



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

Enquiry No- **77/24/6040/VIN**

Date- **01.02.2025**

BHEL invites offers from reputed vendors meeting pre-qualifying requirements for **Water Treatment** Package as per following details:

1.	Type of Tender	Open Tender - Domestic	
2.	Package(s) Name	Water Treatment Packages	
		Type-B Packages	Type-A Packages
		Chemical Dosing System	Pre-Treatment Plant
		Oxygen Dosing System	Demineralization Plant
		Lime Dosing System	Condensate Polishing Plant
			Effluent Treatment Plant
			Sewage Treatment Plant
			CW Chemical Treatment Plant
			CHP Run-Off Water Treatment System
		Chlorine Dioxide Dosing System	
3.	Project	2X800MW SINGRAULI STPP, Stage-III	
4.	End Customer	NTPC	
5.	Executing Agencies	BHEL PEM for Design, Supply and Mandatory spares of Type -B Packages. BHEL-PSNR for complete scope of Type – A packages and balance scope of Type - B Packages	
6.	No. of Part Bid	02 (Two)	
7.	Complete Scope	AS PER TECHNICAL SPECIFICATION -PE-TS-512-404-W001	
7.1	Due Date & Time for Offer Submission	17.02.2025 (12:00:00 Hrs)	
7.2	Opening of Part I bid	17.02.2025 (16:00:00 Hrs)	
8.	Last Date for Seeking Clarification	08.02.2025	
		Bidders to contact BHEL (over phone/mail/visit-BHEL-PEM) for any clarification (technical or commercial) & get it clarified well before last date of seeking clarification. BHEL reserves the right not to respond to pre-bid clarifications received after last date of seeking clarification. Bidders to furnish the pre-bid queries in editable format also.	
9.	Schedule of Pre-Bid Discussion	10.02.2025 (online mode)	
10.	Pre-qualification Requirements	Financial PQR- YES	Technical PQR- YES
		This item/package /system falls under the list of items defined in para 3 of ministry of finance guideline dated 20.09.16 (Procurement of items related to Public safety, Health, Critical Security operations & Equipment's etc.) & hence criteria of prior experience/Turnover shall be same for all the Suppliers including Start-up/MSME.	
11.	Price Basis	PVC Applicable, Refer Attached Annexure for PVC for formula.	
12.	Price Finalisation Mode	Reverse Auction, in case of single qualified bid, price bid of single qualified bidder shall be opened.	
13.	CIF Applicability	Not Applicable	
14.	Quantity Variation	+/-10%	



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NOTICE INVITING TENDER (NIT)

15.	End Customer Approval	Applicable		
16.	HSE Guidelines	Applicable, Please refer the below link to download https://pem.bhel.com/Documents/GCC/HSE%20Plan%20Rev02.pdf		
17.	Eligibility of Tender as per Make in India	Min 60% - Only Class-I Local Supplier		
18.	Evaluation Criteria	<p>Evaluation will be done on overall L1 (Total Cost to BHEL excluding GST) basis with necessary loading as applicable. The evaluation currency for this tender shall be INR.</p> <p>In RA, the loading (technical/commercial), if any, shall be added by bidder while submitting the bid in reverse auction portal. Ordering shall be done after de-loading the commercial/ technical loading from bidder's final price.</p> <p>In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.</p> <p>In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder (s) or their representative(s).</p> <p>Ranking will be done accordingly. BHEL's decision in such situations shall be final & binding.</p>		
19.	Integrity Pact Applicability - YES	<p>In line with cl. No. 12 of (ITB) BOP-GCC (along with corrigendum-1 to GCC), following Independent External Monitors (IEMs) have been appointed by BHEL.</p> <p>Shri Otem Dai, IAS (Retd.) (iem1@bhel.in) Shri Bishwamitra Pandey, IRAS (Retd.) (iem2@bhel.in) Shri Mukesh Mittal, IRS (Retd.) (iem3@bhel.in)</p>		
20.	Earnest Money Deposit (EMD)	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Applicable</td> <td style="width: 50%;">EMD Value - 40 Lakhs</td> </tr> </table>	Applicable	EMD Value - 40 Lakhs
Applicable	EMD Value - 40 Lakhs			
		<p>EMD is to be submitted by all the bidders along with their bids (except Micro and Small Enterprises (MSEs) or Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT)).</p> <p>Modes of deposit</p> <p>The EMD shall be accepted only in the following forms:</p> <p>i) Electronic Fund Transfer credited in BHEL account (before tender opening): https://pem.bhel.com/Documents/SupplierSection/BHELBANKER.pdf</p> <p>ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL-PEM, Noida (along with the offer).</p> <p>iii) Fixed Deposit Receipt (FDR)</p> <p>iv) Bank Guarantee from any of the Scheduled Banks (refer Annexure A along with GeM Bid/NIT for BG Format)</p> <p>v) Insurance Surety Bonds.</p> <p>Scanned copy of EMD shall be uploaded by Supplier in the online bid and hard copy of the same (excluding EFT at s.no (i) shall have to be submitted to the bidder within 7 (Seven) working days of bid opening, failing which the bid shall be rejected by giving a suitable cut-off date.</p>		



Bharat Heavy Electricals Limited
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PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

		<p>Validity period of EMD: The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period. EMD shall not carry any interest.</p> <p>Forfeiture of EMD: - A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.</p> <p>EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors (abridged version of guidelines is available on www.bhel.com)" and forfeited/ released based on the action as determined under these guidelines.</p> <p>Return of EMD: -</p> <p>Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period and latest by the 30th day after the award of the contract. However, Bid securities of unsuccessful bidders during first stage i.e. technical-commercial evaluation etc. shall be returned within 30 days of declaration of result of first stage i.e. technical-commercial evaluation. Bid security shall be refunded to the successful bidder on conclusion of the order/ receipt of a performance security.</p>
21.	Performance Security (PS)	<p>Successful bidder is required to submit Performance Security for respective scope as defined at sl. No. 5 above to BHEL-PEM & BHEL-PSNR as below within 14 days from the date of PO/LOA:</p> <p>i. Initially 10% of the contract value (total Ex-works price excluding PVC) of Supply/Turnkey Packages. 5% of the contract value (excluding PVC) will be released after completion of E&C based on certification by Project Group/Purchaser. However, 5% of the contract value (excluding PVC) will be released on completion of all contractual obligations, including guarantee/warranty obligations of respective package based on certification by Project Group/Purchaser.</p> <p>OR</p> <p>ii. 5% of the contract value (total Ex-works price excluding PVC) of Supply/Turnkey Packages. Additional 5% of the contract value will be retained from first bill & subsequent bill(s) of the contract for Supply/Turnkey Packages. The retention amount will be released after completion of E&C based on certification by Project Group/Purchaser. However, 5% of the contract value (excluding PVC) will be released on completion of all contractual obligations, including guarantee/warranty obligations of respective package based on certification by Project Group/Purchaser.</p> <p>Validity of PS: As per clause no-11.3 of GCC BOP Rev-00 (along with corrigendum-1 to GCC).</p> <p>Modes of deposit - Performance security may be furnished in the following forms:</p> <p>a) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.</p>



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

		<p>b) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.</p> <p>c) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).</p> <p>d) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).</p> <p>e) Insurance Surety Bond. (Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith) Performance Security should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.</p> <p>Notes/Remarks</p> <p>a) The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.</p> <p>b) Performance security should be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.</p> <p>The Performance Security shall not carry any interest.</p>
22.	Delivery terms	FOR Despatch Station for supply
23.	Breach of contract, Remedies and Termination	<p>Clause no. 27.0 of GCTC of GCC-BOP (along with corrigendum-1 to GCC) is not applicable. However, in case of Breach of Contract by supplier, BHEL shall recover 10% of the contract value from the supplier using following instruments:</p> <p>(i) Encashment of security instruments like EMD, Performance Security with executing agency (PS-Regions/PEM as applicable) against the said contract</p> <p>(ii) Balance amount (if value of security instruments is less than 10% of the contract value) from other financial remedies i.e. available bills of the Supplier, retention amount etc. with executing agency (PS-Regions/PEM as applicable)</p> <p>(iii) Balance amount from security instruments like EMD, Performance Security and other financial remedies i.e. available bills of the Supplier, retention amount etc. with other units of BHEL</p> <p>(iv) If recovery is not possible then legal remedies shall be pursued</p> <p>The balance scope shall be got done independently without Risk & Cost of the failed supplier/ contractor. Further, levy of Liquidated Damages, Debarment, Termination, De-scoping, Short-closure, etc., shall be applied as per provisions of the contract.</p>
24.	Delivery Schedule	As per Annexure- A
25.		As per Annexure- B



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

	Payment Terms	Suppliers shall submit billing documents for payment directly to BHEL. Payment will be released within 30 days after submission of complete documents.
26.	Guarantee Period	As per cl. no 12.0 of BOP GCC (along with corrigendum-1 to GCC).
27.	Liquidated Damages	As per cl. no. 16.0 of BOP GCC and corrigendum -1 to GCC.
28.		1) PO for Design, Supply and Mandatory spares of Type -B Packages shall be placed by BHEL – PEM. 2) PO for complete scope of Type – A packages and balance scope of Type -B Packages shall be placed by BHEL- PSNR.
29.		BHEL shall be resorting to Reverse Auction (RA) (as per RA Guidelines -2024 available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking. Bidders to note that the elimination of the bids in RA shall be as per RA guidelines-2024. RA shall be done at Evaluation cost as mentioned above at Clause No. 18 of NIT. In case of single qualified bid, price bid of single qualified bidder shall be opened.

SL. No	Other Terms & Conditions:
1.	Other Terms & Conditions shall be as per enclosed Special Conditions of Contract (SCC) of the project, General Conditions of Contract (GCC)-BOP Rev 00 (along with corrigendum-1 to GCC) which is available on www.pem.bhel.com and other Terms and Conditions included in this Enquiry Letter.
2.	BOCW cess (if applicable) shall be borne by bidder
3.	Verification of PQR documents- Bidders to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and e-mail Id etc. In case the same is not available, then purchaser has right to reject such document(s) from evaluation.
4.	Bidder to note that this is an Open Tender (Indian) enquiry & consideration of their offer for price bid/RA shall be subjected to the following conditions: Qualifying Technical & Financial Pre-Qualification Requirement. Techno-commercial acceptance of offer by BHEL-PEM. Approval of bidder by End Customer: - Same shall be taken up with end customer based on the latest credentials/reference list furnished by bidder. Accordingly, bidders are requested to submit credential as per the format enclosed herewith along with their technical bid. It is suggested that suppliers participating in the tender get themselves registered with BHEL-PEM as a "Regular Supplier". Regular Suppliers for the package are informed about the floated tender enquiries by BHEL-PEM. Suppliers to apply online through registration portal available at www.pem.bhel.com - Supplier Section - Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration can be uploaded & submitted online through the website.
5.	All corrigenda, addenda, amendments, time extensions, clarifications, etc. to the tender will be hosted on BHEL website (www.bhel.com) & BHEL-PEM website (www.pem.bhel.com). Bidders should regularly visit websites to keep themselves updated.



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

6.	GeM Seller ID shall be mandatory before placement of order/award of contract to the successful bidder.
7.	Bidder to quote non-zero freight charges in percentage (%) of their quoted Total Ex-Works prices of supply.
8.	Construction Power & Construction water shall be as per SCC.
9.	All Bidders to comply Govt. of India, Ministry of Power, order no-25-111612018-PG dtd. 02/07/2020 regarding mandatory testing of all the imported items/equipment's/components.
10.	Insurance Deductibles/Excess: Insurance of the package shall be in BHEL scope. However, suppliers to take note of deductibles/ excess as per enclosed insurance policy while submitting their offer.
11.	<p>Make in India: For this procurement, the local content to categorize a supplier as Class I local supplier/ Class II local supplier/ Non-Local supplier and purchase preference to Class I local supplier shall be as defined in Public Procurement (Preference to Make India), Order 2017 Rev dated 19.07.2024 issued by DPIT. In case of subsequent order issued by nodal ministry changing the definition of local content for item in NIT, the same shall be applicable even if issued after issue of this NIT but before opening of part-II bids against this NIT. Bidders shall comply with all provisions of the Public Procurement (Preference to Make India), Order 2017 Rev dated 19.07.2024.</p> <p>The margin of purchase preference shall be as per above mentioned order dtd. 19.07.2024. For this tender, offer from only Class-1 Local Suppliers (meeting minimum 60% local content requirement) shall be considered.</p> <p>Bidders are required to provide the following along with the part-1 bid:</p> <p>Provide a certificate (in line with attached draft) from statutory auditor or cost auditor of the company (in the case of companies) or from a practising cost accountant or practising chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. Provide the details of the location(s) at which the local value addition shall be made.</p> <p>Please submit the extract of AGM Resolution of your company regarding appointment of statutory auditor or cost auditor of current year.</p>
12.	<p>Purchase preference would be applicable to MSE bidders as per GOI circular (No. F.1/4/2021-PPD dtd. 18.05.2023) and any other subsequent circulars / clarifications.</p> <p>The package is divisible in nature (i.e. Type-A & Type-B).</p> <p>In case L-1 is non-MSE bidder and MSE bidder(s) quotes prices within 15% margin of purchase preference. Purchase preference shall be given to lowest quoting MSE bidder for complete scope of Type-B packages. If lowest quoting MSE bidder does not accept the L-1 rates, the next higher MSE bidder quoting within 15% margin shall be given purchase preference and so on.</p>
13.	Bidders may visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation etc. before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions. No additional claim shall be entertained by BHEL in future, on account of non-acquaintance of above.
14.	Self-declarations/ Auditor's/ Accountant's Certificates submitted by the manufacturer/ supplier may be verified randomly by the committee constituted as per MoP Order 28-07-2020. In case of false documents/misrepresentation of the facts requisite action against such manufacturer/ supplier will be taken based on the recommendation of the Committee.
15.	All bidders to declare that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.



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PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

	In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.
16.	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>they have controlling partner (s) in common;' or they receive or have received any direct or indirect subsidy/ financial stake from any of them; or they have the same legal representative/agent for purposes of this bid; or they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid, or In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:</p> <p>The principal manufacturer directly or through one Indian agent on his behalf; and Indian/foreign agent on behalf of only one principal,'</p> <p>or</p> <p>A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "</p>
17.	GST shall be payable extra at actual.
18.	All the above terms and conditions, post-bid agreements/MoMs (during Techno- Commercial evaluation) shall automatically become a part of the Order/Contract after its finalisation.
19.	<p>Bidders to note that offers shall be submitted strictly in accordance with the requirements of tender documents. Bidders shall upload their complete offer meeting the requirements of the tender documents on e-procurement portal https://eprocurebhel.co.in/nicgcp/app.</p> <p>Following documents need to be uploaded:</p> <p>Offer forwarding/ covering letter Local Content Certificate in line with Make in India circular. Land Border Certificate. Integrity Pact Documents required for meeting Technical & Financial PQRs Un-price bid, Annexure-II (Cost of Withdrawal of Deviation) of GCC-BOP Rev 00 (along with corrigendum-1 to GCC) and Price bid in e-procurement portal.</p>
20.	It shall be the responsibility of the bidder to ensure that the tender complete in all respects is uploaded on or before the due date and time. Incomplete/late offers shall not be considered.



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21.	All correspondence shall be addressed to the undersigned by name & designation:	
	Mr. Vinit Kumar Verma/BOP M/s Bharat Heavy Electricals Ltd., Project Engineering Management, 3 rd Floor, BHEL Sadan, Plot No 25, Sector-16 A, Noida-201301 E-MAIL: vinitkverma@bhel.in Ph. No. 9990921010	Mr. Upendra Chaudhary, DGM/BOP M/s Bharat Heavy Electricals Ltd., Project Engineering Management, 3 rd Floor, BHEL Sadan, Plot No 25, Sector-16 A, Noida-201301 E-MAIL: upendrachaudhary@bhel.in Ph. No.
Note - In case you are not making an offer against this enquiry, you are requested to send a regret letter so as to reach us on or before the due date.		

Thanking You.
For and on behalf of BHEL

Vinit Kumar Verma
(Sr. MGR / BOP)

Enclosures: - (1) SCC of the Project (2) Financial PQR (3) Technical Specifications (4) Technical PQR (5) Draft format for Make in India certificate (6) Draft Format for land/ border declaration (7) Price Schedule and Cost of withdrawal of deviation(s) as per annexure II of GCC-BOP (along with corrigendum-1 to GCC) (8) Annexure-A to NIT for Delivery Schedule (9) Annexure-B to NIT for Payment Terms (10) HSE Plan (11) Insurance policy (12) PVC annexure



PRE - QUALIFYING REQUIREMENTS

PROJECT: 2 X 800 MW NTPC SINGRAULI TPP Stage-III

PACKAGE: Water Treatment Package

CRITERIA FOR EVALUATION - FINANCIAL :

	Amount (in Rs.)
Average annual financial turnover value during any three out of last six Financial Years as on tender due date should not be less than	23,76,00,000.00

Rs. Twenty Three Crore Seventy Six Lakh only

Notes:-

a) The bidder has to submit financial accounts (audited, if applicable comprising of Audit report, Balance Sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue), for any three out of last six Financial Years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual financial turnover shall be calculated based on available information as below:-

i) If the accounts are available for ≤ 1 Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).

ii) If the accounts are available for >1 but ≤ 2 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for >2 but ≤ 3 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.

c) Other Income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered.

e) Bidder who is 50% or above subsidiary of any other company including those registered outside India and does not meet any of the above Financial Criteria, such bidder may be qualified based on credentials of its holding company provided such holding company meets the above PQR criteria. In such case, the Bidder would be required to furnish a Letter of Support from its Holding Company, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.

f) In cases where audited results for the last financial year as on the date of Techno Commercial bid opening are not available, a Certificate would be required from CEO/CFO stating that the financial results of the Company are under audit as on the date of Techno-commercial bid opening and are not available.



**TECHNICAL PRE QUALIFICATION REQUIREMENT FOR FOR
WATER TREATMENT PACKAGES FOR SINGRAULI SUPER
THERMAL POWER PROJECT STAGE-III (2X800 MW)**

PE-PQ-512-404-W001

DATE 17-11-2024

REV NO 00

PAGE NO. Page 1 of 4

SL. NO.	DESCRIPTION
1	TECHNICAL PRE-QUALIFICATION REQUIREMENT
1.1	Pre-treatment Plant (PTP) 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 22.12.2023 .
1.2	Demineralization Plant (DM Plant)- (ION EXCHANGE BASED/ REVERSE OSMOSIS BASED) Ion Exchange based DM Plant 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 22.12.2023 . OR Reverse Osmosis Plant DM Plant In case the Bidder offers reverse osmosis with mixed bed combination plant for DM water, the Bidder/its sub-vendor should have designed, supplied, erected and commissioned / supervised commissioning of one (1) number Reverse Osmosis (RO) 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. The above RO plant (s) should be having design 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 22.12.2023 .
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 / its Sub-vendor 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 22.12.2023 . OR b. The Bidder/its Sub-vendor who do not meet the qualification requirements stipulated at (a) above, may also participate provided the Bidder/its Sub-vendor 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 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) above. In such a case, the Bidder shall be required to furnish a Letter of Support (Technical) from Collaborator / Associate for successful performance of Condensate Polishing Plant, as per the format enclosed (Refer Annexure-A).
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 22.12.2023 . 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.



**TECHNICAL PRE QUALIFICATION REQUIREMENT FOR FOR
WATER TREATMENT PACKAGES FOR SINGRAULI SUPER
THERMAL POWER PROJECT STAGE-III (2X800 MW)**

PE-PQ-512-404-W001

DATE	17-11-2024
REV NO	00
PAGE NO.	Page 2 of 4

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 22.12.2023 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 though 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>



**TECHNICAL PRE QUALIFICATION REQUIREMENT FOR FOR
WATER TREATMENT PACKAGES FOR SINGRAULI SUPER
THERMAL POWER PROJECT STAGE-III (2X800 MW)**

PE-PQ-512-404-W001

DATE	17-11-2024
REV NO	00
PAGE NO.	Page 3 of 4

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 SINGRAULI SUPER THERMAL POWER PROJECT STAGE-III] 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 SINGRAULI SUPER THERMAL POWER PROJECT STAGE-III” document no PE-PQ-512-404-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 SINGRAULI SUPER THERMAL POWER PROJECT STAGE-III. [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, trail 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.



**TECHNICAL PRE QUALIFICATION REQUIREMENT FOR FOR
WATER TREATMENT PACKAGES FOR SINGRAULI SUPER
THERMAL POWER PROJECT STAGE-III (2X800 MW)**

PE-PQ-512-404-W001

DATE	17-11-2024
REV NO	00
PAGE NO.	Page 4 of 4

ANNEXURE-A

LETTER OF SUPPORT FOR CONDENSATE POLISHING PLANT (CPU)

FORMAT FOR FILLING THE DETAILS OF PROVENNESS

**LETTER OF SUPPORT FOR SATISFACTORY PERFORMANCE OF
(EQUIPMENT/SYSTEM NAME) FOR
SINGRAULI STPP STAGE-III (2X800 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.**