



**TECHNICAL PRE-QUALIFICATION REQUIREMENT
FOR
2x660 MW SUPER CRITICAL THERMAL POWER PROJECT,
HTPS KORBA WEST OF CSPGCL
(WATER TREATMENT PACKAGES)**

PE-PQ-530-404-W001

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The Bidder (prime bidder, in case of consortium bid) should necessarily meet pre-qualification requirement for at-least one of the following packages stipulated.

- (i) Pre-treatment Plant (PTP) defined under sl. no. 1.1.
- (ii) Demineralization Plant (DM Plant) - Ion Exchange or Reverse Osmosis based, defined under sl. no. 1.2.
- (iii) Condensate Polishing Plant (CPU) defined under sl. no. 1.3.

1	TECHNICAL PRE-QUALIFICATION REQUIREMENT
	Pre-Treatment Plant (PTP)
1.1	The Bidder should have designed, supplied, erected/supervised erection and commissioned/supervised commissioning at least one (1) number water/waste water treatment plant having capacity of not less than 1000 Cu.m/hr, comprising of clarifiers/tube settlers/thickeners or a combination thereof including civil works. The plant should have been in successful operation for at least one (1) year as on the date of 03.04.2025 .
	Demineralization Plant (DM Plant)- (ION EXCHANGE BASED/ REVERSE OSMOSIS BASED)
	Ion Exchange Demineralization Plant
1.2	The Bidder should have designed, supplied, erected and commissioned at least one (1) number of ion exchange based demineralizing plant, consisting of at least one (1) stream of minimum 60 cum./hr capacity, capable of producing outlet water quality of silica and conductivity not more than 0.02 ppm as SiO ₂ and 0.2 micromho/cm respectively, which should have been in successful operation for at least one (1) year as on the date of 03.04.2025 .
	OR
	Reverse Osmosis Plant
	In case the Bidder offers reverse osmosis with mixed bed combination plant for DM water, the Bidder should have designed, supplied, erected and commissioned / supervised commissioning of one (1) number Reverse Osmosis (RO) consisting of at least one (1) stream of minimum 60 cum./hr capacity, capable of producing outlet water quality of silica and conductivity not more than 0.02 ppm as SiO ₂ and 0.2 micromho/cm respectively.
	The above RO plant (s) should be having inlet feed Water (fresh water) with TDS ≥ 500 ppm and capable of producing permeate water quality with TDS not more than 100 ppm OR having inlet feed as sea water and capable of producing permeate water quality with TDS not more than 500 ppm. The plant (s) should have been in successful operation for at least one (1) year as on the date of 03.04.2025 .
	Condensate Polishing Plant (CPU)
1.3	a. The Bidder should have designed, supplied, erected and commissioned at least one (1) Condensate Polishing Plant of mixed bed, deep bed type consisting of service vessel of minimum capacity of 500 M3/hr. The plant shall have external regeneration system, incorporating the same resin separation and regeneration process as proposed by the Bidder for this package. The above plant should have been in successful operation for a period of at least one (1) year as on the date of 03.04.2025 .



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OR

- b. The Bidder who do not meet the qualification requirements stipulated at 1.3a. above, may also participate provided the Bidder is a Contractor in water treatment plant and has executed at least one (1) number ion exchange based demineralising plant of minimum capacity of 60 M3/hr consisting of maximum two (2) streams and associates for this bid with an Associate who in turn fully meets the requirements stipulated at 1.3a. above.

In such a case, the Bidder shall be required to furnish a letter of technical support from Collaborator / Associate for successful performance of Condensate Polishing Plant, as per the format enclosed.

Civil

- 1.4 Bidder should have executed any Civil or structural works of Thermal / Nuclear power plant / Steel plant, within the preceding seven (7) years reckoned as on the date of **03.04.2025**.

Notes:

A Documents required from bidder to establish the PQ requirements for:

- a. Copy of minimum one (1) performance certificate (in English) from end user, specifying that the package(s) is/ are running successfully for at least one (1) year as on **03.04.2025** along with copy of related Purchase Order (PO)/ Letter of Intent (LOI)/ Letter of award (LOA) or Work order (WO)
- b. Bidder shall submit supporting documents to substantiate technical parameters specified in PQR, if the same is not mentioned in performance certificate/purchase order. In order to meet the PQR, the bidder shall provide all necessary data such as type, design, make, capacity, duty conditions, date of commissioning/ operation etc.
- c. Bidder to submit supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
- d. Consideration of offer shall be subjected to end customer approval of bidder.
- e. After satisfactory fulfilment of all stipulated criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.
- f. Any other document which is not mentioned, however required by BHEL & end customer during bidder or sub vendor approval, shall be provided by bidder.

Notwithstanding anything stated above, BHEL/ end customer reserves the right to assess the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such.

B Note for notarised undertaking are as under:

Bidder shall submit a valid and duly notarised undertaking as per attached format (as applicable), along with bid, stating that bidder would outsource package(s) for which bidder does not meet the PQ requirements, to a supplier(s) / (sub vendor(s)) who meets the PQ requirements stipulated at Sl. No. 1 above.

Bidder to note that apart from DM Plant, PT Pant, CPU and Civil, there are other package(s) / equipment(s) / systems / items/ services, also where PQ requirements/ provenness are mentioned in the tender specification. For these package(s) / equipment(s) / system(s) / item(s) / service(s), the successful bidder shall submit the required documents in line with tender requirement for BHEL /



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customer approval and accordingly the successful bidder shall out-source / procure the package(s) / equipment(s) / system(s) / item(s) /service(s) from these approved supplier(s) / vendor(s) / agencies only.

- C**
1. In case of consortium bidding, the prime bidder must meet at least one of the PQ criteria as specified from 1.1 to 1.3.
 2. Prime Bidder shall be responsible for the overall execution of the Contract.
 3. The consortium partner can meet any of the PQ criteria from 1.1 to 1.4, except the criteria met by the prime bidder.
 4. Consortium shall not have more than two partners (i.e. prime bidder + one consortium partner). In case of consortium mode of the bidding, the consortium must declare the Prime bidder and consortium partner, by identifying their roles distinctively.
 5. The consortium partners are required to jointly enter into a legally enforceable Consortium Agreement (*as per Consortium Agreement format enclosed*) and furnish the same along with the Techno-commercial Bid. Submission of Consortium Agreement is a mandatory requirement and non-submission shall lead to rejection of the bid.
 6. A bidder shall participate in only one capacity – either as a sole bidder, or as a Prime bidder or as a partner of consortium. In case any bidder participates in multiple capacity in different bids, all such bids are liable for rejection.
 7. Each of the Consortium partners shall be responsible and liable to the end Customer and BHEL to perform all contractual obligations related to their respective scope of works (limited joint and severally responsible), valid for a period of seven (7) years from the date of formation of the Consortium or up to the end of defect liability period of the contract whichever is later, as per the format enclosed. However, consortium partners (prime bidder & consortium partner) shall be jointly & severally responsible and liable to the end Customer and BHEL to perform all contractual obligations.
 8. In case Prime Bidder withdraws or insolvency / liquidation / winding up proceedings have been initiated / admitted against the Prime Bidder, BHEL reserves the right to cancel, terminate or short close the contract or take any other action to safeguard BHEL's interest in the Project / Contract. This action will be without prejudice to any other action that BHEL can take under Law and the Contract to safeguard interests of BHEL.
 9. In case the Consortium partner backs out, another consortium partner meeting the PQ criteria stipulated at C3 above and financial PQ criteria defined elsewhere, shall be engaged by Prime Bidder and if not, the respective work will be withdrawn and executed as per the provisions of the contract.
 10. The Consortium partner shall submit SD equivalent to 1% of the total contract value in addition to the SD to be submitted by the Prime Bidder for the total contract value.
 11. In case the Consortium partner or partners back out, their SDs shall be encashed by BHEL and BHEL shall take necessary action as per extant guidelines. In such a case, other consortium partner or partners meeting the PQR have to be engaged by the Prime Bidder and the new consortium partner or partners shall submit fresh SDs as applicable.
 12. In case of consortium, prime bidder, lead partner, lead bidder, leader are interchangeable terms. Similarly, consortium partner, consortium bidder, associate are interchangeable terms.

FORMAT (UNDERTAKING)

(Valid and duly notarized on appropriate value stamp paper)

M/s....., having its Registered office at [Complete Address], a company duly organized and existing under the laws of [Country/Act], thereafter termed as “Bidder” having been duly sworn in in accordance with the law, do hereby confirms the following:

1. That undertaking is given in connection with [Tender Number/ 2x660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS KORBA WEST OF CSPGCL] for the scope defined as per technical specification (PE-TS-530-404-W001) of water treatment packages as part of the bidding process.
2. The bidder hereby confirms that PQ requirements stipulated at sl. no. 1 of the document no. (PE-PQ-530-404-W001) for packages(s) PTP and/ or DMP and/ or CPU is met by the bidder. For remaining package(s) listed below for which bidder does not meet Technical PQR/ Provenness stipulated in Technical PQR or as defined/ described in technical specification, the successful bidder shall outsource these package(s) to the supplier (s) (sub-vendors) who meet the PQ requirements of respective packages(s)/ systems/ equipment/ items/Civil works/ services.

<u>Sl. No.</u>	<u>Package/ Service/ Equipment/ Item/ System Name</u>	<u>Bidder meeting PQR/ Provenness</u>	<u>Execution by</u>
1.	PT Plant	Yes / No	Bidder
2.	DM Plant	Yes / No	Bidder
3.	CPU	Yes / No	Bidder
4.	Civil works	Yes / No	Bidder
5.	CW Chemical Treatment	Yes / No	Bidder
6.	Chlorine Di-Oxide Dosing System	Yes / No	Bidder
7.	Battery charger	Yes / No	Bidder
8.	LT Switchgear	Yes / No	Bidder
9.	Numerical relays & networking	Yes / No	Bidder
10.	DC Batteries	Yes / No	Bidder
11.	HT Power cables	Yes / No	Bidder
12.	COLTCS	Yes / No	Bidder
13.	Auxiliary oil Filled Transformer	Yes / No	Bidder
14.	Self-Cleaning Strainer	Yes / No	Bidder
15.	Plate heat exchanger	Yes / No	Bidder
16.	Misc. pumps (horizontal)	Yes / No	Bidder
17.	Sump Pump	Yes / No	Bidder
18.	SWAS	Yes / No	Bidder

[strike off whichever is not applicable based on bidder's credential].

3. That successful bidder shall submit the supporting documents for establishing the qualifying requirement for approval of the sub vendor(s) as per above package list (Including Civil works), to BHEL/Customer. Subsequent to approval of the proposed sub vendor(s), the successful bidder will place the order on approved sub vendor(s).
4. That successful bidder shall outsource the package(s) to respective approved sub vendor(s). Successful bidder and its sub-vendor (s) are jointly and severally liable to the BHEL/ Customer to perform contractual obligations including the Design, supply, erection & commissioning, trial run, performance guarantees and final handing over to end customer in flawless condition of the respective packages(s)/ systems/ equipment/ items/ civil works/ services as applicable.
5. That bidder shall not change the sub vendor(s) once package is outsourced to approved sub vendor(s) till contract closure without written permission of BHEL.

FORMAT (UNDERTAKING) – for Consortium bidding

(Valid and duly notarized on appropriate value stamp paper)

M/s, having its Registered office at [Complete Address], a company duly organized and existing under the laws of [Country/Act], thereafter termed as “**Prime Bidder**” having major share of the work defined in the tender specification, and M/s, having its Registered office at [Complete Address], a company duly organized and existing under the laws of [Country/Act], thereafter termed as “**Consortium Partner**” having been duly sworn in in accordance with the law, do hereby confirm the following:

1. That undertaking is given in connection with [Tender Number/ 2x660 MW SUPER CRITICAL THERMAL POWER PROJECT, HTPS KORBA WEST OF CSPGCL] for the scope defined as per technical specification (PE-TS-530-404-W001) of water treatment packages as part of the bidding process.
2. That PQ requirements stipulated at sl. no. 1 of the document no. (PE-PQ-530-404-W001) for the package(s) PTP and/ or DMP and/ or CPU is met by the **Prime Bidder**. The **Consortium Partner** is meeting any of the PQ criteria from 1.1 to 1.4 of the document no. (PE-PQ-530-404-W001), except the criteria met by the Prime Bidder.
3. For remaining package(s) listed below for which bidder does not meet Technical PQR/ Provenness stipulated in Technical PQR or as defined/ described in technical specification, the successful bidder shall outsource these package(s) to the supplier (s) (sub-vendors) who meet the PQ requirements of respective packages(s)/ systems/ equipment/ items/Civil works/ services.

<u>Sl. No.</u>	<u>Package/ Service/ Equipment/ Item/ System Name</u>	<u>Prime Bidder meeting PQR/ Provenness</u>	<u>Consortium Partner meeting PQR/ Provenness</u>	<u>Execution by</u>
1.	PT Plant	Yes / No	Yes / No	Prime Bidder /Consortium Partner
2.	DM Plant	Yes / No	Yes / No	Prime Bidder /Consortium Partner
3.	CPU	Yes / No	Yes / No	Prime Bidder /Consortium Partner
4.	Civil works	Yes / No	Yes / No	Prime Bidder /Consortium Partner
5.	CW Chemical Treatment	Yes / No	Yes / No	Prime Bidder /Consortium Partner
6.	Chlorine Di-Oxide Dosing System	Yes / No	Yes / No	Prime Bidder /Consortium Partner
7.	Battery charger	Yes / No	Yes / No	Prime Bidder /Consortium Partner
8.	LT Switchgear	Yes / No	Yes / No	Prime Bidder /Consortium Partner
9.	Numerical relays & networking	Yes / No	Yes / No	Prime Bidder /Consortium Partner
10.	DC Batteries	Yes / No	Yes / No	Prime Bidder /Consortium Partner
11.	HT Power cables	Yes / No	Yes / No	Prime Bidder /Consortium Partner
12.	COLTCS	Yes / No	Yes / No	Prime Bidder /Consortium Partner
13.	Auxiliary oil Filled Transformer	Yes / No	Yes / No	Prime Bidder /Consortium Partner
14.	Self-Cleaning Strainer	Yes / No	Yes / No	Prime Bidder /Consortium Partner
15.	Plate heat exchanger	Yes / No	Yes / No	Prime Bidder /Consortium Partner
16.	Misc. pumps (horizontal)	Yes / No	Yes / No	Prime Bidder /Consortium Partner
17.	Sump Pump	Yes / No	Yes / No	Prime Bidder /Consortium Partner
18.	SWAS	Yes / No	Yes / No	Prime Bidder /Consortium Partner

[strike off whichever is not applicable based on bidder’s credential].

4. That the supporting documents for establishing the qualifying requirement for approval of the sub vendor(s) as per above package list (including Civil works), shall be submitted to BHEL/Customer. In the event of award of the contract, the order on approved sub vendor(s) shall be placed subsequent to approval of the proposed sub vendor(s).
5. That the package(s) shall be outsourced to respective approved sub vendor(s). Successful consortium and its sub-vendor (s) are jointly and severally liable to the BHEL/ Customer to perform contractual obligations including the Design, supply, erection & commissioning, trial run, performance guarantees and final handing over to end customer in flawless condition of the respective packages(s)/ systems/ equipment/ items/ civil works/ services as applicable.
6. That bidder shall not change the sub vendor(s) once package is outsourced to approved sub vendor(s) till contract closure without written permission of BHEL.

FORMAT FOR FILLING THE DETAILS OF PROVENNESS

**LETTER OF SUPPORT FOR SATISFACTORY PERFORMANCE OF
(EQUIPMENT/SYSTEM NAME) FOR
SUPER CRITICAL THERMAL POWER PROJECT
HTPS, KORBA WEST (2X660 MW) , EPC PACKAGE**

TO

[EMPLOYER'S NAME & ADDRESS]

Sub: Letter of Technical Support submitted From (name of the Associate*/ Collaborator*/ Technology provider* / Licensor* / Holding Company*) undertaking the responsibility for satisfactory performance of(Name of the equipment/system*).

Dear Sirs,

1. In accordance with the Award of the Contract by (Name of the Contractor) to M/s. (Name of the sub-vendor), we, the aforesaid Associate*/Collaborator*/Technology provider*/Licensor*/Holding Company, (M/s) shall be fully responsible for the satisfactory performance of the(Name of the equipment/system*).
2. Further, the manner of achieving the objective set forth in point 1 above shall be as follows
For (Name of the equipment/system*):
 - (a) We shall be fully responsible for design, engineering & commissioning and extending all necessary support for putting in to satisfactory operation and carrying out the Guarantee Tests for(Name of the equipment/system*) to the satisfaction of the Employer.
 - (b) We shall depute technical experts to Bidder's/sub-vendor's works for supervision during manufacturing, assembly, inspection, as and when required by Employer. We shall participate in site erection, commissioning and final testing (as and when necessary) of the.....(Name of the equipment/system*).
 - (c) We shall participate in Technical Co-ordination meetings (TCMs) from time to time, as and when required by Employer.
 - (d) We shall promptly carry out all the corrective measures and shall promptly provide corrected design and shall undertake replacements, rectifications or modifications to the equipment/system* as and when required by Employer in case the equipment/system* fails to demonstrate successful performance as per contract at site.
3. We, the Associate*/Collaborator*/Technology provider*/Licensor*/Holding company* do hereby undertake and confirm that this Letter of Technical Support shall be valid for a period of seven (7) years or up to the end of defect liability period of the contract, whichever is later.

Signature of the Authorised Representative:.....

For M/s

(Associate*/Collaborator*/Technology provider*/Licensor*/Holding company)

Name

Designation

Date:.....

Common Seal of the Company

***: Strike off whichever is not applicable.**

Signature of authorized signatory.....

CONSORTIUM AGREEMENT

(To be executed on a Non-Judicial Stamp Paper of the requisite value as per Stamp Duty prevalent in the respective State)

THIS AGREEMENT is made and executed on this _____ day of _____, by and between (1)

M/s _____, (The First Party, i.e, the Bidder) a company incorporated under the Company's Act 1956, having its registered office at _____ (herein after called the "Bidder", which expression shall include its' successors, administrators, executors and permitted assigns) and (2) M/s _____, (The Second Party, i.e, the associates), a company incorporated under the Company's Act 1956, having its registered office at _____ (herein after called the " Associates", which expression shall include its' successors, administrators, executors and permitted assigns).

WHEAEAS the Owner/ Purchaser, Bharat Heavy Electricals Ltd, a Government of India Undertaking, proposes to issue / issued an NIT (herein after referred to as the said NIT) inviting bids from the individual

Bidders for undertaking the work of _____, at _____ (herein after referred to as the said works).

WHEREAS the said NIT enables submission of a bid by a Consortium subject to fulfillment of the stipulations specified in the said NIT.

AND WHEREAS M/s _____ (The First Party, i.e, the Bidder) will submit its proposal in response to the aforesaid invitation to bid by the Owner for

_____ as detailed in the Bid doc. no. <

TENDER

REF----->

AND WHEREAS M/s _____ (The First Party, i.e the Bidder) itself is meeting all the qualifying requirements except the qualifying requirements of

_____ (as detailed in the NIT) and in order to fully meet the qualifying requirements of NIT, this tie-up agreement is being entered into with M/s _____ (The Second Party, the Associates) , who fully meet the balance part of the said works (_____).

WHEREAS the First Party and the Second Party are contractors engaged in the business of carrying out various items of works. WHEREAS the two parties have agreed to constitute themselves into a consortium for the purpose of carrying out the said works, and that the consortium will be continued till the completion of the works in all respects.

WHEREAS the parties have agreed to certain terms and conditions in this regard:

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. First and Second parties hereby constitute themselves into a Consortium for the purpose of bidding and undertaking the said works pursuant to the said NIT as hereinafter stated.
2. The First Party will be the leader (Lead Partner) and will be responsible for the entire works.

CONSORTIUM AGREEMENT

3. The First Party shall undertake the following part(s) of work detailed in the NIT namely

4. The Second Party shall undertake the following part(s) of work detailed in the said NIT namely

-
-
-
-
5. The parties hereby declare and confirm that each of them will fulfill the required minimum qualifying requirements as prescribed in the said NIT for the works agreed to be undertaken by them as stated here-in-above.
6. It is also agreed between the parties hereto that all of them shall be individually and severally responsible for the completion of the said works as per the schedule. Further, if the Employer/Owner sustains any loss or damage on account of any breach of the Contracts, we the, Consortium partners individually and severally undertake to promptly indemnify and pay such losses / damages caused to the Employer/Owner on its written demand without any demur, reservation, contest or protest in any manner whatsoever.
7. The parties hereby agree and undertake that they shall provide adequate finances, suitable
Tools, Plants, Tractors, Trailers, other transportation equipment, other Tools & Plants, Measuring & Monitoring Equipments (MMEs), Men and Machinery etc. for the proper and effective execution of the works to be undertaken by them as specified here-in-above.
8. It is agreed interse between the parties hereto that all the consequences liabilities etc., arising out of any default in the due execution of the said works shall be borne by the party in default, that is by party in whose area of works default has occurred, provided however, so far as M/s Bharat Heavy Electricals Limited is concerned, all the parties shall be liable jointly and severally.

IN WITNESS HEREOF the parties above named have signed this agreement on the day month and year first above written at _____(Place).

WITNESS

For

(FIRST PARTY)

1. NAME

2. OFFICIAL ADDRESS

For

WITNESS

1. NAME

(SECOND PARTY)

2. OFFICIAL ADDRESS