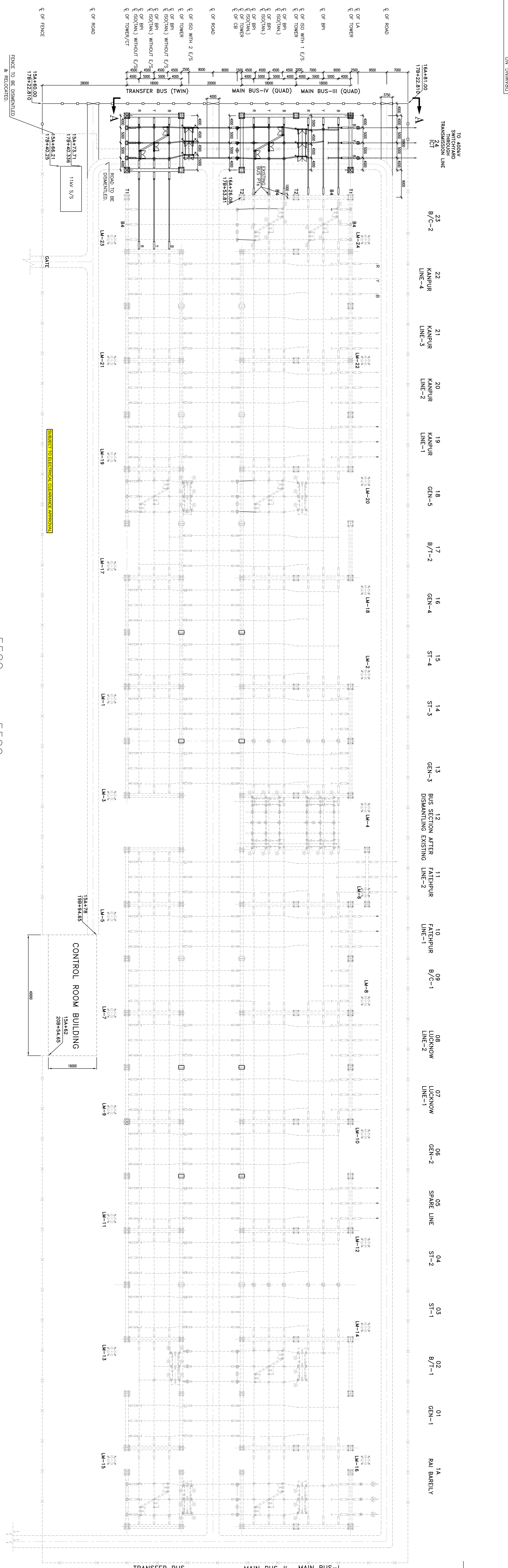
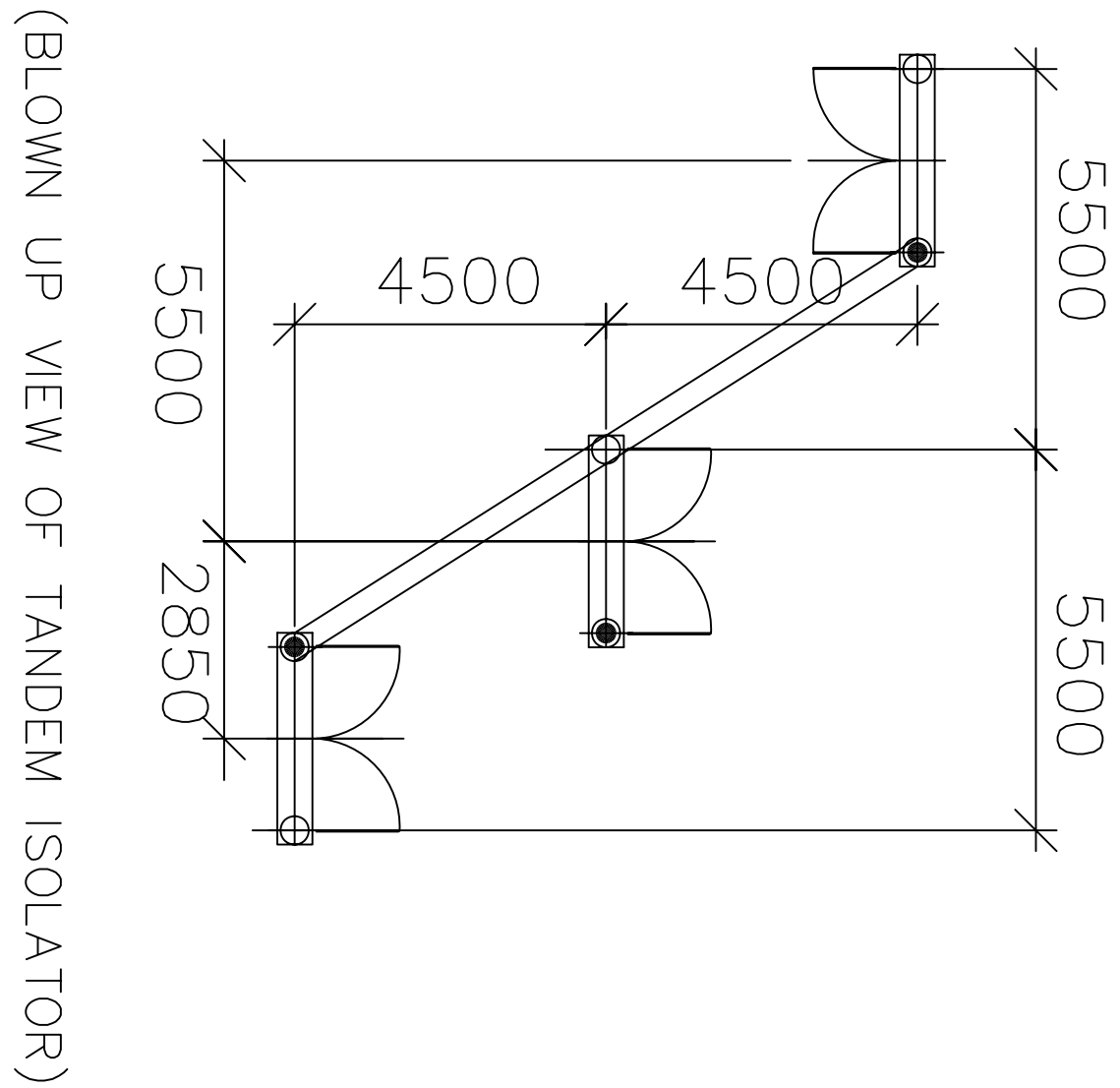




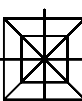
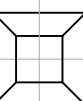
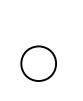
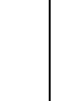
SYSTEM PARAMETERS

S.No.	DESCRIPTION OF PARAMETER	220kV SYSTEM
1	SYSTEM OPERATING VOLTAGE	220kV
2	MAX. OPERATING VOLTAGE OF THE SYSTEM (rms)	245kV
3	RATED FREQUENCY	50Hz
4	NO. OF PHASES	3
5	RATED INSULATION LEVELS i) FULL WAVE IMPULSE WITHSTAND VOLTAGE (1/2/50microsec.) ii) SWITCHING IMPULSE WITHSTAND VOLTAGE (250/2500microsec.) DRY & WET iii) ONE MINUTE POWER FREQUENCY DRY & WET WITHSTAND VOLTAGE (rms)	± 1050kVp - 460kV (rms)
6	CORONA EXTINCTION VOLTAGE (MM)	320kV
7	MAX. RADIO INTERFERENCE VOLTAGE FOR FREQUENCY BETWEEN 0.5MHz & 2MHz AT 267kV rms	1000 microV
8	MIN. CREEPAGE DISTANCE	25MM /KV (6125 MM)
9	MIN. CLEARANCE i) PHASE TO PHASE ii) PHASE TO EARTH iii) SECTIONAL CLEARANCE	2100MM 2100MM 5000MM
10	RATED SHORT CIRCUIT CURRENT FOR 1SEC DURATION	40kA
11	SYSTEM NEUTRAL EARTHING	EFFECTIVELY EARTHED
12	SUB CONDUCTOR SPACING	250MM
13	CONDUCTOR STATIC TENSION 220kV TWIN 400kV QUAD	TO BE MATCHED WITH EXISTING.
14	MAIN BUS III & IV	QUAD MOOSE
	TRANSFER BUS	TWIN ACSR MOOSE
15	JACK BUS	TWIN ACSR MOOSE
	EQUIPMENT INTER CONNECTION	4" AL TUBE/ (TWIN) ACSR MOOSE
15	MAIN BUS BAR & EQUIPMENT CONNECTION LEVEL. (FROM PLINTH)	6000MM

SYMBOL	EQUIPMENT
	220KV, 1600A, 40KA FOR 1s, 3-PH CIRCUIT BREAKER
	220KV, 1600A, 40KA FOR 1s, 3-PH HCB ISOLATORS MOTOR OPERATED & MECH. GANGED WITH 1 E/S LOCALLY MOTOR OPERATED & MECH. GANGED.
	220KV, 1600A, 40KA FOR 1s, 3-PH HCB ISOLATORS MOTOR OPERATED & MECH. GANGED WITH 2 E/S LOCALLY MOTOR OPERATED & MECH. GANGED.
	220KV, 1600A, 40KA FOR 1s, 3-PH, STAGGERED HCB ISOLATORS MOTOR OPERATED & MECH. GANGED WITHOUT E/S.
	220KV, 1600A, 40KA FOR 1s, 1-PH, 5-CORE CURRENT TRANSFORMER WITH 120s EXTENDED CURRENT RATING
	216 kV, 10kA, 1-PH SURGE ARRESTER
	220 kV, 6kN, 1 PHASE, SOLID CORE BUS POST INSULATOR



LEGEND : 220 kV EQUIPMENTS

	TOWER WITH PEAK
	TOWER WITHOUT PEAK
	SUSPENSION INSULATOR STRING (15 DISCS PER STRING SET)
	TENSION INSULATOR STRING (15 DISCS/1 TENSION INSULATOR STRING)
	AL. TUBE
	ACSR MOOSE CONDUCTOR
	END CAP/CORONA BELL FOR BUSBAR
	SHIELD WIRE
EXISTING/ FUTURE/ NOT IN BHCL SCOPE.	

NOTES:

1. ALL DIMENSIONS ARE IN MM.
2. ALL STRUCTURE/CONDUCTOR HEIGHTS ARE ABOVE PLINTH LEVEL. PLINTH LEVEL SHALL BE MATCHED WITH EXISTING PLINTH LEVEL.
3. TYPE OF GANTRY STRUCTURES SHALL BE AS PER APPROVED STRUCTURAL LAYOUT DRAWING.
4. SA PRESSURE RELIEF VALVE SHALL NOT BE TOWARDS TRANSFORMER SIDE / ANY EQUIPMENT KEPT NEAR LIGHTING ARRESTER
5. RL OF FGL IN 220KV SWITCHYARD AREA – 106.5M.

[illegible]

PROJECT: PERDZE GANDHI STAGE- IV, 13500MW NBPLD DRG. No. 1450-001-R-SWD-PVE-F-002									
REFERENCE: PE-DG-041-100-M001 Rev. 03 (PLOT PLAN)									
NTPC DRG. No. 1450-001-R-SWD-PVE-F-002									
OWNER: NTPC LTD. 16, CHANDROSS RD, NEW DELHI-110029									
ECG NUMBER: NTPC BHE Power Projects Private Limited 14, JALALI BOUTIQUE COMPANY OF NTPC & BHE LTD. V.S. PAVAN, VILLAGES MANEMARANGI, SUBDISTRICT MANDAL, DIST. CHITTOOR - 517020 (A.P.)									
ORIGINAL: TRANSMISSION BUSINESS GROUP Y.S. PAVAN, VILLAGES MANEMARANGI, SUBDISTRICT MANDAL, DIST. CHITTOOR - 517020 (A.P.)									
DESIGN: TRANSMISSION BUSINESS GROUP Y.S. PAVAN, VILLAGES MANEMARANGI, SUBDISTRICT MANDAL, DIST. CHITTOOR - 517020 (A.P.)									
TITLE: 220KV Layout Plan & Section									
DEPT. SCALE: DRAWING NO.									

