



Bharat Heavy Electricals Limited

Tender Notice

Enquiry no. BHEL/CSU/INST/009

Two part Bids are invited for procurement of **De mineralized water plant** of capacity 200litre per day.

Tender document: - The Tender document can be downloaded from BHEL website www.bhel.com

Technical & Commercial bid shall be opened on: - 12 Dec, 2008 (15.00 hrs)

Acceptance of Tender: Before the opening time in the Tender Box kept in the office of
Addl. General Manger (P & D).CSU BHEL, Jagdishpur
Industrial Area, Dist. Sultanpur- PIN-227817 UP.
Email-vminocha@bhelepd.com

Offer should be accompanied with:-

1. Tender will be opened in the office of Addl. General Manager P & D, CSU, BHEL, Jagdishpur, on the above specified date and time in the presence of those who may like to be present.
2. BHEL reserves the right to reject any or all the tenders without assigning any reasons whatsoever and the decision of BHEL shall be final.
3. While submitting the bids, it will be ensured by the bidders that :-
 - i. Techno/ Commercial Bid is kept in envelope No.1.-Super scribe this envelope as- Tender Enquiry no. BHEL/CSU/INST/009 Date- 25 Nov, 2008- Techno/ Commercial Bid.
 - ii. Price bid is kept in envelope No.2- Super scribe this envelope as-Tender Enquiry no BHEL/CSU/INST/009 Date- 25 Nov, 2008- Price bid.
 - iii. Envelope no.1 & no.2 are kept in a bigger envelope no.3

All the papers (including the envelopes) should be signed & rubber stamped by the bidder

4. Price bid shall be opened only for those bidders who qualify in the technical bid.
5. Technical Specification given in ANNEXURE – I
6. Commercial requirement is given in ANNEXURE – II
7. Price bid should be given in the format of ANNEXURE - III



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ANNEXURE-I of TE-BHEL/CSU/INST/009

Technical Requirement

Purpose: -

The **de mineralized water plant (DM Water plant)** is required for water to be used as solvent of core plate varnish.

Quantity: - one (1)

Technical Specification: -

The water should be of boiler quality with following parameters-

1. PH : 6.8 to 7.2
2. Specific electrical conductivity, micro mhos/cm at 25 deg Celsius (max) : 0.30
3. Total Silica mg/l (as SiO₂) < 0.02ppm
4. Hardness mg/litre : practically nil
5. Total Iron (max) : 0.01ppm
6. Total copper (max) : 0.005ppm
7. Total organic carbon (max) : 0.20ppm

Note: -

1. Supplier shall give the details/ drawings of the civil work with in 7 days of receipt of LOI/PO.
2. All civil work will be done by BHEL.
3. Erection, commissioning and proving the performance parameters to the satisfaction of BHEL will be done by supplier.



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ANNEXURE-II of TE-BHEL/CSU/INST/009

Commercial & Qualifying Requirements

General-

- **The tender document consists of two parts-**
 1. Technical requirement.
 2. Commercial & qualifying requirement.The tender document can be downloaded from our website- www.bhel.com
- While submitting the bids, it will be ensured by the bidders that:-
 1. Techno/ Commercial Bid is kept in envelope No.1.-Super scribe this envelope as-Tender Enquiry no. **BHEL/CSU/INST/009** Date- 25 Nov, 2008- Techno/ Commercial Bid.
 2. Price bid is kept in envelope No.2- Super scribe this envelope as-Tender Enquiry no **BHEL/CSU/INST/009** Date-25 Nov, 2008- Price bid
 3. Envelope no.1 & no.2 are kept in a bigger envelope no.3
 4. The bids should be addressed to AGM-P&D, Centralized Stamping Unit, BHEL, Industrial Area Jagdishpur, Dist. Sultanpur, and UP.PIN-227817. Email-vminocha@bhelepd.com
 5. All papers, including the three envelopes must be signed & rubber stamped by the bidder.
- **Technical & Commercial bid shall be opened on: -** 12 Dec, 2008 (15.00 hrs)

Commercial conditions

1. The prices are firm and inclusive of all taxes, duties, freight, Insurance, erection and commissioning charges. Supplier will submit billing breakup along with the offer
2. Excise duty and CST against form C will be payable at actual.
3. Original excise duty gate pass shall be submitted by the vendor to enable purchaser to claim Cenvat credit.
4. The equipment with its auxiliaries, maintenance tools & tackles and spare parts shall be supplied FOR, BHEL works, Jagdishpur, Dist. Sultanpur, UP-PIN227817.
5. Date of dispatch for supplies (LR/GR date) shall be treated as date of supply.
6. The title of goods shall pass on to the purchaser on FOR Terms.

Terms Of Payment

- 8.1 100 %(full payment) of price along with, excise duty & CST will be paid against material receipt certificate after acceptance of material at site.
 - 8.2 All bank charges shall be to vendor's account.
7. **Penalty for Delay**
- (i) The delivery of equipment shall be made within the time prescribed. Failure to dispatch the equipment in time as per the delivery specified above would make the vendor liable to an un-conditional penalty at the rate of one half percent (1/2%) of



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the order value each lot for delay of each week (or part thereof) Subject to a maximum of ten percent (10%) of the order value.

8. Acceptance of equipment

- (i) The equipment will be accepted by the purchaser after installation, testing and commissioning of the equipment at BHEL site.
- (ii) The guarantee period of the equipment will start from the date of acceptance of equipment by the purchaser.

9. Equipment Guarantee

- (i) The equipment shall be guaranteed by the vendor for a period of 12 (twelve) months from the date of acceptance of the equipment by the purchaser.

10. Invoices and payment documentation

- (i) Invoices shall be issued by the supplier in the name of the purchaser.
- (ii) The invoices shall contain the following information:
 - A. item no. quantity and description of equipment as per purchase order.
 - B. Gross amount payable and net amount payable.
 - C. Taxes and duties payable.
 - D. Tax Registration No.
- (iii) The following documents shall be presented by the supplier to the purchaser for drawing payment:
 - A. Signed commercial invoice in quadruplicate.
 - B. LR (or equivalent document).
 - C. Packing list indicating dimensions of each case / bundle / piece shipped with weight and number of items it contains.
 - D. Manufacturer's inspection / test certificate.
 - E. Manufacturer's guarantee / warrantee certificate as per purchase order.
 - F. Declaration by the supplier certifying that the contents in each case are not less than those entered in the invoices / packing list and that the invoicing for the supplies effected is strictly in accordance with agreed rates as stipulated in the purchase order.
 - G. Dispatch clearance certificate from purchaser.

11. Dispatch instructions

- (i) The consignee shall be as follows
Additional General Manager
Centralised Stamping Unit
BHEL Jagdishpur (Industrial Area)
Distt – Sultanpur, UP, PIN-227817

Arbitration- GM-CSU (or any official appointed by him) shall be the sole arbitrating authority.

Qualifying requirements

- 1. Supplier should have supplied the DM water plant of at least 200L per day in the last three years. Documentary evidence to this effect should be given along with the technical offer.



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ANNEXURE-III of TE-BHEL/CSU/INST/009

PRICE BID

Price bid The price bid is to be submitted in the following format-

Price bid for the DM water plant –Tender Enquiry no. BHEL/CSU/INST/009

Basic Price	Excise Duty	<u>CST/VAT</u>	Freight + Insurance	Erection & Commissioning	Service tax	other expenses	Total

Note-

- No condition / any statement should be given in the price bid. Any condition / statement may invalidate the price bid. Any clarification / information may be sought before submitting the tender.
- Price bid will be opened only for those bidders who qualify the technical bid.
- All the columns of the format must be filled. If a particular parameter is not applicable , the same should be written.
- Evaluation criterion of the price bid will be the lowest cost to BHEL.



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Tender Notice

Tender Enquiry No.- BHEL/ CSU/ INST/ 010

Two part Bids are invited for procurement of Cooling Tower & other accessories.

Tender document: - The Tender document can be downloaded from BHEL website www.bhel.com

Technical & Commercial bid shall be opened on: - 12 Dec, 2008 (15.00 hrs)

Acceptance of Tender: Before the opening time in the Tender Box kept in the office of Addl. General Manager (P & D).CSU BHEL, Jagdishpur Industrial Area, Dist. Sultanpur- PIN-227817 UP.
Email-vminocha@bhelepd.com

Offer should be accompanied with:-

5. Tender will be opened in the office of Addl. General Manager P & D, CSU, BHEL, Jagdishpur, on the above specified date and time in the presence of those who may like to be present.
6. BHEL reserves the right to reject any or all the tenders without assigning any reasons whatsoever and the decision of BHEL shall be final.
7. While submitting the bids, it will be ensured by the bidders that :-
 - iv. Techno/ Commercial Bid is kept in envelope No.1.-Super scribe this envelope as- Tender Enquiry no. BHEL/CSU/INST/010 Date- 25 Nov, 2008- Techno/ Commercial Bid.
 - v. Price bid is kept in envelope No.2- Super scribe this envelope as-Tender Enquiry no BHEL/CSU/INST/010 Date- 25 Nov, 2008- Price bid.
 - vi. Envelope no.1 & no.2 are kept in a bigger envelope no.3

All the papers (including the envelopes) should be signed & rubber stamped by the bidder

8. Price bid shall be opened only for those bidders who qualify in the technical bid.
5. Technical Specification given in **ANNEXURE – I**
6. Commercial requirement is given in **ANNEXURE – II**
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ANNEXURE-I of TE- BHEL/CSU/INST/010

Technical Specification of Cooling Tower & other accessories

1. PURPOSE:-

Cooling Tower along with two water circulating pumps (one main and one standby) and piping from cooling tower to Blanking Machine for cooling the coolant of the Blanking machine. Distance between the machine & the cooling tower will be 10m.

Quantity-1 No.

2. SCOPE OF SUPPLY:-

The scope of supply includes design, manufacture, testing, supply, erection & commissioning and Demonstration of the following:

- One No. FRP Induced Draft Cooling tower
- Two nos. water circulating pumps
- Piping from cooling tower to Blanking Line.
- Cable, Starters, panels and other electrical fittings for motors.
- Valves and fittings.

Civil work will be done by BHEL. All other work including supply, erection, commissioning, testing, proving of performance parameters will be in the scope of the vendor.

3. TECHNICAL SPECIFICATION:-

Performance parameters	
WATER FLOW RATE	12000 Litre per hour
Hot water TEMPERATURE	39 °C
Cold water TEMPERATURE	30 °C

SPECIFICATIONS :		
Parameter	Suggested	Vendor to confirm
TYPE	FRP INDUCED DRAFT COUNTER FLOW	
HEAT REJECTION CAPACITY	Vendor to specify	
HEIGHT	2200mm	
DIAMETER	1800mm	
FAN DIAMETER/ AIR VOLUME	1000mm/ 4 blades/ 28mm bore/9,000 CFM	
MOTOR SPECIFICATION	2 HP 960 RPM	
MOTOR TYPE	IP 55/415 V/50 Hz/ 3	



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	PHASE/FLANGED TYPE	
MOTOR MAKE	-----	
FAN	Axial Flow – Direct Drive – ALUMINIUM BLADES.	
WATER CIRCULATING PUMP MOTOR	-----	
PUMP HEAD	2800mm	
EVAPORATION LOSSES	1.5% (max.)	
DISTRIBUTION	ALUMINIUM SPRINKLER 3” x 4 way /50mm	
CASING	FRP (Fiberglass Reinforced Plastics) 3 mm	
WATER BASIN	FRP (Fiberglass Reinforced Plastics) 4 mm	
SUCTION TANK	Galvanized Steel	
INLET /OUTLET /HEADER PIPE SIZE	Vendor to specify	
BRANCH PIPE WITH CAPS & CHUCK-NUT	PVC – 50mm	
AIR INLET MESH	PVC SQUARE HOLES TYPE (1” x 1”)	
MOTOR COVER	FRP (Fiberglass Reinforced Plastics) 3mm	
NUMBER OF FRP CASINGS	6 PER TOWER	
NUMBER OF FRP BASE	1 PER TOWER	
CABLES,PANELS,STARTERS ETC AND OTHER ELECTRICAL FITTINGS FOR MOTORS	-----	
MS PIPING AS PER APPLICABLE CODES-50 M. LENGTH	-----	
VALVES AND FITTINGS FOR PIPING	-----	
Details of starters, electrical installations for fan, pump, other safety equipments, control panels etc. Note-vendor to specify the power connection required at one single point to be given by BHEL.	-----	

4. **ERECTION AND COMMISSIONING:**

The Civil works shall be done by Purchaser. Vendor will provide the drawings/ details of foundation/ civil work. Erection and commissioning of Cooling Tower & other accessories shall be done by the vendor, at his cost, at BHEL Works. The details about drawing and instruction for civil work shall be provided by the supplier.

5. **DEMONSTRATION:**

Centralized Stamping Unit & Fabrication Plant, Jagdishpur Industrial Area, Distt. Sultanpur (UP) 227 817, INDIA

Tel.: ++91 5361 27 1376; FAX: 27 0057; e-mail: rksharma@bhel.co.in; web site: www.bhel.com

Registered & Corporate Office: 'BHEL House', Siri Fort, New Delhi 110 049



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After installation, Vendor shall demonstrate all features of the equipment and its accessories to the satisfaction of BHEL, for their efficient, trouble free operation and effective use. Demonstration shall be arranged by vendor, at his cost.

6. OTHER REQUIREMENTS:

- ❖ Complete layout / foundation drawings shall be supplied within one week after placement of order by BHEL.
- ❖ Guarantee period of the Cooling Tower & other accessories shall be 12 month after acceptance of the cooling tower.
- ❖ Detailed catalogues giving Design / Constructional details of Cooling Tower / Assemblies/ Accessories should be sent along with the quotation.
- ❖ Operation & Maintenance manual of the Cooling Tower & other accessories shall be supplied.

Note: -

4. Supplier shall give the details/ drawings of the civil work with in 7 days of receipt of LOI/PO.
5. All civil work will be done by BHEL.
6. Erection, commissioning and proving the performance parameters to the satisfaction of BHEL will be done by supplier.



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ANNEXURE-II of TE- BHEL/CSU/INST/010

Commercial & Qualifying Requirements

General-

- **The tender document consists of two parts-**
 1. Technical requirement.
 2. Commercial & qualifying requirement.

The tender document can be downloaded from our website- www.bhel.com
- While submitting the bids, it will be ensured by the bidders that:-
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 10. All papers, including the three envelopes must be signed & rubber stamped by the bidder.
- **Technical & Commercial bid shall be opened on: -** 12 Dec, 2008 (15.00 hrs)

Commercial Conditions

12. The prices are firm and inclusive of all taxes, duties, freight, Insurance, erection and commissioning charges. Supplier will submit billing breakup along with the offer
13. Excise duty and CST against form C will be payable at actual.
14. Original excise duty gate pass shall be submitted by the vendor to enable purchaser to claim Cenvat credit.
15. The equipment with its auxiliaries, maintenance tools & tackles and spare parts shall be supplied FOR, BHEL works, Jagdishpur.
16. Date of dispatch for supplies (LR/GR date) shall be treated as date of supply.
17. The title of goods shall pass on to the purchaser on FOR Terms.
18. The equipment ordered will be inspected at vendor's works prior to dispatch. The equipment shall be dispatched only after dispatch clearance from purchaser.
19. Terms Of Payment
 - 8.2 80% of price along with, excise duty & CST will be paid against material receipt certificate after acceptance of material at site.
 - 8.3 Balance 20% price will be paid after acceptance of equipment at BHEL works & submission of letter of acceptance for equipment & performance bank guarantee.
 - 8.3 All bank charges shall be to vendor's account.
20. Penalty for Delay
 - (i) The delivery of equipment shall be made within the time prescribed. Failure to dispatch the equipment in time as per the delivery specified above would make the



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vendor liable to an un-conditional penalty at the rate of one half percent (1/2%) of the order value each lot for delay of each week (or part thereof) Subject to a maximum of ten percent (10%) of the order value.

21. Bank Guarantees

- (i) The vendor shall furnish a contract performance guarantee (CPBG) of 10% of the contract price confirming that the contract will be executed as per the terms and conditions and the CPBG should be valid till the acceptance of equipment at purchaser's works (after completion of installation and commissioning and successful performance test) with a further claim period of two months. The CPBG will be released to the supplier after receipt of PBG.
- (ii) The vendor shall furnish a performance guarantee (PBG) of 10% of the contract price confirming that necessary service and maintenance support and guarantee replacements will be provided during the guarantee period. The PBG shall be valid up to end of the guarantee period with additional claim period of two months.
- (iii) All charges for establishing and amending the BGs if necessary shall be to vendor's account.

22. Acceptance of equipment

- (i) The equipment will be accepted by the purchaser after installation, testing and commissioning of the equipment at site.
- (ii) The guarantee period of the equipment will start from the date of acceptance of equipment by the purchaser.

23. Equipment Guarantee

- (i) The equipment shall be guaranteed by the vendor for a period of 12 (twelve) months from the date of acceptance of the equipment by the purchaser.

24. Invoices and payment documentation

- (i) Invoices shall be issued by the supplier in the name of the purchaser.
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- (iii) The following documents shall be presented by the supplier to the purchaser for drawing payment:
 - H. Signed commercial invoice in quadruplicate.
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 - J. Packing list indicating dimensions of each case / bundle / piece shipped with weight and number of items it contains.
 - K. Manufacturer's inspection / test certificate.
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 - M. Declaration by the supplier certifying that the contents in each case are not less than those entered in the invoices / packing list and that the invoicing for the supplies effected is strictly in accordance with agreed rates as stipulated in the purchase order.
 - N. Dispatch clearance certificate from purchaser.



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25. Dispatch instructions

- (i) The consignee shall be as follows
Additional General Manager
Centralised Stamping Unit
BHEL Jagdishpur (Industrial Area)
Distt – Sultanpur, UP, PIN-227817

Arbitration- GM-CSU (or any official appointed by him) shall be the sole arbitrating authority.

Qualifying requirements

2. Supplier should have supplied the cooling tower of at least 10,000L per hour (or a capacity of 30 TR) in the last three years. Documentary evidence to this effect should be given along with the technical offer.



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ANNEXURE-III of TE- BHEL/CSU/INST/010

PRICE BID

Price bid: - The price bid is to be submitted in the following format-

Price bid for the Cooling Tower & other accessories –Tender Enquiry no. BHEL/CSU/INST/010

Basic Price	Excise Duty	<u>CST/VAT</u>	Freight + Insurance	Erection & Commissioning	Service tax	other expenses	Total

Note: -

1. No condition / any statement should be given in the price bid. Any condition / statement may invalidate the price bid. Any clarification / information may be sought before submitting the tender.
2. Price bid will be opened only for those bidders who qualify the technical bid.
3. All the columns of the format must be filled. If a particular parameter is not applicable, the same should be written.

Evaluation criterion of the price bid will be the lowest cost to BHEL.