



**TECHNICAL PRE-QUALIFICATION REQUIREMENT
FOR
KODERMA THERMAL POWER PROJECT
PHASE-II (2 X 800 MW)
WATER TREATMENT PACKAGES**

PE-PQ-519-404-W001

DATE

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Bidder should necessarily meet pre-qualification requirement for at-least one of the following packages stipulated under Sl. No. 1 of "Annexure-1":

- (i) Pre-treatment Plant (PTP) defined under sl. no. 1.1 of "Annexure-1".
- (ii) Demineralization Plant (DM Plant) (Either Ion Exchange/ Reverse Osmosis Based) defined under sl. no. 1.2 of "Annexure-1".
- (iii) Condensate Polishing Plant (CPU) defined under sl. no. 1.3 of "Annexure-1".

Note

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 the date of 11.06.2024 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's [Damodar Valley Corporation (DVC)] 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 & DVC during bidder or sub vendor approval, shall be provided by bidder.

Notwithstanding anything stated above, BHEL/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-A, 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 at "Annexure-1".

Bidder to note that apart from DM plant, PT Pant and CPU, 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)/ systems/ items/ Services, the successful bidder shall submit the required documents in line with tender requirement for BHEL / customer approval and accordingly the successful bidder shall out-source/ procure the package(s)/ equipment(s)/ systems/ items /Services from these approved supplier(s)/ vendor(s)/ agencies only.



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SL. NO.	Annexure-1
1	TECHNICAL PRE-QUALIFICATION REQUIREMENT
1.1	Pre-treatment Plant (PTP) The Bidder should have designed, supplied, erected and commissioned at least one (1) number water/waste water treatment plant having capacity of not less than 1000 cum/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 11.06.2024 .
1.2	Demineralization Plant (DM Plant)- (ION EXCHANGE BASED/ REVERSE OSMOSIS BASED) Ion Exchange Demineralization Plant In case the Bidder offers ion exchange based demineralization Plant for DM water, 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 11.06.2024 . 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 11.06.2024 .
1.3	Condensate Polishing Plant (CPU) 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 M ³ /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 11.06.2024 . OR b. The Bidder should be a Contractor in water treatment plant and has executed at least one (1) number ion exchange based demineralising plant of minimum capacity of 60 Cu.m/hr consisting of maximum two (2) streams and associates for this bid with an Associate who in turn fully meets the requirements stipulated at 1.3 (a). 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.

FORMAT-A

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/ KODERMA THERMAL POWER PROJECT PHASE-II (2 X 800 MW)] for the scope defined as per technical specification (PE-TS-519-404-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 Annexure-1 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 Annexure-1 of 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	CW Chemical Treatment	Yes / No	Bidder
5	Chlorine Di-Oxide Dosing System	Yes / No	Bidder
6	HT motor	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	Auxiliary oil filled transformers & HT transformers	Yes / No	Bidder
13	COLTCS	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	Misc. pumps (vertical)	Yes / No	Bidder
18.	Civil works	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.

* The Bidder must meet the technical PQ requirement of at least one of the packages (PT, DM, or CPU) as stipulated/ outlined under Technical PQ Requirement (PE-PQ-519-404-W001 R0).

**LETTER OF SUPPORT FOR SATISFACTORY PERFORMANCE OF
CONDENSATE POLISHING UNIT FOR
KODERMA THERMAL POWER PROJECT
PHASE-II (2 X 800 MW)**

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.....