



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 76 53 Fax : +91 431 252 00 31 Email : skaruna@bheltry.co.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID Tender to be submitted in two Parts	Enquiry Number: 2621300063	Enquiry Date: 15.11.2013	Due date for submission of quotation: 17.12.2013
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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	Quantity	Delivery Required
10	APFC Panel of 400 KVAR	01 No.	2-3 Months from PO date

as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or <http://tenders.gov.in>)

Important points to be taken care during submission of offer

1. The Compliance Form for Commercial Terms & Conditions 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/GENL/001-EMD) 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 above Enquiry reference.

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**

Engineer / Capital Equipment / MM

ANNEXURE - A
QUALIFICATION CRITERIA
Supply of 400 KVAR APFC Panel

S.No	Description	Vendor to confirm
1	Only those vendors, who have supplied APFC panel of maximum capacity of 400 KVAR / Higher rating that is working satisfactorily for atleast one year after commissioning should quote OR at least three companies in the past five years and such item should be working satisfactorily for a minimum period of one year after completion of commissioning as on the date of opening of this tender.	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	List of customers for whom similar kind of equipment is supplied along with the address	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customers letter head.	

ANNEXURE B

TECHNICAL SPECIFICATION FOR APFC PANEL OF 400KVAR

Sl. No	PARTICULARS	Vendor's to specify	Deviation
	Supply and commissioning of Automatic Power Factor Correction Panel as per the BHEL Technical specification given below.		
1.0	Panel Rating	400 KVAR.	
1.1	No. and rating of capacitor stages, type (min 11 stages)	50KVAR/ 6Nos., 25 KVAR / 3Nos., 12.5 KVAR / 2 Nos.	
1.2	Model and make of capacitor	MD Heavy Duty capacitor, MDXL Super Heavy Duty capacitor.	
1.3	Rated Voltage	415 Volts +/-10%	
1.4	Rated Frequency	50 HZ. +/-5%	
1.5	Current measurement CT ratio	800/5.	
1.6	System	3 Phase, 4 wire system.	
2.0	Type of service	Continuous, indoor operation.	
3.0	Automatic PF control-make Electronican/L&T/ABB/ICD /Schnider /Ducati or other make acceptable to BHEL.	Intelligent Microprocessor based power factor controller.	
4.0	Switching Time	Variable and selectable.	
5.0	Protection.	Over voltage	
6.0	Detection and display.	Over voltage, over current, harmonics	
7.0	Manual operation.	Selectable option	
8.0	Contactors for capacitor switching and MCB of suitable capacity as in comer 800 Amps.Capacitor duty contactors-63Amps contactor for 25KVAR,100A contcator for 50KVAR,and 32A contactor for 12.5KVAR and the makes of MCB/MCCB are Schnider,MDS,Merlin Gerlin, Seimens and L&T. The makes of Capacitor duty contactors are ABB, seimens, L&T,GE ...	Capacitor duty contactors.	
9.0	Digital indicating meters for current ,voltage and power factor , %THD should be to be provided in the panel front	Vendor to confirm	
10.0	No volt release in the event of power failure Required.	Vendor to confirm	
11.0	Necessary switchgear, contactors, HRC fuses Required.	Vendor to confirm	
12.0	Dimension- Appr. H1500 X W1200 X D 500 mm and weight App.600 Kg. .(Panel should be CRCA sheet with thickness of 3mm).	Vendor to confirm	
13.0	Panel ventilation 2 nos. of 510 CFM exhaust fan to be provided.	Vendor to confirm	
14.0	Max. temperature range Ambient .	+/- 50 deg. C	
15.0	Panel shall conform to IER with provision for earthing, fully wired, painted Required.	Vendor to confirm	

16.0	3 sets of Operation, Maintenance and Programming manual in English for Micro Processor, with circuit/ wiring diagram to be supplied along with the panel Required. Single copy of make, rating details, technical details and catalogue of all the bought out items used in the panel.	Vendor to confirm	
17.0	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer Required.	Vendor to confirm	
17.1	The capacitor, APFC controller and contactors/switch gears offered should be reputed make acceptable to BHEL.	Vendor to confirm	
18.0	Detuned harmonic suppression filters rated for 5.67% of capacitive reactance for individual capacitor controls has to be provided.--	Vendor to confirm	
	<p>Note :</p> <p>1) GA drawings and bill of materials to be submitted for approval before manufacturing of the panels.</p> <p>2) Final inspection to be offered at site before despatch.</p> <p>3) During commissioning the APFC panel in the substation, programming of the capacitors to suit the reactive compensation to be supported by the firm and necessary training to our staffs should be given.</p> <p>4) 3 sets of Operation, Maintenance manual in English . Circuit/ wiring diagram to be supplied along with the panel Required. Single copy of make, rating details, technical details and catalogue of all the bought out items used in the panel.</p> <p>5) Point by point confirmation is required from the supplier otherwise the offer will not be considered.</p>		