



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

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

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2621500002	28.01.2015	02.03.2015

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
10	APFC Panel of 400 KVAR as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in).	01 No.

Important points to be taken care during submission of offer

1. The Checklist for Acceptance of 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) 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.

<p>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.</p>	<p>Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED</p>  <p>Sr. Engineer / MM / Capital Equipment</p>
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ANNEXURE - A
QUALIFICATION CRITERIA
Supply of 400 KVAR APFC Panel

S.No	Description	Vendor to confirm
1	Only those vendors, who have manufactured APFC panel of capacity not less than 400 kVAr and supplied, i) to any one company in the past two years or ii) to at least three companies in the past five years and, Such item should be working satisfactorily for atleast one year after 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 equipments were supplied along with the details of contact person, mobile no., landline no., Fax, e-mail and address.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from atleast one customer for the satisfactory performance of the same, supplied to them in the customers letter head.	

ANNEXURE B
TECHNICAL SPECIFICATION FOR 400kVAR 5.67% DETUNED APFC PANEL

Sl. No.	Description	Vendor to confirm	Deviation (if any)
	Supply of Automatic Power Factor Correction Panel as per the BHEL Technical specification given below.		
1.0	Panel Rating: 400 kVAR at 415V		
1.1	Number of stages and ratings (11 Stages): 50 KVAR/ 6Nos., 25 KVAR/ 3Nos., 12.5 KVAR/ 2 Nos.		
1.2	Capacitors details: Model of capacitor: Heavy Duty, Make: Electronicon/ TDK Epcos/ L&T/Neptune / Siemens/ ABB/ Schneider.		
1.3	Detuned harmonic suppression filters rated for 5.67% of capacitive reactance for individual capacitor controls has to be provided.		
1.4	Rated Voltage: 415 Volts +/-10%		
1.5	Rated Frequency: 50 HZ. +/-5%		
1.6	Current measurement CT ratio: 800/5		
1.7	System: 3 Phase, 4 wire system.		
2.0	Type of service: Continuous, indoor operation.		
3.0	Intelligent Microprocessor based Automatic PF controller. Make: Electronicon/L&T/ABB/ICD /Schnider /Ducati or other make acceptable to BHEL.		
4.0	Switching Time: Variable and selectable.		
5.0	Protection: Over voltage		
6.0	Detection and display: Over voltage, over current, harmonics		
7.0	Auto/ Manual selectable operation to be provided		
8.0	Main incomer: 800A 415V MCCB. Capacitor duty contactors: -100A contactor for 50KVAR -63Amps contactor for 25KVAR and -32A contactor for 12.5KVAR. Makes of MCCB/MCB/ Contactors: Schnider/ ABB/ GE/ Seimens/ L&T.		
9.0	Digital multifunction meter for indicating current ,voltage, %THD and power factor should be to be provided.		
10.0	Dimension- Appr. H1500 X W1200 X D 500 mm and weight App.600 Kg. .(Panel should be CRCA sheet with thickness of 3mm).		
11.0	Incomer cable termination chamber shall be suitable for termination of 3 Runs of 3.5x185 Sqmm cable		
12.0	Panel ventilation 2 nos. of 510 CFM exhaust fan to be provided.		
13.0	Max. temperature range Ambient: +50/-10 deg. C		

14.0	Panel shall conform to IER with provision for earthing, fully wired, painted Required.		
15.0	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.		
16.0	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer Required.		
	<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 the commissioning of APFC panel in the substation, programming of the controller 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. 5)Point by point confirmation is required from the supplier otherwise the offer will not be considered.</p>		