



**Boiler Auxiliaries Plant,
Bharat Heavy Electricals Limited,
Ranipet - 632406, Tamilnadu, INDIA.**

1. The 'Offered' Column and where applicable, the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

**Enquiry Number:
2761560E**

2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the supplier:

Name & Address of the Indian Agent:

Telephone No.

Telephone No.

Fax No.

Fax No.

e-mail :

e-mail :

Scope: Supply, Erection & Commissioning of 300KVAR AUTO POWER FACTOR PANEL complying with specification as below.

SPECIFICATION FOR 300kVAR AUTO POWER FACTOR PANEL - 3 Nos.

SLNo		BHEL REQUIREMENT			VENDOR TO SPECIFIED
		DESCRIPTION	MAKE	QTY / UNIT	
1	A	NON COMPARTMENTALISED FLOOR MOUNTED WITH ISMC 75 CHANNEL MS CUBICLE MADE OUT OF 14/16 SWG CRCA SHEET STEEL DULY COATED WITH RAL 7032			
2	B	INCOMER			
		1) 630A SWITCH FUSE UNIT	C&S /L&T/SIEMENS/BCH	1 NO	
		2) 630A HRC FUSE FOR THE ABOVE	C&S /L&T/SIEMENS/BCH	3 NOS	
3	C	METERING			
		1)IPFC RELAY MINIMUM 12 STAGES, MICROPROCESSOR BASED	PROK DVS/BELUK /L&T/ BCH OR EQUIVALENT	1 NO	
		1A) NECESSARY SOFTWARE AND CONNECTING CABLES MUST BE PROVIDED TO CHANGE THE IPFC SETTING AS AND WHEN REQUIRED AT SITE	AS PER IPFC MAKE	1 SET	
		2)CONTROL MCB 6A TPN FOR LAMP	C&S /L&T/SIEMENS/BCH	2 NOS	
		3)CONTROL MCB 6A DP FOR CONTROL	C&S /L&T/SIEMENS/BCH	1 NO	
		4)CT 600/5A,10VA CL 0.5 TAPE WOUND TYPE	KALPA/ANA/KAPCO/EQ	3 NOS	
		5)AUTO / MANUAL SELECTOR SWITCH 16A , 2WAY	SWITRON/KAYCEE/SALZER	1 NO	
		6)DIGITAL METER V,A,F 96 X 48MM	CONZERVE OR EQUIVALENT	1 NO	
		7) TIMER	EAPL/FRONTIER/EQ	1 NO	
		8)AUXILIARY CONTROL RELAY 230V AC (2 NO,NC)	C&S /L&T/SIEMENS/BCH	8 NOS	
		9)20A FUSE BASE WITH 4A LINK FOR LAMP	DAV/EQ	2 NOS	
4	D	BUS BAR			
		1) MIN 60 X 10mm AL FOR RYB BUSBAR WITH SUPPORTER & SLEEVE	REPUTED	1 SET	
		2) MIN 60 X 6mm AL FOR NEUTRAL BUS	REPUTED	1 SET	
		3) MIN 30 X 6mm AL FOR NEUTRAL BUS	REPUTED	1 SET	
		4) BUS BAR SUPPORT SMC/DMC	REPUTED	1 SET	



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5	E	OUGOINGS -50KVAR-4 NOS			
		1)125A TP MCCB	C&S /L&T/SIEMENS/BCH	4 NOS	
		2)CAPACITOR DUTY CONTACTOR FOR 50KVAR	C&S /L&T/SIEMENS/BCH	4 NOS	
		3)3Ph, 50 KVAR CAP BANK,HEAVY DUTY 415V,50HZ	C&S /EPCOS/EQ	4 NOS	
		4)CAP BANK ON/OFF ILLUMINATED PUSH BUTTONS	C&S /EQ	8 NOS	
		5) CABLE 25SQ MM FOR 50KVAR CAP BANK	REPUTED	4 SET	
6	F	OUGOINGS -25KVAR-2 NOS			
		1)100A TP MCCB	C&S /L&T/SIEMENS/BCH	2 NOS	
		2)CAPACITOR DUTY CONTACTOR FOR 25KVAR	C&S /L&T/SIEMENS/BCH	2 NOS	
		3)3Ph, 25KVAR CAP BANK,HEAVY DUTY 415V,50HZ	C&S /EPCOS/EQ	2 NOS	
		4)CAP BANK ON/OFF ILLUMINATED PUSH BUTTONS	C&S /EQ	4 NOS	
		5) CABLE 16SQ MM FOR 25KVAR CAP BANK	REPUTED	2 SET	
7	G	OUGOINGS -15KVAR-2 NOS			
		1)63A TP MCB	C&S /L&T/SIEMENS/BCH	2 NOS	
		2)CAPACITOR DUTY CONTACTOR FOR 15KVAR	C&S /L&T/SIEMENS/BCH	2 NOS	
		3)3Ph, 15KVAR CAP BANK,HEAVY DUTY 415V,50HZ	C&S /EPCOS/EQ	2 NOS	
		4)CAP BANK ON/OFF ILLUMINATED PUSH BUTTONS	C&S /EQ	4 NOS	
		5) CABLE 10SQ MM FOR 15KVAR CAP BANK	REPUTED	2 SET	
8	H	OUGOINGS -10KVAR-2 NOS			
		1)32A TP MCB	C&S /L&T/SIEMENS/BCH	2 NOS	
		2)CAPACITOR DUTY CONTACTOR FOR 10KVAR	C&S /L&T/SIEMENS/BCH	2 NOS	
		3)3Ph, 10KVAR CAP BANK,HEAVY DUTY 415V,50HZ	C&S /EPCOS/EQ	2 NOS	
		4)CAP BANK ON/OFF ILLUMINATED PUSH BUTTONS	C&S /EQ	4 NOS	
		5) CABLE 10SQ MM FOR 15KVAR CAP BANK	REPUTED	2 SET	
9	I	MISCELLANEOUS			
		1) 1.5 SQ MM WIRING FOR CONTROL SET	REPUTED	1 SET	
		2) 2.5 SQ MM WIRING FOR CONTROL SET	REPUTED	1 SET	
		3)MECHANICAL ACCESSORIES/LABLE/PANEL LOCK & KEY ETC	REPUTED	1 SET	
		4)EXHAUST FAN 230V AC, 6A	REPUTED	2 NOS	
		5) CFL LAMP FOR PANEL ILLUMINATION WITH DLS	PHILIPS	1 NO	
		6) NECESSARY DANGER BOARDS SHALL BE PROVIDED ON FRONT SIDE AND BACK SIDE OF THE PANEL			
		7) THE MUST BE ABLE TO MAINTAIN POWER FACTOR BETWEEN 0.9 LAG TO UNITY AS PER SETTING. USUAL SETTING IS 0.99			
		8)THE INPUT SUPPLY IS 415V, 3 PHASE,50HZ WITH NEUTRAL			
		9)ERECTION OF AUTO PF PANEL WILL BE DONE BY A GRADE CONTRACTOR . CO ORDINATION SHALL BE DONE BY SUPPLIER DURING COMISSIONING			
		10) SIGNAL CURRENT TO AUTO PFC PANEL IS 5 AMPS(FROM 2000/5A CT)			
		11) CAPACITOR COMBINATIONS SHOWN IN SL NO E,F,G,H ARE ONLY SAMPLE. SUPPLIER CAN PROVIDE SOME OTHER CAPACITOR COMBINATIONS ALSO TO MEET 300KVAR CAPACITY.			

QUALIFICATION CRITERIA
(300KVARAuto Power Factor Correction Panel)

Sl. NO	CRITERIA	VENDOR ACCEPTANCE / REMARKS
	Only those bidders, who have supplied at least 1 No. of Auto Power Factor Correction Panel of Similar capacity in the last 3 years (On the Date of Opening of tender), are eligible to quote.	
2	Along with the Offer the following information should be submitted by the vendor about the companies where similar Equipment has been supplied. 1. Name of the customer / company where installed. 2. Complete postal address of the customer. 3. Month & Year of supply 4. Name and designation of the contact person of the customer. 5. Phone, FAX no. and email address of the contact person of the customer. 6. Performance certificate from the customers regarding satisfactory performance of equipment supplied to them on Customer's Letter Head.	
3	Authorization certificate: Only the original equipment manufacturer Or their authorized Agents / distributors / dealers are eligible to quote. Along with the offer valid authorization certificate from the original equipment manufacturer should be submitted if the offer submitted by an Agent / distributor / dealers.	
4	Prove out: Consideration of offer will be subjected to end user's approval. Hence bidders should able to offer demo of the offered items at BHEL/ RANIPET on request for evaluation & end user approval.	
5	Catalogue & Drawings: The specification cum compliance certificate given in the annexure for the offered item should be duly filled & submitted along with the relevant catalogue & drawings for bid consideration.	
6	Performance Guarantee: The Performance of the equipment shall be guaranteed for a minimum period of 12 months from the date of Commissioning at BHEL works.	
7	Estimated delivery period: Delivery period for supply as 4 Weeks from the date of P.O	
8	Estimated commissioning period : commissioning period will be 15 days from Delivery	
9	Estimated commissioning Charges: Commissioning is supplier's scope no extra charges.	

NOTES:

1. Bidders shall note & clearly mention their acceptance / remarks for the criteria given above.
2. Duly filled copy of this format to be submitted along with the supporting documents for bid consideration.
3. After satisfactory fulfillment of all the above criteria / requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.