hoppers / intermediate Silos to storage silos, including storage silo equipment (like Vent Filter, Rotary Feeder, Ash Unloader/Telescopic chute, Ash Conditioner etc.) can be considered as a plant for meeting the requirement above.

AND

- (c) High Concentration Ash Slurry disposal system:**

Complete High Concentration ash slurry disposal system for handling not less than 40 tons of ash per hour for coal / lignite fired power stations which includes, among others, positive displacement ash slurry pumps & piping system with associated controls.

Notes to Clause no. 1.1

- (i) The activity of design and engineering under clause 1.1 (a) & (b) should have been carried out by the Bidder. The activity of design and engineering under clause 1.1 (c) should have been carried out either by the Bidder or through design agency/agencies having experience for high concentration ash slurry disposal system as in clause 1.1 (c). Supply of HCSD Pump from owner/EPC Contractor in the reference plant is also acceptable for the purpose of qualification.

- (ii) The systems mentioned at clause 1.1(a), (b), & (c) above, should have been in successful operation in at least one (1) plant for at least one (1) year prior to the date of techno-commercial bid opening. For the purpose of qualification, the experience as at clause 1.1(a), (b), & (c) above in separate plants is also permissible.
- (iii) For reference fly ash handling systems, the design capacity of conveying from ESPs to wetting units/buffer hoppers/intermediate Silos and of transportation from buffer hoppers/ intermediate Silos to storage silos will be specified in its contract documents.

OR

1.2 ROUTE- II

The Bidder who has executed ash handling systems but does not meet the requirements under clause 1.1 in part or in full can also participate provided it has executed at least the following system of ash handling plant involving design, engineering, manufacturing/got manufactured, supply, erection/supervised erection and commissioned/supervised commissioning:

Fly Ash Handling System for conveying fly ash from ESPs in dry form involving pneumatic conveying systems of vacuum or pressure type.

The system mentioned above should have been in successful operation in at least one (1) plant for one (1) year prior to the date of techno-commercial bid opening and should have been installed for Coal / Lignite fired boiler units generating not less than 40 TPH of ash per boiler.

And

collaborates/ associates with party(ies) who meet(s) either the total requirement or the balance part under 1.1 (a), (b), & (c) above, which the Bidder itself is not able to meet.

In such a case, the Bidder shall be required to furnish a Letter of support from Collaborator/ Associates for successful performance of the relevant system valid for a period of seven (7) years or up to the end of defect liability period of the contract whichever is later, as per the format enclosed with the bidding documents. The Letter of support shall be submitted along with the techno-commercial bid, failing which the Bidder shall be disqualified, and its bid shall be rejected.

Note to Clause no. 1.2:

For design and engineering activity referred to under paras of clause 1.2 should have been carried out by either Bidder or through design agency/agencies having experience for reference systems. In such a case, the Bidder shall be required to furnish a Letter of support from design agency for successful performance of the relevant system valid for a period of seven (7) years or up to the end of defect liability period of the contract whichever is later. The Letter of support shall be submitted along with the techno-commercial bid, failing which the Bidder shall be disqualified, and its bid shall be rejected. In case of Collaborator(s)/associate(s) meeting the balance part of total requirement under clause 1.1, the activity of design and engineering for the reference systems should have been carried out by collaborator(s)/associate(s).

OR

1.3 ROUTE- III (EPC Organization in collaboration with QAHPM)

EPC organization in Collaboration with QAHPM (Qualified Ash Handling Plant Manufacturer):

- a) The Bidder should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 10 years, industrial projects on EPC basis (with or without civil works) in the area of Power/ Steel/ Oil & Gas/Petro-chemical/ Fertilizer/ Flue Gas Desulphurization and/or any other process industry with the total value of such projects being ₹ 500 Crore or more. At least, one of such projects should have a contract value of ₹ 200 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 opening.
- b) The Bidder should also have a valid ongoing collaboration and technology transfer/Licensing agreement with a QAHPM meeting requirements of clause 1.1 on its own, valid for a period of seven (7) years or up to the end of defect liability period of the contract whichever is later. In such a case, Bidder can either source the AHP System

from such manufacturer or got manufactured the AHP System as per the design and manufacturing drawings released by such QAHPM.

- c) The Bidder shall be required to furnish a Letter of support from Collaborator/Licenser/Technology provider for successful performance of the AHP system valid for a period of seven (7) years or up to the end of defect liability period of the contract whichever is later, as per the format enclosed with the bidding documents. The Letter of support shall be submitted along with the techno-commercial bid, failing which the Bidder shall be disqualified, and its bid shall be rejected.

Notes for Clause 1.3

- (i) QAHPM (Qualified Ash Handling Plant Manufacturer) means a single manufacturer meeting requirement stipulated at clause 1.1 (a), (b), & (c).
- (ii) The Technology transfer/Licensing agreement between the Bidder & QAHPM shall necessarily cover transfer/licensing of technological know-how for the AHP system in the form of transfer/licensing of design dossier, design software's, drawings and documentation and quality system manuals.
- (iii) The value of executed works shall be given a simple weightage to bring them at the current price level by adding 5% for each completed year (total number of days/365) after the end date of completion/execution/commissioning of the reference work, till the last day of month previous to one in which NIT has been invited. The specified value of executed works is excluding any taxes and duties.
- (iv) The word "executed" means:
 - a. In the case of Project(s), the project(s) should have been commissioned/ completed, even if the contract has been started earlier and / or is not completed / closed.
 - b. In case of Contract(s), the scope of work under the contract(s) should have been commissioned/completed, even if the contract has been started earlier and / or is not closed.

2.0 Financial Criteria:

2.1.0 Financial Criteria for the 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 opening, should not be less than **₹ 220 Crore (Indian Rupees Two Hundred Twenty 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 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 The Net Worth of the Bidder as on the last day of the preceding financial year should not be less than 100% (hundred percent) of its paid-up share capital. In case the Bidder does not satisfy 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 a 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 a 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 stand-alone 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:

- (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 in the bid documents, stating that the unaudited unconsolidated financial statements form part of the consolidated annual financial statements of the Holding Company.

In case 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 practicing Chartered Accountant certifying its financial parameters, the audited results of the 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 bid 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.

2.2.0 Financial Criteria for Collaborator/Associate/QAHPM

- 2.2.1 For Bidder seeking qualification through Clause No 1.2, the average annual turnover of the Collaborator/Associate, in the preceding three (3) financial years as on the date of Techno-Commercial bid opening, should not be less than amount specified below

- i) ₹ 22 Crore only (Indian Rupees Twenty-Two Crore only) or in equivalent foreign currency for Collaborator/Associate for Pneumatic Fly Ash Handling System for Conveying (meeting requirement of Clause 1.1 (a) above.
- ii) ₹ 22 Crore only (Indian Rupees Twenty-Two Crore only) or in equivalent foreign currency for Collaborator/Associate for Pneumatic Fly ash Transportation System (meeting requirement of Clause 1.1(b) above.
- iii) ₹ 22 Crore only (Indian Rupees Twenty-Two Crore only) or in equivalent foreign currency for Collaborator/Associate for High Concentration Slurry disposal system (meeting requirement of Clause 1.1 (c) above.

In case Bidder collaborates/associates with a single firm for more than one system as above then the average annual turnover of such firm shall not be less than the sum of the turnovers specified above for the systems for which the Bidder is collaborating/associating with the firm.

- 2.2.2 For Bidder seeking qualification through Clause No 1.3, the average annual turnover of QAHPM, in the preceding three (3) financial years as on the date of Techno-Commercial bid opening, should not be less than **₹ 22 Crore only (Indian Rupees Twenty-Two Crore only) or in equivalent foreign currency.**

2.2.3 Applicable for Clause 2.2.1 and Clause 2.2.2:

- a) In case a Collaborator/Associate 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 Collaborator/Associate 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 Collaborator/Associate in case of award.
- b) The Net Worth of the Collaborator/Associate as on the last day of the preceding financial year should not be less than 100% (hundred percent) of its paid-up share capital. In case the Collaborator/Associate does not satisfy 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 Collaborator/Associate 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 capital.

Net Worth in a 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.

- c) In case the Collaborator/Associate is not able to furnish its audited financial statements on stand-alone entity basis, the unaudited unconsolidated financial statements of the Collaborator/Associate can be considered acceptable provided the Collaborator/Associate further furnishes the following documents for substantiation of its qualification:
 - (i) Copies of the unaudited unconsolidated financial statements of the Collaborator/Associate 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 in the bid documents, stating that the unaudited unconsolidated financial statements form part of the consolidated annual financial statements of the Holding Company.

In case 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, Collaborator/Associate is not able to submit the Certificate from practicing Chartered Accountant certifying its financial parameters, the audited results of the 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 bid 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:

- i) Net worth means the sum 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 2013.
- 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.