

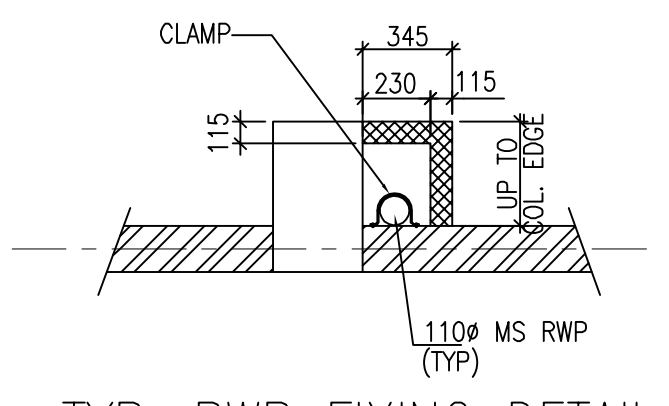
TATA CONSULTING ENGINEERS LIMITED
VENDOR DRAWING STATUS

CATEGORY	DESCRIPTION
<input type="checkbox"/> CAT-1	Drawing/documents approved for final distribution. BHEL will proceed with manufacturing/fabrication/construction.
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Reviewed byDate.....

WATER PROOFING ON ROOF:
HIGH SOLID CONTENT LIQUID APPLIED ELASTOMERIC WATER PROOFING MEMBRANE WITH SEPARATE WEARING COURSE AS PER ASTM C -898. THICKNESS OF THE MEMBRANE SHALL BE 1.5 MM. THIS TREATMENT SHALL INCLUDE APPLICATION OF POLYMERISED MASTIC OVER THE ROOF TO ACHIEVE SMOOTH SURFACE AND PRIMER COAT. WEARING COURSE ON THE TOP OF MEMBRANE SHALL CONSIST OF 40MM. THICK PCC (1:2:4) CAST IN PANELS OF MAX. 1200x1200 SIZE AND REINFORCED WITH 0.56 MM. DIA. GALVANIZED CHICKEN WIRE MESH AND SEALING OF JOINTS USING SEALING COMPOUND/ ELASTOMETRIC WATER PROOFING MEMBRANE.



- NOTES:-
- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - 2 ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
 - 3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.

REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD

JOB NO.	CONTRACT
STATUS	DISTRIBUTION
REV. R1	DATE 24.09.19
ALTD	TKR
CHD	DKU
APPD	AG

PROJECT

CUSTOMER

CONSULTANT

2X660 MW UDANGUDI SUPERCRITICAL TPS, STAGE-I

TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED (TANGEDCO)

TATA CONSULTING ENGINEERS LIMITED

BHARAT HEAVY ELECTRICALS LTD

TRANSMISSION BUSINESS GROUP

NODA

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DEPT

SRN

CHD

APPD

NAME

TYKR

SS

DKU

AG

SIGN

DATE

14.08.19

14.08.19

14.08.19

14.08.19

TITLE

ARCHITECTURAL DRAWING CONTROL ROOM BUILDING (PLAN)

DEPT

SCALE

1:75

DRAWING NO.

TB-1-400-607-620-1

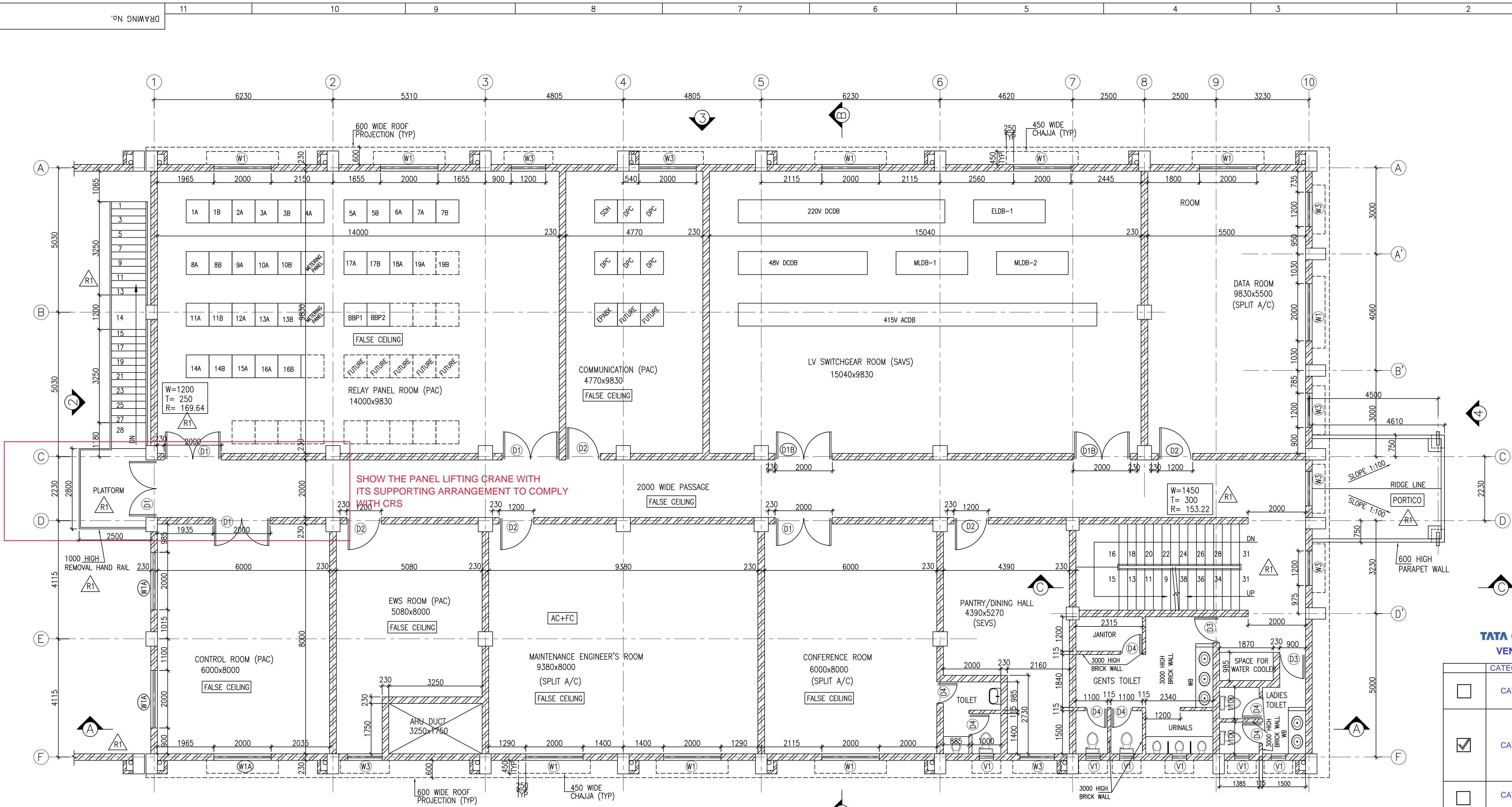
SHEET 01 OF 03

REV.

01

GROUND FLOOR PLAN

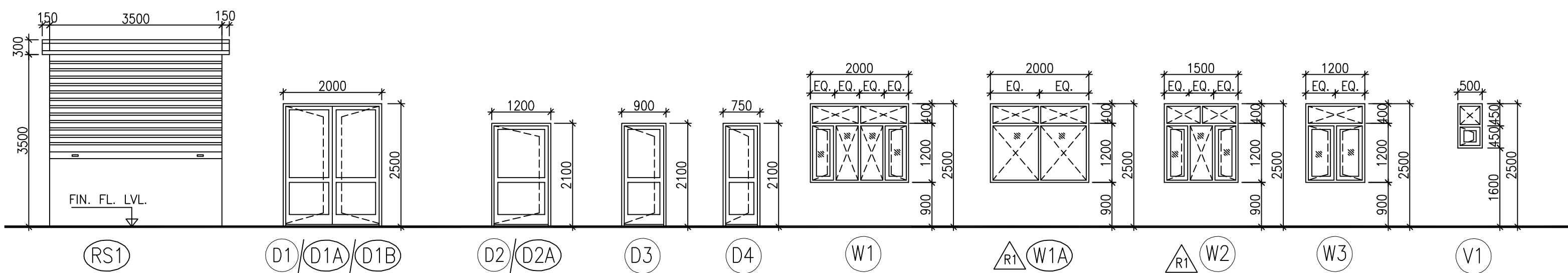
TYP. RWP FIXING DETAIL



FIRST FLOOR PLAN

SCHEDULE OF DOORS & WINDOWS (AS PER TECHNICAL SPECIFICATION)

TYPE	OPENING SIZE	CILL LEVEL	LINTEL LEVEL	NOS.	DESCRIPTION
RS1	3500x3500	-	3500	1	STEEL ROLLING SHUTTER
D1	2000x2500	-	2500	8	DOUBLE SHUTTER ALUMINIUM GLAZED DOOR AS PER SPECS.
D1A	2000x2500	-	2500	2	DOUBLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
D1B	2000x2500	-	2500	2	DOUBLE SHUTTER FIRE PROOF STEEL FRAME DOOR AS PER SPECS.
D2	1200x2500	-	2500	7	SINGLE SHUTTER ALUMINIUM GLAZED DOOR AS PER SPECS.
D2A	1200x2500	-	2500	2	SINGLE SHUTTER FIRE PROOF STEEL FRAME DOOR AS PER SPECS.
D3	900x2100	-	2100	4	SINGLE SHUTTER PVC DOOR FRAME AS PER SPECS.
D4	750x2100	-	2100	12	SINGLE SHUTTER PVC DOOR FRAME AS PER SPECS.
W1	2000x1600	900	2500	18	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW AS PER SPECS.
W1A	2000x1600	900	2500	3	FIX TYPE ALUMINIUM FRAME GLAZED SHUTTER WINDOW AS PER SPECS.
W2	1500x1600	900	2500	2	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW AS PER SPECS.
W3	1200x1600	900	2500	12	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW AS PER SPECS.
V1	450x900	1600	2500	11	PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER VENTILATOR AS PER SPECS.



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
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VENDOR DRAWING STATUS

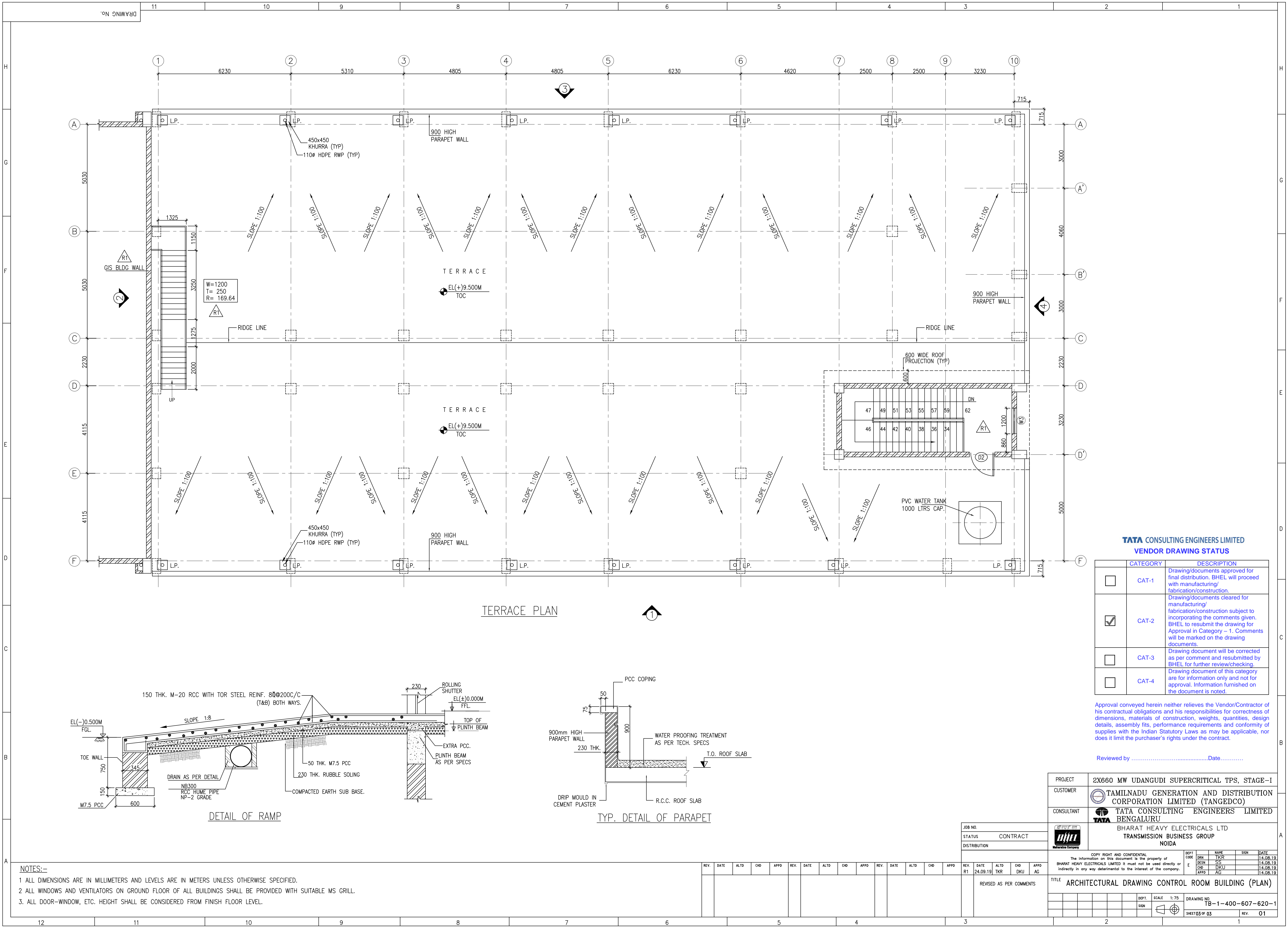
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Reviewed byDate.....

REFER COMMENTS MADE IN SH-1

PROJECT	2X660 MW UDANGUDI SUPERCRITICAL TPS, STAGE-1										
CUSTOMER	 TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED (TANGEDCO)										
CONSULTANT	 TATA CONSULTING ENGINEERS LIMITED BENGALURU										
 Bharat Heavy Electricals Limited	BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA										
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DEPT CODE		NAME		SIGN		DATE					
E ORN		TKR				14.08.19					
DES		SS				14.08.19					
CDP		DKU				14.08.19					
APPD		AG				14.08.19					
TITLE ARCHITECTURAL DRAWING CONTROL ROOM BUILDING (PLAN)											
				DEPT.	SCALE	1:75		DRAWING NO.			
				SIGN				TB-1-400-607-620-1			
								SHEET 02 OF 03			
								REV.		01	






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400 KV SWITCHYARD AT UDANGUDI SUPERCRITICAL TPS STAGE-I (2X660 MW)		
Clarification for & ARCHITECTURAL DRAWING CONTROL ROOM BUILDING (PLAN)		
BHEL Ref. No.: CLAR/PNK/24.09.19		
BHEL DWG/DOC NO.:	TB-1-400-607-620-1	DATE OF SUBMISSION OF REVISED DOCUMENTS
DWG/DOC NAME:	ARCHITECTURAL DRAWING CONTROL ROOM BUILDING (PLAN)	24.09.19
SL. NO.	Comments From TCE	BHEL Clarifications.
1	FURNISH KEY PLAN	Incorporated
2	FOLLOWING ITEMS TO BE PROVIDED AS PER SPECIFICATION ENGINEERING ROOM,TARIFF METERING ROOM	Engineering room is already provided on first floor marked as EWS room (Engineering workstation room). We are placing 2 no. Tariff metering panels in Relay panel room only hence no separate room is required. This is already approved in conceptual control room building layout: TB-2-400-316-004-Rev 01.
3	LIFTING ARRANGEMENT FOR PANELS ON FIRST FLOOR WITH HATCH OPNG.	Lifting arrangement provided in revised drawing. Panels can be lifted using EOT crane and unloaded on platform at grid 1 between C & D.
4	CONTROL ROOM ON SWITCHYARD SIDE TO HAVE FIXED WINDOWS	Incorporated
5	CHECK AND CONFIRM THAT ALL REQUIREMENTS, FIXTURES, TYPES AND FINISHES ARE AS PER SPECIFICATION REQUIREMENT	Confirmed
6	FINISH SCHEDULE IS MISSING	Finishing schedule shall be submitted separately with drg no-TB-1-400-607-621
7	DOOR & WINDOW -CHECK&CONFIRM THAT THIS MEETS THE SPECIFICATION REQUIREMENTS	Confirmed
8	AIR CONDITIONED AREAS TO HAVE AIR TIGHT LOBBY AND SLIDING DOOR	Air tight lobby with sliding doors are used only where the complete building is centralised air conditioned and frequent open/closing of main entrance doors of relatively bigger size due to which bigger volume of air change happens between air conditioned atmosphere and outside environment. Hence this concept is not applicable for switchyard control building where we have ductable Package AC unit for relay panel room, EWS and Communication room at first floor & nowhere these areas are directly exposed to outside atmosphere. Hence we have provided air tight doors as per standard practice. Also all the air conditioned related design to meet required temperature & humidity shall be done accordingly with sufficient margin and performance of the same shall be guaranteed during PG test separately
TANGEDCO COMMENTS		
1	Passage width shall be 2.1m	Passage width Shall remain 2.0 m .Matter has been discussed with customer over phone
2	Staircase rise shall be 150mm and thread 300mm and width of flight shall be 1500	Incorporated.
3	Battery room shall be provided with exhaust and ventilator	Incorporated.
4	Provide 2 nos of windows of 1.5m width in battery room	Incorporated.