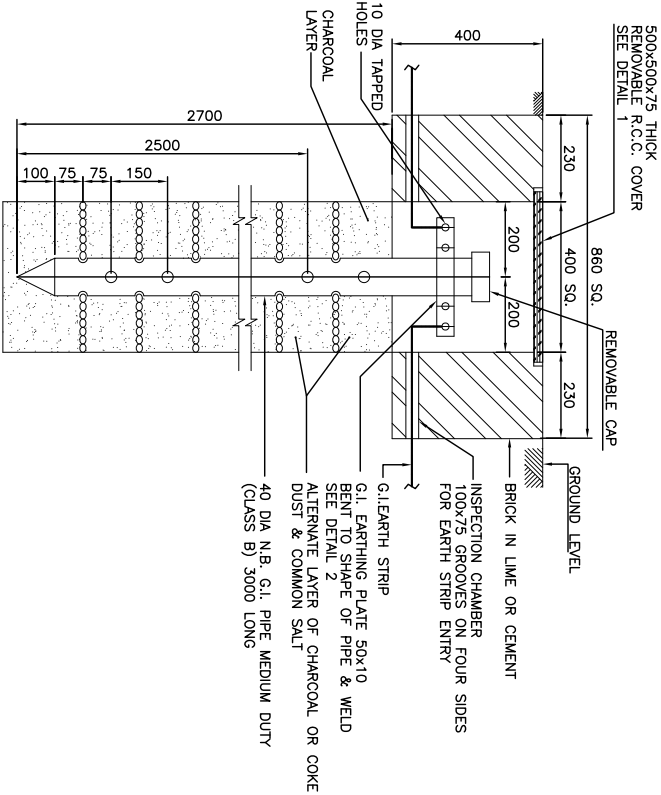
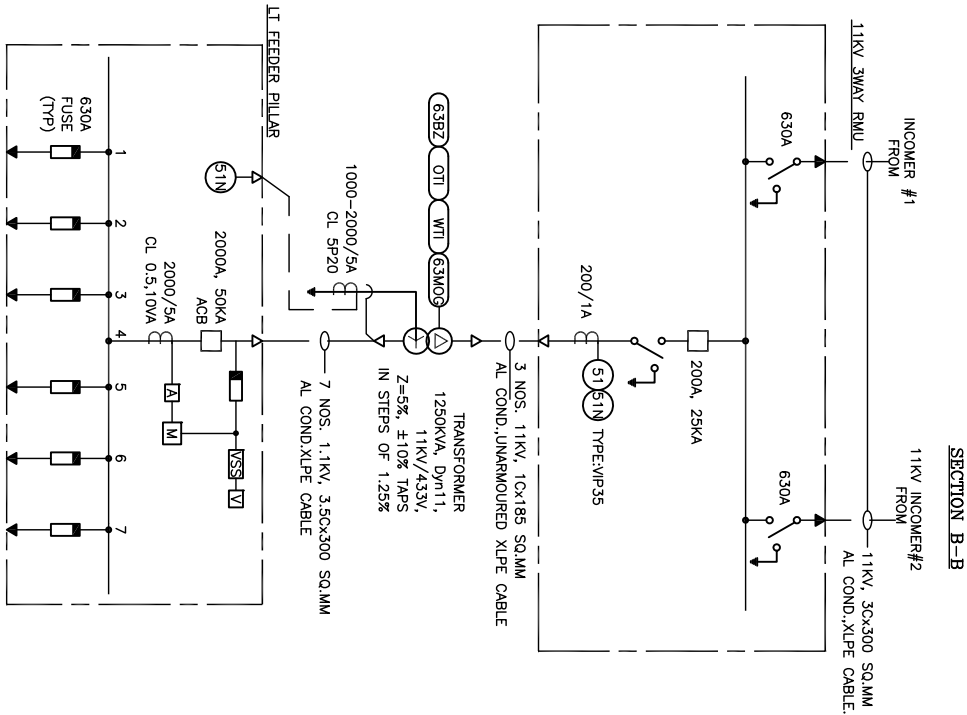
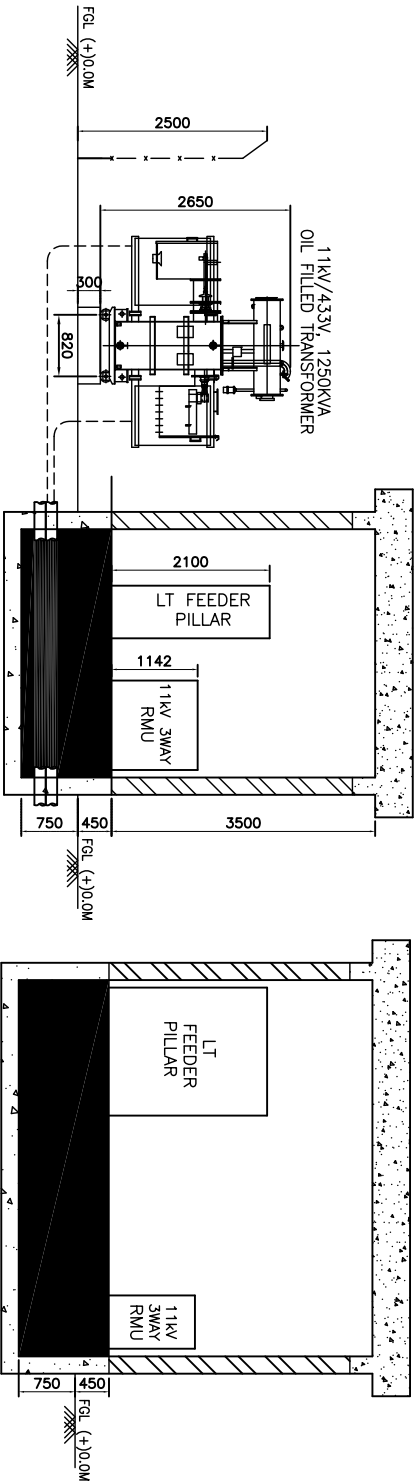
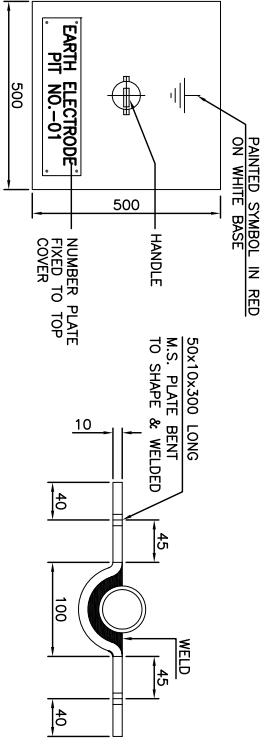


PIT NO.	PURPOSE
1	TRANSFORMER BODY
2	TRANSFORMER NEUTRAL
3	HV SYSTEM
4	LV SYSTEM
5	TRANSFORMER NEUTRAL
6	TRANSFORMER BODY



EARTHING ELECTRODE (TREATED & UNTREATED TYPE)
FOR EARTHING ELECTRODE (UNTREATED TYPE) FOLLOWING SHALL NOT BE PROVIDED
1) REMOVABLE RCC COVER
2) INSPECTION CHAMBER
3) ALTERNATE LAYER OF CHARCOAL OR COKE DUST & COMMON SALT

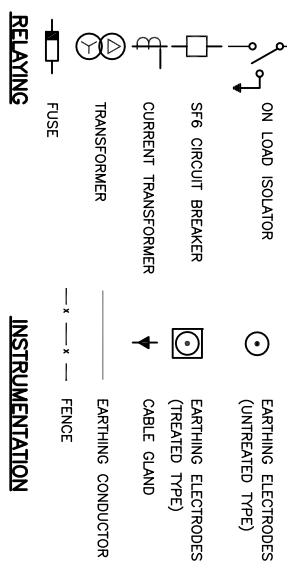


BILL OF MATERIAL

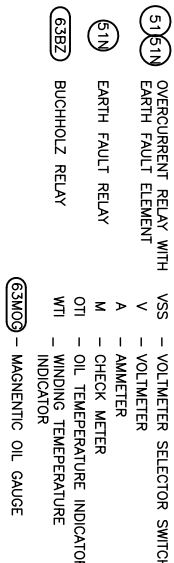
SR NO.	DESCRIPTION	QUANTITY
1)	11KV RING MAIN UNIT (3WAY) MAKE:- SCHNEIDER.	1NO.
2)	11KV/433V, 1250KVA OIL FILLED TRANSFORMER MAKE:- KIRLOSKAR.	1NO.
3)	LT FEEDER PILLAR 6WAY 2000A ACB I/C 6NO.	1NO.
4)	11KV 3Cx240 SQ. MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMoured CABLE.	BY TPCL
5)	11KV 1Cx120 SQ. MM ALUMINIUM CONDUCTOR XLPE INSULATED. UNARMoured CABLE.	40M
6)	1.1KV 3.5Cx300 SQ. MM ALUMINIUM CONDUCTOR XLPE INSULATED ARMoured CABLE.	65M
7)	1.1KV 4Cx4 SQ. MM COPPER CONDUCTOR XLPE INSULATED ARMoured CABLE.	20M
8)	EARTHING CONDUCTOR 50x10 MM GS FLAT	70M
9)	EARTHING ELECTRODE (TREATED TYPE)	2NO.
10)	EARTHING ELECTRODE (UNTREATED TYPE)	4NO.

KEY PLAN

LEGEND:-



RELAYING



NOTES:-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - 2) EARTHING CONDUCTOR LAYOUT SHOWN IS DIAGRAMATIC ONLY. LOCATION OF EARTHING CONDUCTOR & EARTH ELECTRODES MAY BE CHANGED TO SUIT SITE CONDITIONS.
 - 3) EARTHING CONDUCTOR IN OUTDOOR AREA SHALL BE BURIED MINIMUM 600 MM BELOW GROUND LEVEL.
 - 4) METALLIC FENCES, GATES SHALL BE CONNECTED TO NEARBY EARTHING GRID.
 - 5) 50 x 10 MM GS CONDUCTOR SHALL BE USED FOR EARTHING. EARTHING SHALL BE STRICTLY DONE IN ACCORDANCE WITH IS 3043.
 - 6) ADDITIONAL EARTH PITS SHALL BE PROVIDED TO BRING OVERALL GRID RESISTANCE WITHIN SATISFACTORY LIMITS.
 - 7) METALLIC SHEATHS, SCREENS & ARMOUR OF ALL MULTICORE CABLES SHALL BE EARTHED AT BOTH EQUIPMENT & SWITCHGEAR END.
 - 8) 11KV & 415V CABLES SHALL BE LAID IN TRENCHES WHEREVER AVAILABLE. THEY SHALL BE DIRECTLY BURIED BELOW GROUND LEVEL AT MINIMUM DEPTH OF 1050MM & 900MM RESPECTIVELY WHERE TRENCHES ARE NOT AVAILABLE.
 - 9) TRANSFORMER WEIGHT WITH O/L 6100KG OIL QUANTITY-1640 LITRES.
 - 10) PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AS TAC GUIDELINES.
 - 11) ACB SHALL BE PROVIDED WITH ELECTROMAGNETIC OVERLOAD SHORTCIRCUIT & EARTH FAULT RELEASES.
 - 12) SUPPORTING DETAILS OF RMU PANEL, FEEDER PILLAR & TRANSFORMER FOUNDATION WILL BE FURNISHED BY CIVIL.
- ENGINEERING REFERENCE DRAWINGS :-**
- 1) GENERAL ASSEMBLY OF TRANSFORMER - DRG. NO. 34169306 KIRLOSKAR MAKE (SH 1 OF 2)

THE TATA POWER COMPANY LTD
MUMBAI

STANDARD SUBSTATION LAYOUT FOR
11KV/433V, 1250KVA OIL FILLED TRANSFORMER
EQUIPMENT GA, EARTHING & CABLING LAYOUT

DATE	REV.	ISSUED FOR COMMENTS	REV.	CHKD.	APPD.
31.07.09	NO				

DESIGN	GCY	31.07.09
CHECKED	NCP	31.07.09
APPROVED	HDT	31.07.09
BY	DATE	

DRAWING NUMBER:	D-CD-1049PL
JOB NUMBER	SCALE: 1 : 50
REV.	SHEET: 01 OF 01
0	