



ISO 9001:2000
&14001:2004
MAHARATNA
COMPANY

MATERIAL MANAGEMENT (PURCHASE)
CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR
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Ref: FF/PPX/3006/Corrigendum /01

Dated: 10.09.2013

Subject : Corrigendum for technical specification .

With reference to tender Enquiry no - 3006P/360/3/0221P1 due on 25.09.2013 for Power distribution Panel. Technical specification of tender enquiry has been revised. Revised specification CDS/SMS-EXTN/2 MVA/ 02 Revision 01 dt 09.09.2013 is enclosed.

All the vendors are requested to submit their offer according to revised technical specification CDS/SMS-EXTN/2 MVA/ 02 Revision 01 dt 09.09.2013.

The vendor who has already submitted their quotation, they can submit their revised offer **in time** clearly indication **REVISED OFFER** on sealed envelope. In such cases only revised offer will be opened.

Thanking You,

Yours faithfully,
For & ON BEHALF OF CFFP/ BHEL, HARDWAR

Manoj Kumar Yadava
Sr Engineer (Purchase)

SPECIFICATION NO- CDS/SMS-EXTN/2 MVA/ 02, Revision-01, Date: 09.09.2013
TENDER NO: 3006P/360/3/0221P1, dated: 27.08.2013

3200A, 415V DISTRIBUTION BOARD (QTY- 1Nos)

1. The Power Distribution Board (PDB) should consist of ACBs (Only specified makes) housed in a sheet steel enclosure of thickness not less than 2 mm suitable for three phase four wire system.
2. PDB should be painted first with corrosion resistant paint and then with industrial grade grey paint and contain base frame suitable for floor mounting.
3. The frame is to be provided with proper sealing against rodent/ reptile entry.
4. The backside of the PDB should be provided with openable Door/ Doors.
5. The PDB is to be designed to accommodate 08 Nos (3.5Cx 300sq mm) cables for incomer of 3200 A and , 03 No (3.5Cx300 sq. mm) cables for each 800A outgoing feeder and 01 No (3.5Cx300 sq. mm) cable in each 400 A outgoing feeder. The PDB should have provision for entry of all the cables through detachable plates at the bottom.
6. The PDB should be provided with the earthing bus bar and suitable for natural air cooling arrangement (Preferably Net type).
7. There should be three sections in PDBs for housing incoming and outgoing ACBs/ Switches. The incoming feeder must be positioned as per the position indicated below and the overall height of PDB should not exceed 2300 mm.
8. All the bus bars should contain sleeves with heat shrunk PVC as per standard colour coding i.e. Red, Yellow, Blue for phases and Black for Neutral and the clearances of bus bars from each other and panel body should be as per relevant IS.

The PDB should have the following items

A) INCOMING FEEDER DETAILS

S.NO	ITEM	QTY
01	4 Pole, Air circuit breaker, 3200A, 415 V, manual draw out (MDO) type of breaking capacity at least 50 KA with guide frame and over current protection, short circuit protection, Earth fault protection & shunt trip.	01 Nos
02	Voltmeter :0- 500V analog	03 Nos
03	Ammeter: 0-3200 A, analog	03 Nos
04	Phase live indicator, High luminosity LED's.	06 Nos
05	Fuse-2A with base.	09 Nos
06	Current Transformer of ratio 3200/5A	03 Nos
07	Digital Energy meter	01 No

B) OUTGOING FEEDER DETAILS:

Outgoing feeder shall include :

i) 6 No feeders of 800A ii) 2 No feeders of 400 A.

i) 800A OUTGOING FEEDER DETAILS:

S.NO	ITEM	QTY
01	4 Pole, Air circuit breaker, 800A, 415 V, manual draw out (MDO) type of breaking capacity at least 50KA with guide frame, overload / instantaneous short circuit / delayed short circuit / ground fault protection.	06 Nos
02	Indicating Light	18 Nos
03	Fuse-2A with base	18 Nos
04	Analog Ammeter with selector switch (0-800 A)	06 Nos
05	Current Transformer of ratio 800/5A	18 os

ii) 400A OUTGOING FEEDER DETAILS:

S.NO	ITEM	QTY
01	4 Pole, 415 Volts, 400A MCCB unit of breaking capacity at least 36 KA with indicating LED	02 Nos

Preferable Make of Items:

S.NO	ITEM	MAKE/DESCRIPTION
01	Air circuit Breaker, MCCB.	L&T or SIEMENS Microprocessor based
02	Voltmeters & Ammeters	AE, 96*96sq mm, Analog
03	Indicators LED's	L&T/SIEMENS
04	Current Transformers	KAPPA/AE/ENG ELECTRIC
05	Bus bars	Aluminium
06	Ammeter selector switch	L&T/SIEMENS/KAYCEE
07	Digital Energy meter	Conzerv/ Schneider/ L&T

POSITIONING OF ACBs / MCCBs

ACB 800 A, 4P		MCCB 400 A, 4P		MCCB 400 A, 4P
ACB 800 A, 4P		ACB 800 A, 4P		ACB 800 A, 4P
ACB 800 A, 4P		ACB for Incomer 3200 A, 4P		ACB 800 A, 4P

A.R.IDRISI
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IMRAT SINGH
Sr. MANAGER-CDS