

FORGE SHOP MAINTENANCE POWER DISTRIBUTION PANEL Specification No.FF:17: MFG: RC: PDP: 03

POWER DISTRIBUTION PANEL OF 415V, 3PHASE, 4 WIRE SYSTEMS

TECHENICAL SPECIFICATIONS

S.No.	Technical details	Vendors confirmation
1.	The panel distribution board will consist of ACB housed in a sheet steel enclosure of thickness not less than 2mm. Suitable for three phase four wire system	
2.	Painted first with corrosion resistant paint and then with industrial grade grey paint and mounted on a suitable base frame	
3.	The frame is to be provided with suitable grouting arrangement for installing the panel in free standing installation at floor level & protection against rodent/repile entry	
4.	The panel should be spacious for maintenance & operation purposes	
5.	Panel should be designed for connecting the bus bars coming from transformer to the incomer section of the panel.	
6.	The panel is to be so designed to accommodate sufficient number of cables in outgoing sections of the panel	
7.	The panel should be provided with earthing bus bar & cooling arrangement (Net type).	
8.	The bus bars are to be sleeved with heat shrunk PVC.	

The panel distribution board will have following items.

INCOMER SECTION

SN	ITEM	QUANTITY	Vendors confirmation
1.	Air circuit breaker. 3200A, 415V, Four Pole, Short Circuit Breaking Capacity 65kA or higher, manual draw out type, Over Current Protection, Short circuit Protection, Earth fault protection & Shunt Trip	01 Nos.	
2.	Voltmeter: 500V, Analog, AE make	03 Nos.	
3.	Ammeter: 3200A, Analog, AE make	03 Nos.	
4.	Phase live indicators, High luminosity LED's	01 Set	
5.	Digital Energy Meter	01	

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OUT GOING SECTION:

This part will consist of Ten sections each of them having one ammeter with ammeter selection switch, Led Indicators and ACB (Three Pole) of rating mentioned below:

S.No.	ITEM	Quantity	Vendors confirmation
1.	Air circuit breaker. 800A, 415V, Three Pole, Short Circuit Breaking Capacity 50kA, Manual draw out type, Over Current Protection, Short circuit Protection, Earth fault protection & Shunt Trip. One ammeter with ammeter selection switch, Led Indicator for ON/OFF status.	10	

MAKE OF ITEMS

S.NO.	ITEM	MAKE/Description	Vendors confirmation
1.	AIR CIRCUIT BREAKER	SIEMENS/L&T.	
2.	VOLT METER/AMMETER	AE, 96 *96 Sq.mm., Analog	
3.	INDICATOR LED'S,	L&T/Siemens	
4.	CT	KAPPA/AE/Eng. Elect.(Cast Resin)	
5.	BUS BAR	Electrolytic Grade Aluminum, Current Density equal to less than 01A/Sq.mm.	
6.	AMMETER SELECTOR SWITCH.	SIEMENS/L&T/KAYCEE	
7.	DIGITAL ENERGY METER	SIEMENS,L&T,ABB,AREVA,SCHENI DER	

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General Specifications:

S.No.	Details	Vendors confirmation
1.	Panel Layout/scheme, wiring drawings, calculations, bill of material along with supporting data should be approved by BHEL before manufacturing. All drawings with complete details and supporting data should be submitted in one lot. Drawings submitted without site visit will not be accepted. Delay on account of incomplete drawing/data will be on vendors account. Time of approval will be two weeks.	
2.	Two hard bind copies (good quality prints) of final approved drawing to be dispatched with material. ACB operation and maintenance manual to be submitted with the drawings.	
3.	Inspection: Pre-Inspection of panel before dispatch.	
4.	Guarantee: Party to provide guarantee /warranty of 18 months from the date of dispatch or twelve months from date of receipt of material at CFFP, BHEL Haridwar.	
5.	Erection and Commissioning will be done by BHEL.	
6	This panel is to be used to replace the old panel. The size of panel, location of incoming bus bar, outgoing cables etc. should be designed to suit the existing location and arrangement. Size of existing panel is (1.310X1.242XD128) in mm. Hence the supplier is advised to visit the site before submitting the offer.	

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