



An ISO 9001  
Company

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

### ENQUIRY

### NOTICE INVITING TENDER

Phone: +91 431 257 79 38  
Fax : +91 431 252 07 19  
Email : [tvenkat@bheltry.co.in](mailto:tvenkat@bheltry.co.in)  
Web : [www.bhel.com](http://www.bhel.com)

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	<b>2621000124</b>	<b>27.09.2010</b>	<b>27.10.2010</b>

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both **delayed offer** and **late offers** will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of **tender opening**.

Item	Description	Delivery Schedule	
		Quantity	Date
10	<b>300 KVAR Automatic PF Improvement Capacitor Panel</b> as per the technical specification & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	<b>4.00 Nos.</b>	<b>25.03.2011</b>

#### Important points to be taken care during submission of offer

1. Checklist to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM/CE/GT/001) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2621000124".

Tenders should reach us before 14:00 hours on the due date  
Tenders will be opened at 14:30 hours on the due date  
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

Sr. Manager / Capital Equipment / MM

**Specification for 300KVAR Automatic PF Improvement Capacitor Panel--quantity -4 nos**

Sl.No	Description for BHEL Requirement	Specified / To be confirmed by	Offered	Deviations if any
	Supply and commissioning of Automatic Power Factor Improvement Capacitor Panel as specified below:			
1.0	Capacitor Bank Rating	300 KVAR		
1.1	No. and rating of capacitor stages, type	Vendor to specify		
1.2	Type and make of capacitor	Vendor to specify		
1.3	The dielectric in the capacitor should be eco friendly and easy for disposal at the end of life under environmental concerns.	Vendor to confirm		
1.4	Rated Voltage	415V +/- 10%		
1.5	Rated Frequency	50 HZ		
1.6	System	3 Phase, 4 wire system		
2.0	Type of service	Continuous, indoor operation		
3.0	Automatic PF control	Intelligent Microprocessor based power factor controller		
3.1	Type and make of the APFC controller	Vendor to specify		
4.0	Switching Time	Variable		
5.0	Protection	over voltage		
6.0	Detection and display	overvoltage, overcurrent, harmonics		
7.0	Manual operation	Selectable option		
8.0	Contactors	Capacitor duty contactors.		
8.1	Current rating of the contactor	Vendor to specify		
8.2	Type and make of the contactor	Vendor to specify		
9.0	Digital indicating meters for current ,voltage and power factor should be to be provided in the panel front	Vendor to confirm		
10.0	No volt release in the event of power failure to be provided	Vendor to confirm		
11.0	Necessary switchgear,MCCB, contactors, HRC fuses to be provided	Vendor to confirm		
12.0	Approx. Dimension, weight	Vendor to specify		
13.0	Panel ventilation	Vendor to confirm		
14.0	Max. ambient temperature	45 deg. C		
15.0	Panel shall conform to IER with provision for earthing, fully wired, painted	Vendor to confirm		
16.0	Pre despatch inspection of APFC panel before 15 days should be informed and required training for Engineers /Technicians shhould be included in the offer for the Micro controllers operations & settings , etc at Manufacturer's works	Vendor to confirm		
17.0	3 sets of O&M manual, with circuit/ wiring diagram to be supplied along with the panel	Vendor to confirm		
18.0	Technical catalogue furnishing the features of the controller, capacitor, contactors and panel shall be enclosed with the offer	Vendor to confirm		
19.0	The capacitor, APFC controller and contactors/switch gears offered should be reputed make acceptable to BHEL	Vendor to confirm		
20.0	Only those vendors who have supplied and commissioned similar or higher capacity/ size PFI panel and working satisfactorily for at least one year after commissioning should quote.	Vendor to confirm		