

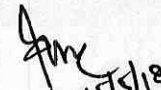
BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

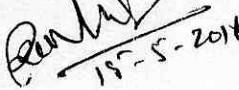
EQUIPMENT	THREE PHASE AUTOMATIC POWER FACTOR CORRECTION (APFC) PANEL (CAPACITOR BANK 100KVR)
RATING	100 KVR, 3 PHASE 415 VOLT
ITEM No.	SP/Serv./Misc./1/8/7205
SPECIFICATION No.	7205
LOCATION	SUB-STATION

- 1 VENDOR must submit complete information against clause No. 10.0 (Qualifying condition). The offer meeting this clause would only be processed.
- 2 The "Offered" Column and where applicable, the "Deviations" Column of this format shall be filled in by the Vendor and submitted along with the offer. Technical details also submitted with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non-compliance.
- 3 The offer and all documents enclosed with offer should be in English language only.

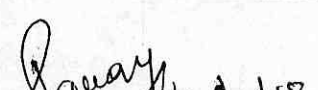
DESIGN, MANUFACTURING & SUPPLY, OF THREE PHASE AUTOMATIC POWER FACTOR CORRECTION (APFC) PANEL (CAPACITOR BANK 100KVR) AS PER SPECIFICATION.

	Vendor To Confirm/ Submit	OFFERED	DEVIATION
1 SPECIFICATION:			
Three phase automatic power factor correction panel is required for the correction of power factor in sub-stations. The panel shall be totally enclosed rigid floor mounting free standing cubicle type. Panel should be equipped with the following:-	Vendor To Confirm		
2 INTELLIGENT POWER FACTOR CONTROLLER			
Intelligent power factor controller shall be of reputed make i.e Siemens/L&T/BHC/C&S only. The controller shall have minimum 12 points controller. The controller shall have following features:	Vendor To Confirm		
(a) Measurement of power factor, total wattage, V Ar, Total VA, Total KWH and Total KV Arh.	Vendor To Confirm		
(b) Harmonic measurement	Vendor To Confirm		
(c) Programmable discharge time.	Vendor To Confirm		
(d) Additional external relay to operate capacitor duty contractor	Vendor To Confirm		
3 INCOMER			
Three phase suitable rating (not less than 300 Amp. Rating) MCCB shall be provided for ON/OFF of the panel. The switch shall be front rotary handle type. Make of the MCCB shall be Siemens/L&T/BHC/C&S only.	Vendor To Confirm		
4 CAPACITOR			
Suitable rating heavy duty (cylinder/ box type) capacitor shall be provided. The banking arrangement shall be 15, 15, 15, 10, 10, 10, 10, 10 & 5 KVAR rating (suitable option can be considered). The capacitor shall be mounted/ arranged on the panel in vertically and provision shall be provided for easy maintenance. Make of the capacitor shall be Siemens/L&T/BHC/C&S only.	Vendor To Confirm		
5 SWITCHING CONTACTOR			
Capacitor duty contactor shall be provided of suitable rating for ON/OFF of the capacitor. Make of the contactor shall be Siemens/L&T/BHC/C&S only.	Vendor To Confirm		
6 OUT GOING			
Suitable rating triple pole MCB / HRC fuses with fuse base shall be provided for out going connection. Make of the MCB/Fuses shall be Siemens/L&T/BHC/C&S only.	Vendor To Confirm		
7 TERMINAL PLATE			
Suitable cable termination arrangement shall be provided in the panel to connect cables.	Vendor To Confirm		
8 GENERAL REQUIREMENT			
1. R-Y-B indication shall be provided in the panel.	Vendor To Confirm		
2. Ammeter and voltmeter shall be provided in the panel.	Vendor To Confirm		
3. The Panel shall be complete light, stream line dust and vermin proof.	Vendor To Confirm		
4. The equipment should be confirmed to relevant IS/BS.	Vendor To Confirm		
5. Barriers for protection against fire between bus sections should be provided.	Vendor To Confirm		
6. All the drawing including outline general arrangement shall be submitted to us in Triplicate for approval before commencement of work.	Vendor To Confirm		
7. At least 15 day advance information should be given to enable us to depute our Representative for inspection / testing. Dispatch shall be affected only after inspection.	Vendor To Confirm		
8. The equipment shall be guaranteed in respect of material construction and operation against any manufacturing and design defect for a period of 24 months after supply.	Vendor To Confirm		
9. Offer shall be sent with complete literature and necessary details.	Vendor To Confirm		
10. The instruction and maintenance manual should be sent along with the equipments. (03 set)	Vendor To Confirm		
11. Notwithstanding the details in this specification if any thing else is required for its functioning the same should be brought in the notice and included in the offer.	Vendor To Confirm		
12. MAKE AND MODEL of offered item	Vendor To Specify		
13. Dimensional lay out of complete capacitor bank	Vendor To Submit		
9 QUALIFYING CONDITION			
9.1 Only those vendors, who are in the line of panel manufacturing or authorized agents of panel manufacturer, shall quote. Authorisation certificate required. The following information's are to be submitted with the offer. This is required from vendors for qualifications of their offers.	Vendor To Confirm		
9.2 Name of the panel manufacturer and company profile.	Vendor To Confirm		
9.3 Details of manufacturing facilities available at manufacturer works.	Vendor To Confirm		
9.4 Details of test facilities available at manufacturer works	Vendor To Confirm		
9.5 List of the company where supplied in last 2 years with address, name of contact person and phone number.	Vendor To Submit		
10 BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.	Vendor To Confirm		


S. Thomas
Dy. Eng(wex)


S.K. Bajpayee
Mgr. (WEX)


Y.K. Dhangra
Dy. Mgr(WEX, MOD)


Pawan Kumar
Sr. Mgr(WEX, MOD)