



**TECHNICAL PRE-QUALIFICATION REQUIREMENT
FOR
2x800MW LARA TPS
WATER TREATMENT PACKAGES**

PE-PQ-508-404-W001

DATE 02/08/2024

REV NO 00

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SL. NO.	DESCRIPTION
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 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 03.03.2023 .
1.2	Demineralization Plant (DM Plant)- (ION EXCHANGE BASED/ REVERSE OSMOSIS BASED) Ion Exchange based DM Plant The Bidder should have designed, supplied, erected and commissioned at least one (1) number of ion exchange based demineralizing plant, consisting of at least two (2) streams each 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 03.03.2023 . OR Reverse Osmosis Plant DM 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) Plant of minimum capacity (permeate flow) of 120 Cum/hr OR two (2) numbers RO Plants in separate contracts each of minimum capacity (permeate flow) of 60 Cum/hr OR three (3) numbers RO Plants in separate contracts each of minimum capacity (permeate flow) of 40 Cum/hr. The above RO plant (s) should be having inlet feed Water with TDS \geq 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 03.03.2023 .
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 03.03.2023 . OR b. The Bidder Should be a contractor in water treatment plant and has executed at least one (1) number ion exchange based demineralizing 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.
1.4	CW Chemical Treatment (CWTP) The Bidder should have executed contracts for cooling water treatment program of at least two (2) different cooling water systems each having a flow rate not less than 10,000 cum/hr operating in alkaline pH range and both the treatment programs should have been in successful operation for at least one (1) year as on the date of 03.03.2023 . These contracts should include supply of chemicals, operation and maintenance of the system by main contractor or their agency/sub-supplier. The Chemicals used in these programs should have been organic polymers/ organic phosphorous compounds/ organic phosphates-based chemicals.



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NOTES:

A	<p>Bidder should necessarily meet pre-qualification requirement for any one of the packages out of PTP, DM Plant & CPU.</p> <p>Out of following listed packages, for which bidder does not meet the PQ Requirements, bidder shall submit a valid and duly notarised undertaking as per attached format, along with bid, stating that bidder would outsource these package(s) to a supplier(s) (sub vendor(s)) who meets the PQ requirements stipulated at Sl. No. 1 above.</p> <ul style="list-style-type: none">(i) Pre-treatment Plant (PTP) defined at SL. NO. 1.1(ii) Demineralization Plant (Either Ion Exchange/ Reverse Osmosis Based) defined at SL. NO. 1.2(iii) Condensate Polishing Plant (CPU) SL. NO. 1.3(iv) CW Chemical Treatment (CWTP) SL. NO. 1.4 <p>All the PQR related supporting documents shall be provided by bidder in line with "NOTE-B" below for BHEL/ Customer approval. Any other document which is not mentioned under "NOTE B", however required by BHEL/customer during bidder or sub vendor approval, shall be provided by bidder.</p>
B	<p>For establishing above mentioned PQR requirement of package(s), the bidder has to submit the following supporting documents:</p> <ul style="list-style-type: none">a. For establishing PQ requirements for PTP, DM Plant, CPU, copy of minimum one (1) respective performance certificate and for CWTP package, copy of minimum two (2) performance certificates in English from end user specifying that the system is running successfully for at least one (1) year as on the date of 03.03.2023 along with copy of related Purchase Order (PO)/ Letter of Intent (LOI)/ Letter of award (LOA) or Work order (WO), in support of PQR clause mentioned at stipulated clauses above.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 (NTPC) approval of bidder.e. After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender. <p>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 assessment in overall interest of BHEL/Customer.</p>
C	<p>Bidder shall submit the supporting documents as per "NOTE B" for approval of the sub vendor(s), to BHEL/Customer within 15 days of placement of LOI. Subsequent to approval of the proposed sub vendor(s), the successful bidder will place the order on approved sub vendor(s) within seven (7) days.</p> <p>The approval of the sub vendor(s) shall be subject to BHEL/Customer acceptance without any cost & time implication to BHEL/customer.</p>
D	<p>Bidding through Joint Venture & Consortium are not allowed for the tender except for CPU wherein letter of technical support from collaborator/ associate has been allowed as per Sl. No. 1.3(b).</p>

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 accordance with the law, do hereby confirms the following:

1. That undertaking is given in connection with [Tender Number/ 2X800 MW Lara Thermal Power Project] for the scope defined as per technical specification of water treatment packages as part of the bidding process.
2. That bidder understands that the pre-qualification requirement stipulated in “TECHNICAL PRE-QUALIFICATION REQUIREMENT FOR 2X800 MW LARA TPS” document no PE-PQ-508-404-W001 are being met for PTP and/or DMP and/or CPU package(s).
3. That for remaining package(s) PTP and/or DMP and/or CPU and/or CWTP would be outsourced to a supplier(s) (sub vendor(s)) who meets the PQ requirements stipulated at SI No 1 of technical pre-qualification requirement for 2X800 MW Lara TPS. [strike off whichever package is not applicable based on bidder’s credential]
4. That successful bidder shall submit the supporting documents for approval of the sub vendor(s) declared at SI No 3 above, to BHEL/Customer within 15 days of placement of LOI. Subsequent to approval of the proposed sub vendor(s), the successful bidder will place the order on approved sub vendor(s) within seven (7) days.
5. That successful bidder shall outsource the package(s) to respective approved sub vendor(s). However, Successful bidder shall be solely liable to the BHEL/Customer to perform contractual obligations including the Design, supply, Erection & commissioning, trial run, performance guarantees and handing over of the respective package(s).
6. That bidder shall not change the sub vendor(s) once package is outsourced to approved sub vendor(s) till contract closer without written permission of BHEL.

LETTER OF TECHNICAL SUPPORT FOR CONDENSATE POLISHING UNIT

LETTER OF SUPPORT FOR SATISFACTORY PERFORMANCE OF (Name of Equipment) FOR LARA SUPER THERMAL POWER PROJECT, STAGE-II
(2X800 MW) EPC PACKAGE

TO:

[EMPLOYERS NAME & ADDRESS]

Sub: Letter of Support submitted From (name of the Associate /Collaborator*/Technology provider*/Licensor*/Qualified equipment manufacturer*) undertaking the responsibility for satisfactory performance of(name of the equipment).

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*/Qualified equipment manufacturer*, (M/s) shall be fully responsible for the satisfactory performance of the (Equipment name).
2. Further, the manner of achieving the objective set forth in point 1 above shall be as follows:
For (Equipment name):
 - (A) We shall provide and shall be fully responsible for design, engineering & commissioning, manufacturing and assembly drawings of..... (Equipment name). (Equipment name) shall be manufactured and supplied as per above design provided by us and the drawings approved by Employer.
 - (B) We shall depute technical experts to Bidder's/sub-vendor's works for supervision during manufacturing, assembly, erection, commissioning and final testing (as and when necessary) of the..... (Equipment name).
 - (C) 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 as required in case the equipment fails to demonstrate successful performance as per contract at site.
 - (D) We shall participate in Technical Co-ordination meetings (TCMs) from time to time, as and when required by Employer

Signature of authorized signatory.....

LETTER OF TECHNICAL SUPPORT FOR CONDENSATE POLISHING UNIT

3. We, the Associate /Collaborator*/Technology provider*/Licensor*/Qualified equipment manufacturer* do hereby undertake and confirm that this Letter of 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.

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Signature of the Authorised Representative:.....
For M/s

(Associate*/*Collaborator/*Technology provider/*Licensor/ Qualified equipment manufacturer*)

Name
Designation

Date:.....

Common Seal of the Company

*: Strike off whichever is not applicable.

Signature of authorized signatory.....