

**NTPC LIMITED**  
**(A Government of India Enterprise)**

**CORPORATE CONTRACTS, NOIDA**

**INVITATION FOR BIDS (IFB)**

**FOR**

**MAKE UP WATER SYSTEM AND ASH DISPOSAL CUM AWRS PACKAGE  
FOR  
DARLIPALI SUPER THERMAL POWER PROJECT  
STAGE-II (1X800 MW)**

**BID DOCUMENT NO.: CS-9551-132-9**

**LOCATED AT**

**DISTRICT SUNDARGARH, STATE OF ODISHA, INDIA,**

**(Domestic Competitive Bidding)**

**IFB No.: CS-9551-132-9**

**Date: 24.01.2026**

**Tender ID: 2026\_NTPC\_104236\_1**

**A.** NTPC invites on-line bids for **Makeup Water System and Ash Disposal Cum AWRS Package for Darlipali STPP Stage-II (1X800 MW)**, at NTPC e-procurement portal of NIC at website- <https://eprocurementpc.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 subject Makeup Water System and Ash Disposal Cum AWRS Package for Darlipali STPP Stage-II (1X800 MW), is as follows:

The scope of Make-up Water System and Ash Disposal cum AWRS Package includes Design, Engineering, Supply, Construction, Erection, and Testing & Commissioning of complete Make-up water pumping system & MuW pipelines, Ash Disposal & Ash water recirculation systems, HT & LT Switchgear including all Civil, Electrical and Control & Instrumentation works etc. as specified in technical specifications.

Salient Features of major system & equipment are as follows:

**I) MAKE- UP WATER SYSTEM:**

- 1) **Make-up Water Pumping System** comprising of 2x2950 m<sup>3</sup>/hr capacity vertical turbine, wet pit type MUW pumps along with electrical motor drives. The pumps are proposed to be installed in the existing Intake well MuW pump house. The pumping system shall be complete with all accessories like REJ, motorised discharge & recirculation BFBVs, NRV at pump discharge, forced water lubrication system consisting of two numbers (2 X 100%) of horizontal centrifugal type lubricating water pumps & its drives, filter (2 X 100%), Overhead tank, etc.
- 2) **Make-up Water Pipeline** from Make-up water pump house to Raw water reservoir inside

plant comprising of either

- a. 1x100% capacity (1000 mm dia., 12 mm thick, approx. 37 km route length) mild steel pipes with 3LPE (3-layer polyethylene) coating, Permanent Impressed Current Type Cathodic protection system for makeup water pipelines including requisite temporary cathodic protection system + 1x100% capacity (900 mm dia, approx. 2 km route length) DI Pipes K9 class or
- b. 1x100% capacity (900 mm dia., approx. 35 km route length) DI pipes K9 class + 1x100% capacity (1000 mm dia, 12 mm thick, approx. 4 km route length) MS pipe with wrapping coating, Transient Analysis with 60 (minimum) Nos ARVs, one (1) no. electrical motor operated butterfly valve at MUW pump house end and one (1) no. manual butterfly valve at reservoir (Stage-II) end in makeup water pipeline, etc.

## **II) ASH DISPOSAL & AWRS SYSTEM:**

- 1) Supply, erection and commissioning of ERW/SAW pipes of grade Fe-410 as per API-5L Gr. B/IS:3589 pipelines of 9.5 mm thickness, 500NB length 21000m, and Cast Basalt pipes and bends for BA slurry Pipe 20 mm thick cast basalt lined MS fitting ( MS shell of 6 mm thickness, 500NB) of length 2100m for Bottom ash (BA) in lean slurry form and 200NB Seamless carbon steel pipes for HCSD as per Technical Specification of length 18000m for Fly ash(FA) in high concentration slurry disposal from terminal point to new dyke along with Garlanding and routing of ash pipeline inside the disposal area, extensions into the dyke at number of discharge points complete with basalt lined pipe bends, structural steel supports etc. Routing of Bottom ash and fly ash lines shall be done separately into their respective lagoons.
- 2) Design, Engineering, Supply, erection and commissioning of Ash Water Recirculation System which consists of 2X600m<sup>3</sup>/hr capacity pumping system located near ash dyke area and which includes connection from terminal point at discharge of overflow lagoon, 8.8 mm thick MS piping of 350 NB diameter and length 4000m as per Technical Specification (from Pump House to terminal point) including valves, fittings, Supports, Pedestals, structural etc, EOT Crane for AWRS Pump House.
- 3) Design, Engineering, Supply, erection and commissioning of dust suppression system for the proposed BA and FA lagoon consisting of 2x200m<sup>3</sup>/hr capacity pumps, 7.1 mm thick MS piping of 200 NB diameter of length 5000m, 7.1 mm thick MS piping of 100 NB diameter of length 2000m, 7.1 mm thick MS piping of 80 NB diameter of length 2500m including valves, fittings, Supports etc
- 4) Design, Engineering, Supply, erection and commissioning of two numbers Seepage water recirculation system at different location of new dyke each consisting of 2x100m<sup>3</sup>/hr capacity pumps and piping including valves, fittings, supports etc

## **III) ELECTRICAL WORKS:**

All associated Electrical drives & other Electrical works for the package as below.

- 1) Transformers
- 2) HT & LT Switchgears
- 3) Bus ducts (If applicable)
- 4) HT & LT Power cables and control cables
- 5) Cabling, Earthing & Lightning protection
- 6) Lighting
- 7) Batteries and Battery chargers.
- 8) 11KV OVERHEAD Lines

## **IV) C&I WORKS:**

C&I scope includes Design, Engineering, Manufacture, Supply, Erection, Testing & Commissioning works for C&I system of Make-up water pumps/ system and AWRS. This shall be consisting of following:

- 1) Measuring instruments, Motorized actuators, Instrumentation cables & PCP and

- associated items for Make Up Water Pumping system and AWRS.
- 2) Make Up pumps /system and AWRS controls and Monitoring shall be from Employer's DDCMIS. However, interconnection of signals from these systems upto Employer's DDCMIS panel shall be in the scope of Contractor. Also, Local control panels for seepage pumps shall be in the scope of Contractor.
  - 3) Airconditioned room for AWRS DDCMIS/Control room. Ventilated C&I battery room in AWRS area.
  - 4) FDPS related C&I

**V) Associated Civil Works for completion of system including:**

- 1) Laying of pipes, crossings across nallas (Basundhara, Lilari, Telanpalli etc), railway lines (3 no), NH/Pucca roads/village road crossing, drains etc. by constructing bridges, culverts, pedestals, underground crossing with concrete encasement etc.
- 2) Modification required in existing Stage-I Make-Up Water Pump House for installation of Stage-II MuW Pumps, pedestals/thrust blocks associated with valves and discharge pipeline, dismantling of existing facilities as required for completion of Stage-II System etc.
- 3) Modification/alteration/addition works required in existing Stage-I MuW Switchgear & Control Room building for installation of Stage-II Panels/Equipments etc.
- 4) Design and construction of supporting pedestals for Ash slurry pipes & Ash water recovery pipes, Ash water recirculation pump house, 02 nos of Seepage pump house, Energy dissipating structure, Disaster management room (Single storey building of size 15m x 7.5m), Switchgear/MCC room as applicable.

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

- C. NTPC intends to finance the aforesaid Package through a mix of debt and equity.
- 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:

<b>Issue of IFB</b>	<b>24.01.2026</b>
Bidding Document No	CS-9551-132-9
Cost of Bidding Document	NIL
Documents Download Date and Time	<b>From 24.01.2026 onwards</b>
Last date for receipt of queries	<b>12.02.2026</b>
Pre Bid Conference Date	<b>12.02.2026 from 1100 Hrs (IST)</b>
Bid (both Techno-Commercial and Price) submission end date & time	<b>Up to 1300 Hrs (IST) on 24.02.2026</b>
Date & Time for opening of Envelope-I (Techno-Commercial bid)	<b>25.02.2026 at 1530 Hrs (IST)</b>
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 5,00,00,000/- (Indian Rupees Five 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 AS E-BG/ THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE COPY OF E-BG/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.

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.

- J. Transfer of Bidding Documents by one intending Bidder to another is not permissible.
- K. Downloading/Issuance of Bidding Documents and /or submission of Bid shall not construe that such Bidder is considered to be qualified.
- L. 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.

**M. Address for Communication:**

DGM (CS) / AGM(CS)  
NTPC Limited,  
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Websites: <https://eprocurementpc.nic.in/> or [www.ntpctender.ntpc.co.in](http://www.ntpctender.ntpc.co.in) or [www.ntpc.co.in](http://www.ntpc.co.in)

**N. Registered Office**

NTPC Limited  
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New Delhi – 110003  
Corporate Identification Number: L40101DL1975GOI007966,  
Website: [www.ntpc.co.in](http://www.ntpc.co.in)

**DARLIPALI STPP STAGE-II (1 X800 MW)****QUALIFYING REQUIREMENTS****(MAKE-UP WATER SYSTEM & ASH DISPOSAL CUM AWRS PACKAGE)**

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

**1.0 Technical Criteria:**

The bidder should have supplied, engineered / got engineered, erected / got erected and commissioned / supervised commissioning of at least one (1) cross-country piping system of minimum 10 Km of single route length, of Steel pipes, of diameter 500 mm NB / DN or above, which should have been in successful operation for at least one (1) year prior to the date of Techno-Commercial bid opening.

Note:

1. Cross-country shall refer to routing across open terrain outside Owner's land, involving one or more crossings like roads/rail lines/river/canal etc.
2. Single route length shall refer to the length of a single, continuous section of pipeline (that may include pipe fittings & valves).

**2.0 Financial Criteria:**

- 2.1 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 **₹88 Crores (Rupees Eighty-eight Crores 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.

- 2.2 Net worth should not be less than 100% (hundred percent) of the bidder's paid up share capital as on the last day of the preceding financial year. 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 companies 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:

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

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.

- 2.3 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 furnishes the following further documents on 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 bidding documents, stating that the unaudited unconsolidated financial statements form part of the Consolidated Annual Report of the 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 :**

- (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 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.