

CLARIFICATION/ COMPLIANCE REPORT

400 kV Switchyard at Panki Thermal Power Project (1 X 660 MW)

DRG. CONCEPTUAL CONTROL ROOM BUILDING LAYOUT FOR 400KV SWITCHYARD

DRG NO. 9962-001-TB--572-PE-F-186

SL. NO.	CONSULTANT COMMENTS	BHEL COMPLIANCE/ CLARIFICATION
DCPL comments dtd. 31.01.19		
1	Indicate 'KEY PLAN' & 'NORTH'.	Noted & incorporated in revised drawing.
2	Indicate Grid & Row marking, Column locations and co-ordinate	Noted & incorporated in revised drawing.
3	Indicate FFL/FGL.	Noted & incorporated in revised drawing.
4	For finalizing room size, minimum clearance shall be maintained as per cl. no. 11.03.00 of electrical specification CH-01. VOL-IV.	Noted & incorporated in revised drawing.
5	Transformers should be located at both side of ACDB for easy busduct connection.	Transformer to 415V SWYD PMCC connection will be done using cables and busduct connection is not required. Further, in view of the size of PMCC the proposed arrangement may kindly be approved.
6	Clearance of panels from nearby wall shall be 1500 (min).	Noted & incorporated in revised drawing.
7	Indicate dimensions of Battery sets.	Noted & tentative dimensions incorporated in revised drawing.
8	Provide a door as marked in Battery Room. The door shall be consists of louver with wire mesh guard.	Door in Battery Room is already provided on Passage side. The side where door is asked for is Outer side of Building & there is no Switchyard road on that side of building. The door details provided in all rooms will be shown in civil drawings.
9	Show steps. Door shall open outside.	Noted. All exit/ entry doors of building shall open on outside & shall be provided with steps. Drawing revised accordingly.
10	Provide a door with double leaf in Relay Room.	Noted & incorporated in revised drawing.
11	Panel nos. & dimensions shall be indicated in this layout for checking clearance. This layout will be finalized after approval of panel drawings.	Control & relay panels are BHEL Bhopal supply & panel dimensions are standard. PMCC, DCDB, Battery & Battery Charger sizes are already considered on higher side. As all panel document approval will take long time & this drawing is meant for input to civil, the revised drawing may kindly be approved to start further activities.
NTPC comments dtd. 06.02.19		
1	Mark coordinates.	Noted & incorporated in revised drawing. Co-ordinate of one corner of building marked in revised drawing.
2	Show key plan.	Noted & incorporated in revised drawing.
3	Include Porch at entrance.	Noted & incorporated in revised drawing. The road arrangement in front of CRB is also revised as per the discussions at NTPC office.
4	REPLAN THE SPACES SO THAT ALL MANNED AREAS SHALL GET NATURAL LIGHT	Noted & incorporated in revised drawing.
5	ACCESS TO STORE SHALL BE FROM INSIDE AND NOT FROM OUTSIDE	Noted & incorporated in revised drawing.
6	SPACE FOR WATER COOLER	Toilets arrangement changed as per marked comments & space for water cooler also provided in revised layout.
7	THE GRID SYSTEM IN THE BUILDING SHALL BE UNIFORM	Grid & column marked in the revised drawing. Other details will be shown in the civil drawings of Control Room Building.
8	Height of False Ceiling shall be 3500mm.	As per clause no. 6.5, chapter-06, volume-VI of contract specification, minimum false ceiling height in office areas shall be 2400mm. We are already providing 3000mm which is a standard practice for Switchyard Control room building rooms with false ceiling and is sufficient for maintaining panels in all rooms.



