



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 05

Ref: PSER:SCT:RKL-M1802:TCN-05

Date: 10-03-2017

Sub	Tender Change Notice (TCN) - 05	
Job	Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning, Etc Of Ventilation System For 1x250 MW Units At PP-II Expansion, NSPCL, Rourkela, Odisha.	
Ref	1.0	Tender no PSER:SCT: RKL-M1802:17
	2.0	BHEL's NIT, vide reference no PSER:SCT: RKL-M1802:17:5440, Dated 30/01/17
	3.0	BHEL's TCN-01 ref PSER:SCT:RKL-M1802:TCN-01 dated 10/02/17
	4.0	BHEL's TCN-02 ref PSER:SCT:RKL-M1802:TCN-02 dated 22/02/17
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:RKL-M1802:TCN-03, Dated 27/02/17
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:RKL-M1802:TCN-04, Dated 04/03/17
	7.0	All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting the offer.

- 1) Clarifications to bidder's queries is attached at Annexure-A.
- 2) **Architectural drg. of Control building** is attached herewith alongwith this TCN-05.
- 3) Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
- 4) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

Dy Mgr (SCT)

Encl: As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : (033) 23398000/ 23398231

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning, Etc Of Ventilation System For 1x250 MW Units At PP-II Expansion, NSPCL, Rourkela, Odisha.	
Ref	1.0	Tender no: PSER:SCT: RKL-M1802:17
	2.0	BHEL's NIT, vide reference no PSER:SCT: RKL-M1802:17:5440, Dated 30/01/17
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:RKL-M1802:TCN-01, Dated 10/02/17
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:RKL-M1802:TCN-02, Dated 22/02/17
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:RKL-M1802:TCN-03, Dated 27/02/17
	6.0	BHEL's TCN-04, vide reference no PSER:SCT:RKL-M1802:TCN-04, Dated 04/03/17
	7.0	BHEL's TCN-05, vide reference no PSER:SCT:RKL-M1802:TCN-05, Dated 10/03/17
	8.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted/uploaded offer/documents in accordance with tender instructions with acceptance of the terms & conditions of the tender by us and as per aforesaid references.

Thanking you,

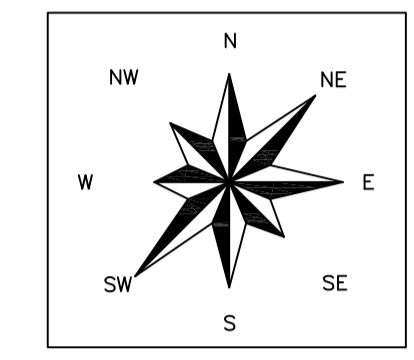
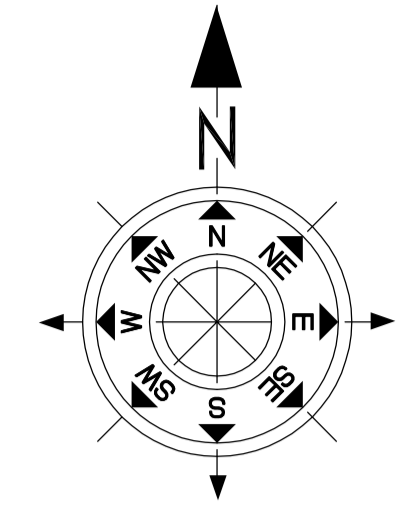
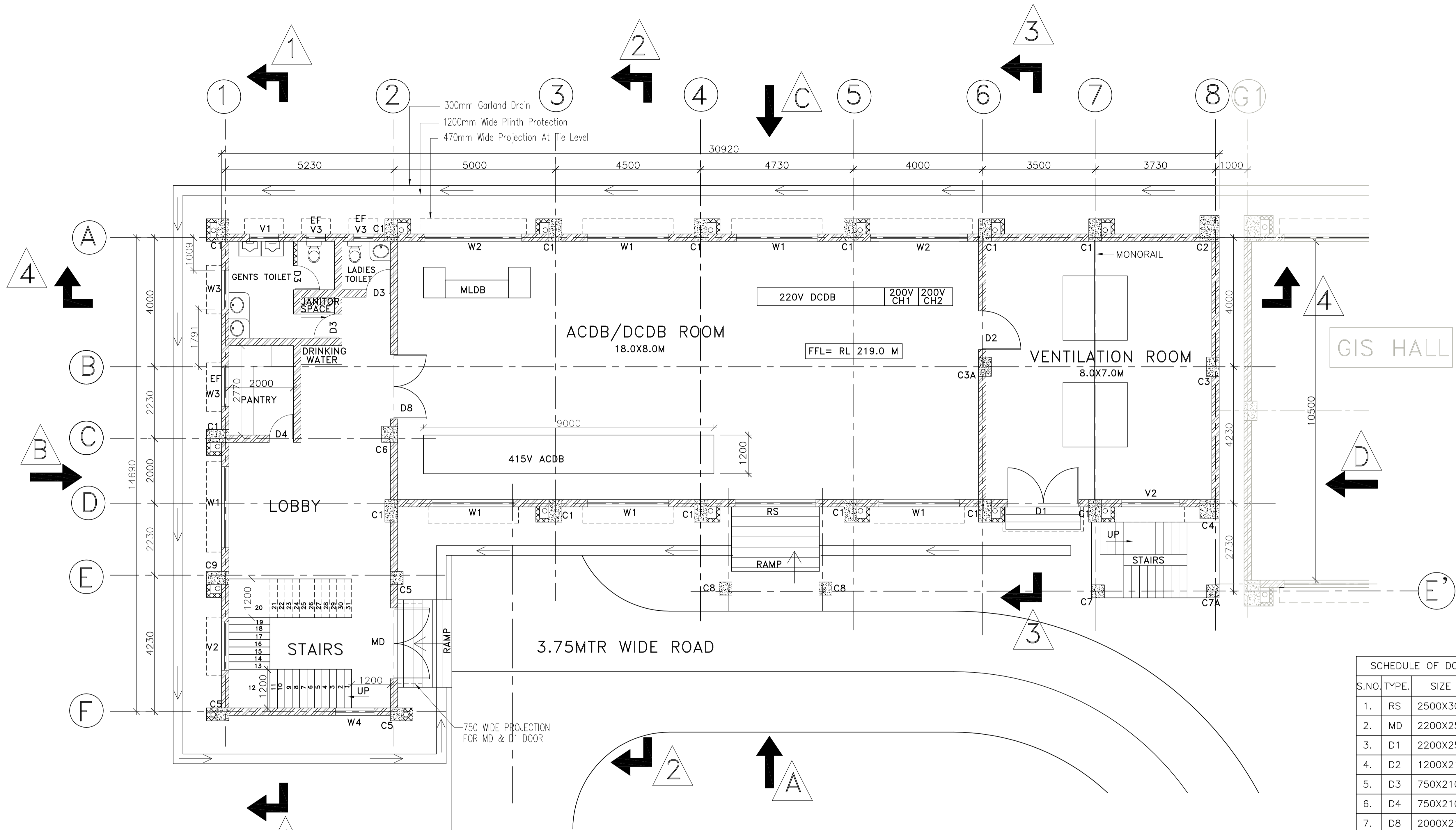
Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION DJ-9/1, SECTOR-II, SALLAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : (033) 2339-8000/ 2339-8231



GROUND FLOOR PLAN

RL 219.0M

SCHEDULE OF DOOR & WINDOW OPENING						
S.NO.	TYPE.	SIZE	SILL LVL.	LINTEL LVL.	QTY.	DESCRIPTION
1.	RS	2500X3000	--	3000	1	ROLLING SHUTTER
2.	MD	2200X2500	--	2500	1	AL DOUBLE SHUTTER DOOR
3.	D1	2200X2500	--	2500	1	STEEL DOOR
4.	D2	1200X2100	--	2100	2	FIRE PROOF DOOR
5.	D3	750X2100	--	2100	3	FRP DOOR
6.	D4	750X2100	--	2100	1	WOODEN FLUSH DOOR
7.	D8	2000X2100	--	2100	1	WOODEN FLUSH DOOR
8.	W1	2500X1200	900	2100	6	AL WINDOW SLIDING
9.	W2	3000X1200	900	2100	2	AL WINDOW SLIDING
10.	W3	1200X1200	900	2100	2	AL WINDOW OPENABLE
11.	EF	--	--	--	3	AS PER SPEC
12.	V1	900X600	--	3000	1	FIXED AL FRAMED
13.	V2	1500X600	--	3500	2	FIXED AL FRAMED
14.	V3	600X600	--	3000	2	FIXED AL FRAMED

LEGENDS :-

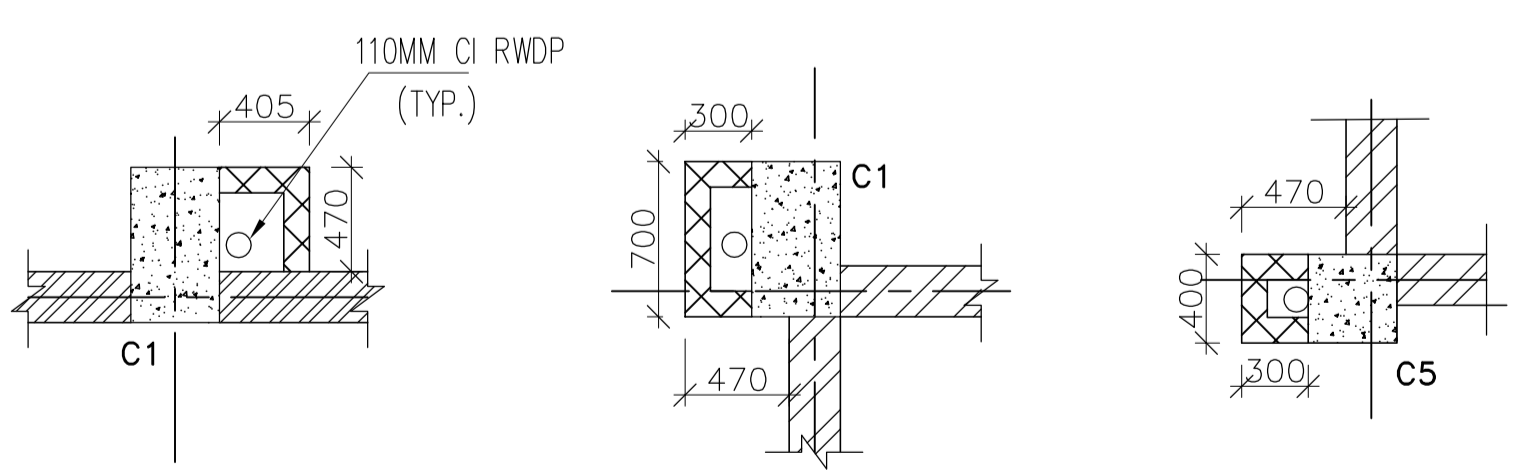
	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
EF	EXHAUST FAN
FGL	FINISHED GROUND FLOOR
FFL	FINISHED FLOOR LEVEL
THK	THICKNESS
TOP	TOP OF PARAPET WALL
TOC	TOP OF CONCRETE

GENERAL NOTES :-

- ONLY WRITTEN DIMENSION SHALL BE FOLLOWED DO NOT SCALE THE DRAWING.
- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN MTR UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSION SHALL BE CHECKED AND VERIFIED AT SITE. IN CASE OF ANY DISCREPANCY INFORM ENGINEERING BEFORE EXECUTION.
- FGL CORRESPONDES RL 218.5M.

REFERENCE DRGS :-

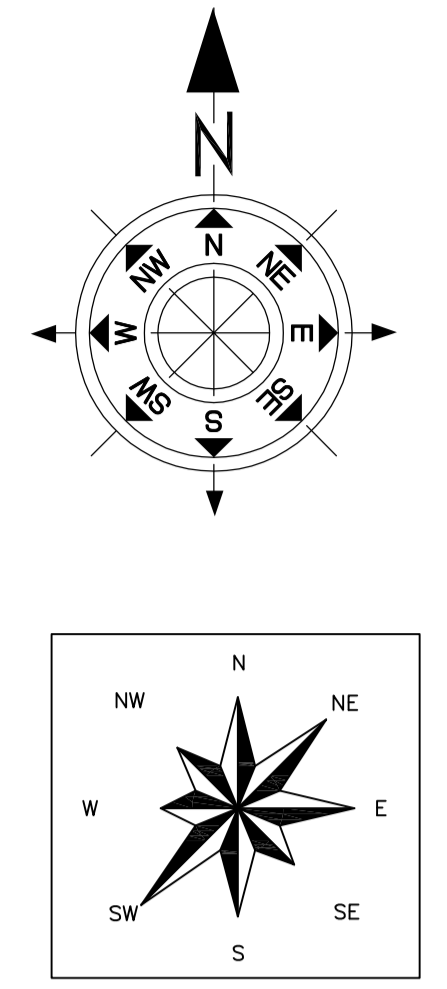
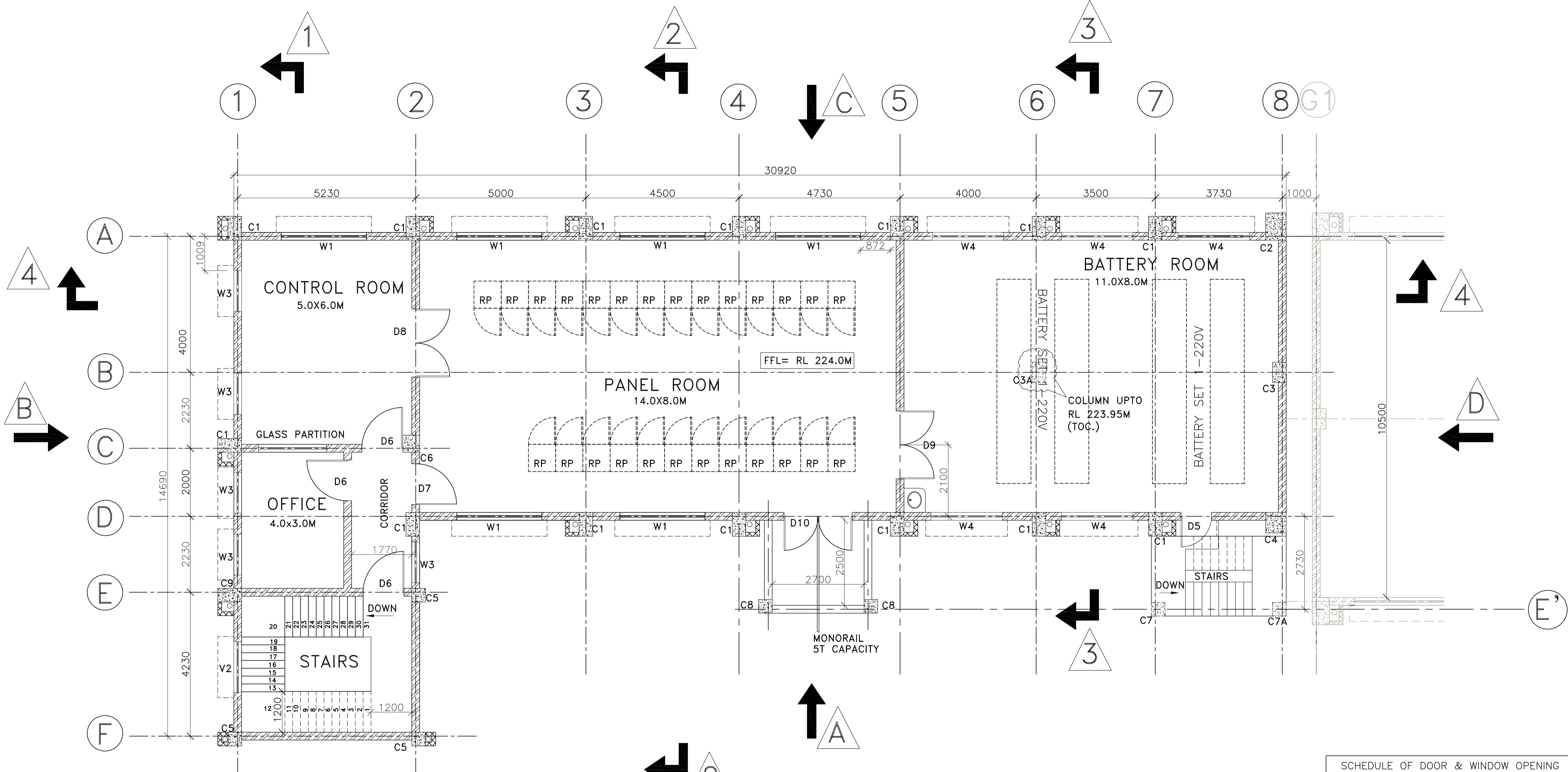
- TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220KV S/STN



TYPICAL DETAIL OF RAIN WATER PIPE FIXING DETAILS.

CUSTOMER:		NTPC-SAIL POWER COMPANY (P) LIMITED	
ADDITIONAL INFORMATION W.O.No.	84005	PROJECT:	ROURKELA PP-II EXPANSION PROJECT (1 X 250MW) - 220KV GIS
STATUS OF DRAWING		CONSULTANT:	(मैकॉन लिमिटेड) MECON LIMITED
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA
DATE		ALTERED	CHECKED
DATE		ALTERED	CHECKED
DATE		ALTERED	CHECKED
TITLE: S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL GROUND FLOOR PLAN (RL 219.0M)			
DEPT. SCALE		SIGN	
BHSL		TB-1-386-607-651	
SHEET		REV.	
1 OF 1		0	

COMPUTER DRG. PATH NAME: REF. DRG. No. SIGN & DATE INVENTORY No.



FIRST FLOOR PLAN

RL 224.0M

LEGENDS :-

	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
	EXHAUST FAN
	FINISHED GROUND FLOOR
	FINISHED FLOOR LEVEL
	THICKNESS
	TOP OF PARAPET WALL
	TOP OF CONCRETE

GENERAL NOTES :-

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- ALL DIMENSION SHALL BE CHECKED AND VERIFIED AT SITE. IN CASE OF ANY DISCREPANCY INFORM ENGINEERING BEFORE EXECUTION.
- FGL CORRESPONDES RL 218.5M.

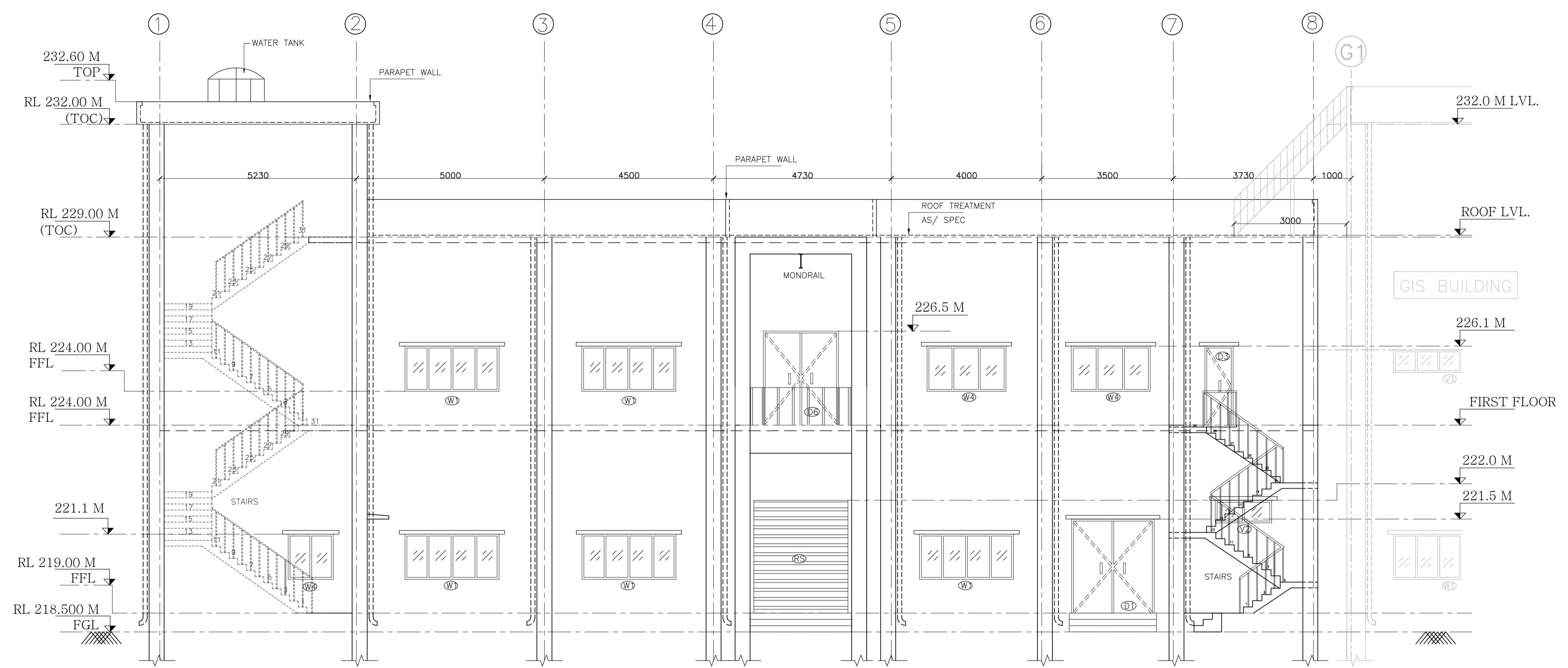
REFERENCE DRGS :-

- TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220KV S/STN

S.NO.	TYPE.	SIZE	SILL LVL.	LINTEL LVL.	QTY.	DESCRIPTION
1.	D5	900X2100	--	2100	1	SINGLE SHUTTER STEEL DOOR
2.	D6	2000X2100	--	2100	3	AL GLAZED DOOR
3.	D7	1200X2100	--	2100	1	FIRE DOOR
4.	D8	2000X2100	--	2100	1	FIRE DOOR
5.	D9	2000X2500	--	2500	1	FIRE DOOR
6.	D10	2000X2500	--	2500	1	STEEL DOOR
7.	W1	2500X1200	900	2100	6	AL GLAZED WINDOW
8.	W3	1200X1200	900	2100	5	AL GLAZED WINDOW OPENABLE
9.	W4	2100X1200	900	2100	5	AL GLAZED WINDOW
10.	GP	2000X2000	600	--	1	AL GLAZED GLASS PARTITION

CUSTOMER:		NTPC-SAIL	
		POWER COMPANY (P) LIMITED	
ADDITIONAL INFORMATION	PROJECT:	ROURKELA PP-II EXPANSION PROJECT	
W.O.No. 84005		(1 X 250MW) - 220KV GIS	
STATUS OF DRAWING	CONSULTANT:	(मैकॉन लिमिटेड)	
		MECON LIMITED	
DISTRIBUTION OF PRINTS		BHARAT HEAVY ELECTRICALS LTD	
		TRANSMISSION BUSINESS GROUP	
		NOIDA	
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DATE	ALTERED	DATE	ALTERED
	CHECKED		CHECKED
	APPROVED		APPROVED
TITLE		S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL	
		FIRST FLOOR PLAN (RL 224.0M)	
DEPT.	SCALE	DRAWING NO.	
BHEL		TB-1-386-607-652	
SIGN		SHEET	1 OF 1
		REV.	0

COMPUTER DRG. PATH NAME: \\...
 SIGN & DATE: ...
 REF. DRG. No.: ...
 INVENTORY No.: ...



ELEVATION - A

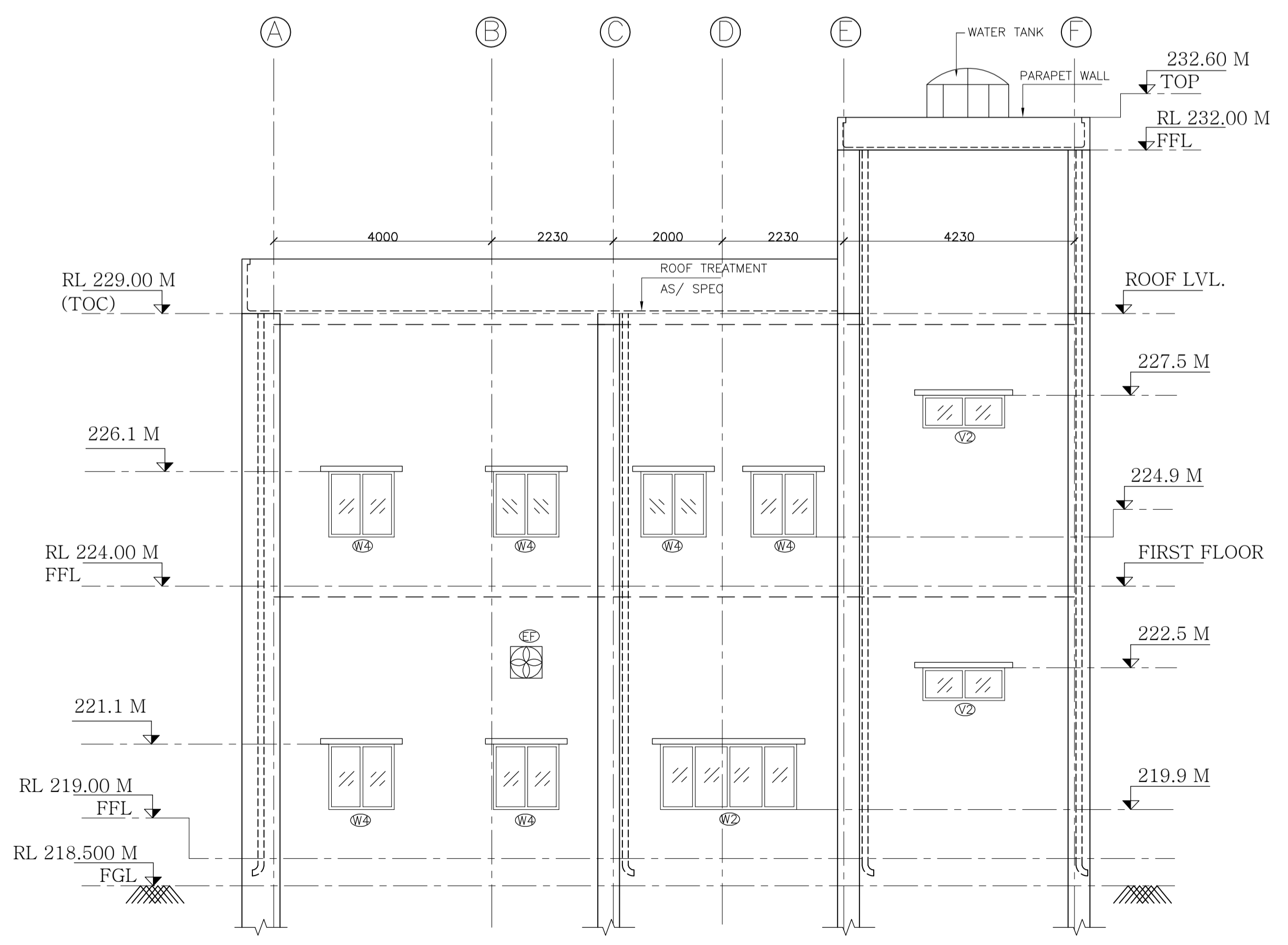
LEGENDS :-

	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
	EXHAUST FAN
	FINISHED GROUND FLOOR
	FINISHED FLOOR LEVEL
	THICKNESS
	TOP OF PARAPET WALL
	TOP OF CONCRETE

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 - ALL DIMENSION SHALL BE CHECKED AND VERIFIED AT SITE. IN CASE OF ANY DISCREPANCY INFORM ENGINEERING BEFORE EXECUTION.
 - FGL CORRESPONDES RL 218.5M.

REFERENCE DRGS :-

- TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220KV S/STN

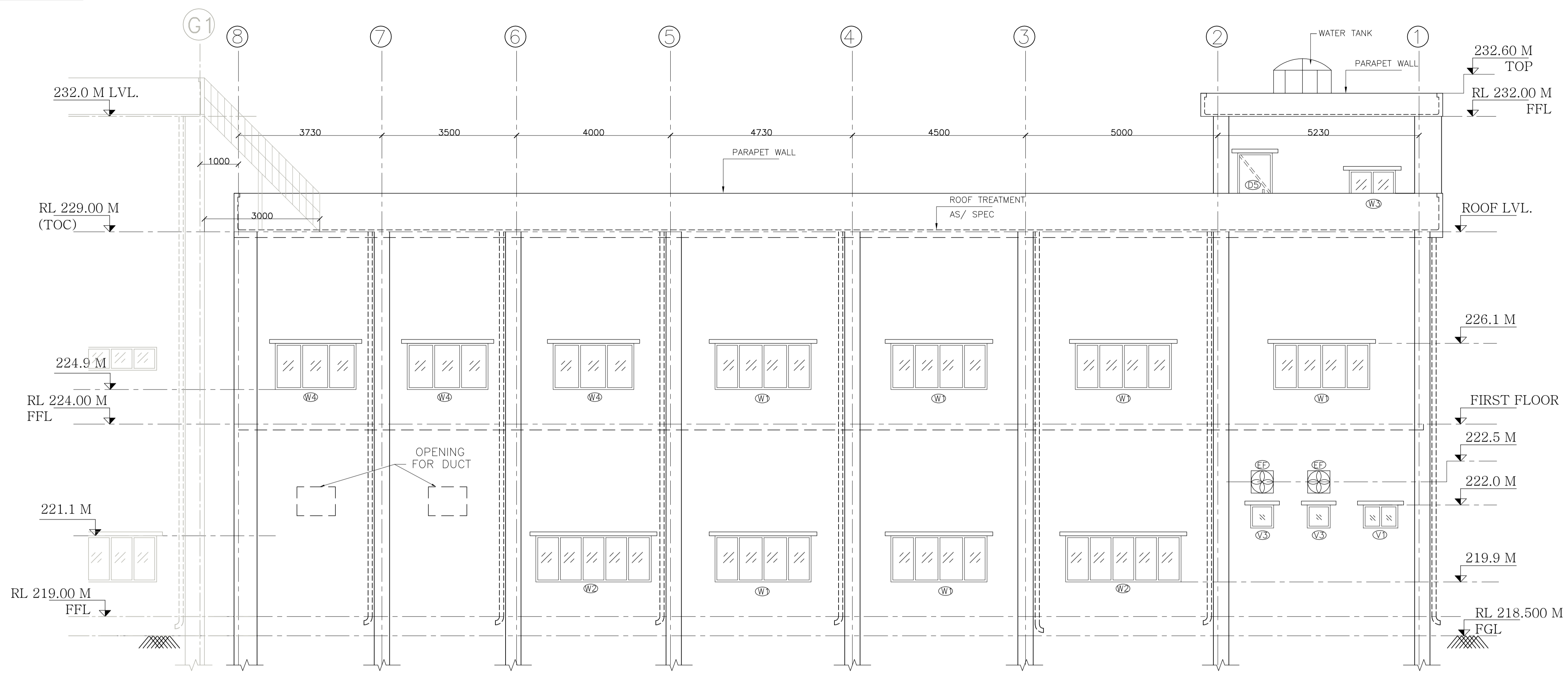


ELEVATION - B

DATE	ALTERED	DATE	ALTERED	DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED

CUSTOMER:	NTPC-SAIL POWER COMPANY (P) LIMITED																						
ADDITIONAL INFORMATION W.O.No.	84005	PROJECT:	ROURKELA PP-II EXPANSION PROJECT (1 X 250MW) - 220KV GIS																				
STATUS OF DRAWING		CONSULTANT:	(मैकॉन लिमिटेड) MECON LIMITED																				
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA																				
SIGN & DATE		<table border="1"> <tr> <td>DEPT</td> <td>NAME</td> <td>SIGN</td> <td>DATE</td> </tr> <tr> <td>DRN</td> <td>MUM</td> <td></td> <td>15.11.16</td> </tr> <tr> <td>DESN</td> <td>VG/BVG</td> <td></td> <td>15.11.16</td> </tr> <tr> <td>CHD</td> <td>PLK</td> <td></td> <td>15.11.16</td> </tr> <tr> <td>APPD</td> <td>NSR</td> <td></td> <td>15.11.16</td> </tr> </table>		DEPT	NAME	SIGN	DATE	DRN	MUM		15.11.16	DESN	VG/BVG		15.11.16	CHD	PLK		15.11.16	APPD	NSR		15.11.16
DEPT	NAME	SIGN	DATE																				
DRN	MUM		15.11.16																				
DESN	VG/BVG		15.11.16																				
CHD	PLK		15.11.16																				
APPD	NSR		15.11.16																				
TITLE S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL ELEVATIONS																							
DRAWING NO. BHEL TB-1-386-607-654		DEPT. SCALE																					
SHEET 1 OF 2		REV 0																					

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 REF. DRG. No.
 SIGN & DATE
 INVENTORY No.

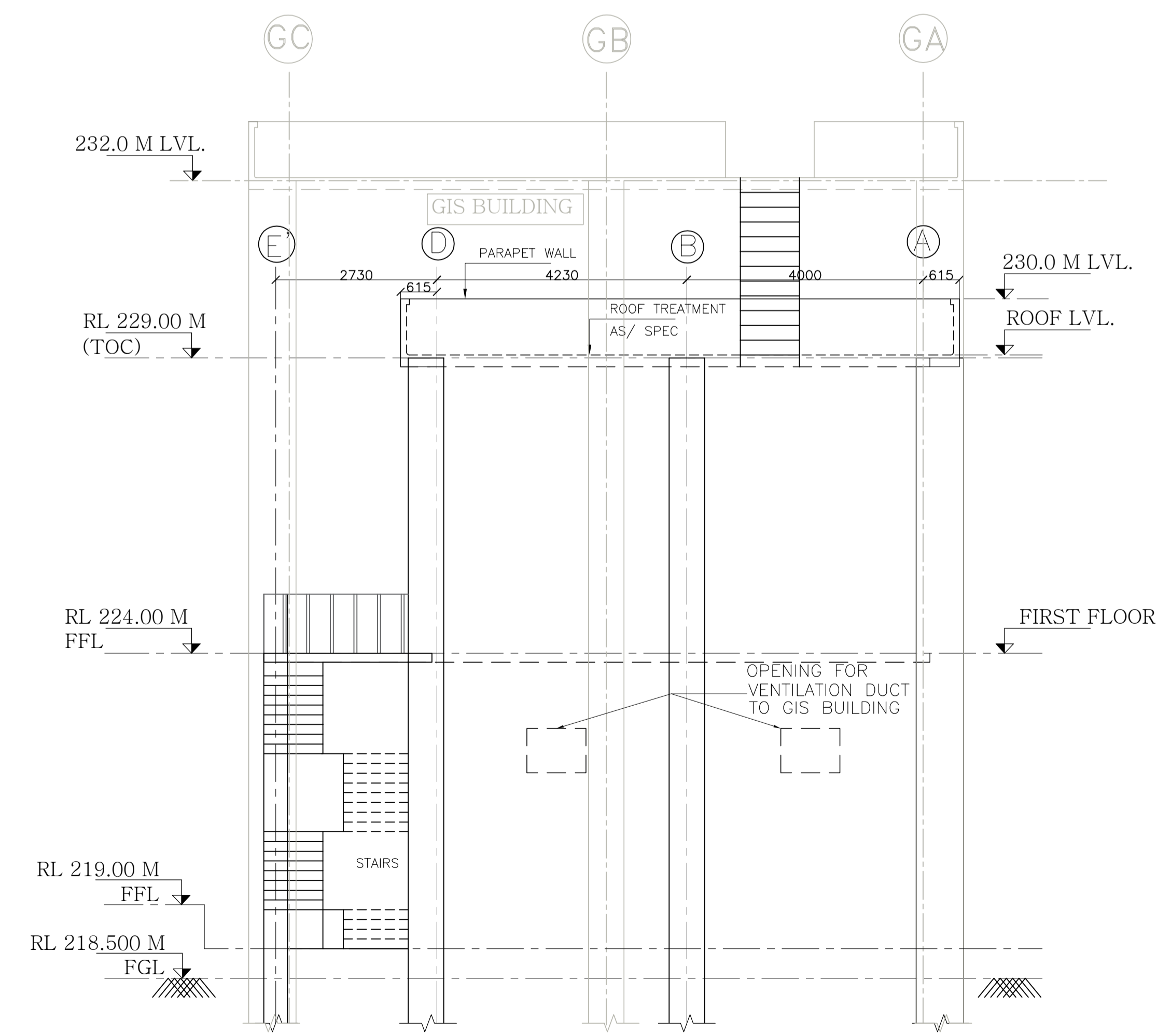


ELEVATION - C

LEGENDS :-

	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
	EXHAUST FAN
	FINISHED GROUND FLOOR
	FINISHED FLOOR LEVEL
	THICKNESS
	TOP OF PARAPET WALL
	TOP OF CONCRETE

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 4. FGL CORRESPONDES RL 218.5M.
- REFERENCE DRGS :-
1. TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220kV S/STN

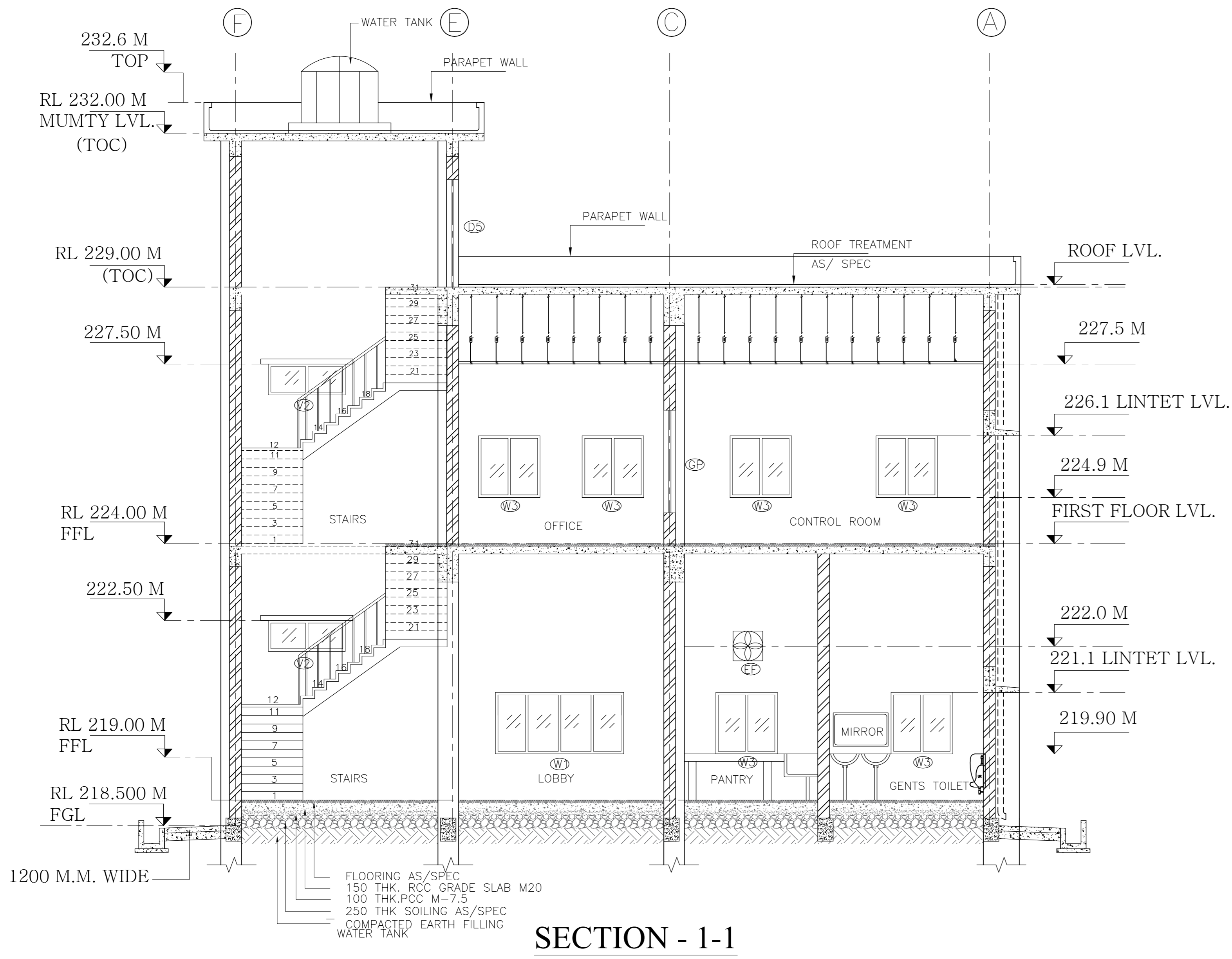


ELEVATION - D

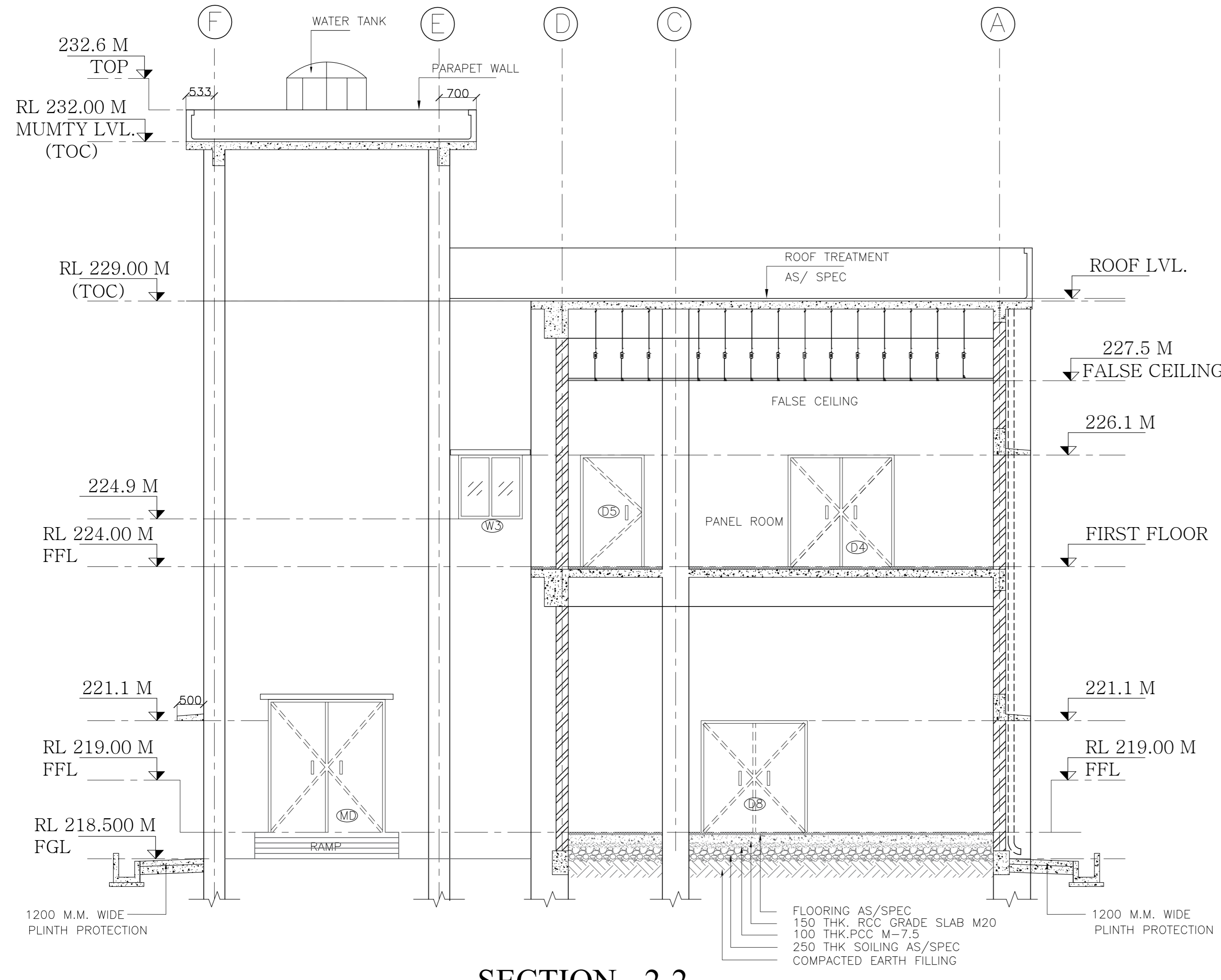
DATE	ALTERED	DATE	ALTERED	DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED

CUSTOMER:	NTPC-SAIL POWER COMPANY (P) LIMITED		
ADDITIONAL INFORMATION W.O.No.	84005	PROJECT:	ROURKELA PP-II EXPANSION PROJECT (1 X 250MW) - 220KV GIS
STATUS OF DRAWING		CONSULTANT:	(मैकॉन लिमिटेड) MECON LIMITED
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA
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TITLE		S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL ELEVATIONS	
DEPT.		SCALE	
SIGN		DRAWING NO.	
		BHSL TB-1-386-607-654	
		SHEET 2 OF 2 REV 0	

INVENTORY No. SIGN & DATE REF. DRG. No. COMPUTER DRG. PATH NAME.



SECTION - 1-1



SECTION - 2-2

LEGENDS :-

	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
EF	EXHAUST FAN
FGL	FINISHED GROUND FLOOR
FFL	FINISHED FLOOR LEVEL
THK	THICKNESS
TOP	TOP OF PARAPET WALL
TOC	TOP OF CONCRETE

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- FGL CORRESPONDES RL 218.5M.

REFERENCE DRGS :-

- TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220kv S/STN

DATE	ALTERED	DATE	ALTERED	DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED

CUSTOMER: **NTPC-SAIL POWER COMPANY (P) LIMITED**

ADDITIONAL INFORMATION W.O.No. 84005 PROJECT: **ROURKELA PP-II EXPANSION PROJECT (1 X 250MW) - 220KV GIS**

STATUS OF DRAWING CONSULTANT: **(मैकॉन लिमिटेड) MECON LIMITED**

DISTRIBUTION OF PRINTS: **BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA**

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DEPT	NAME	SYDN	DATE
DRN	MDM	2011.11	18.11.16
DESN	VG/RVG		18.11.16
CHK	PER		18.11.16
APPD	NSR		18.11.16

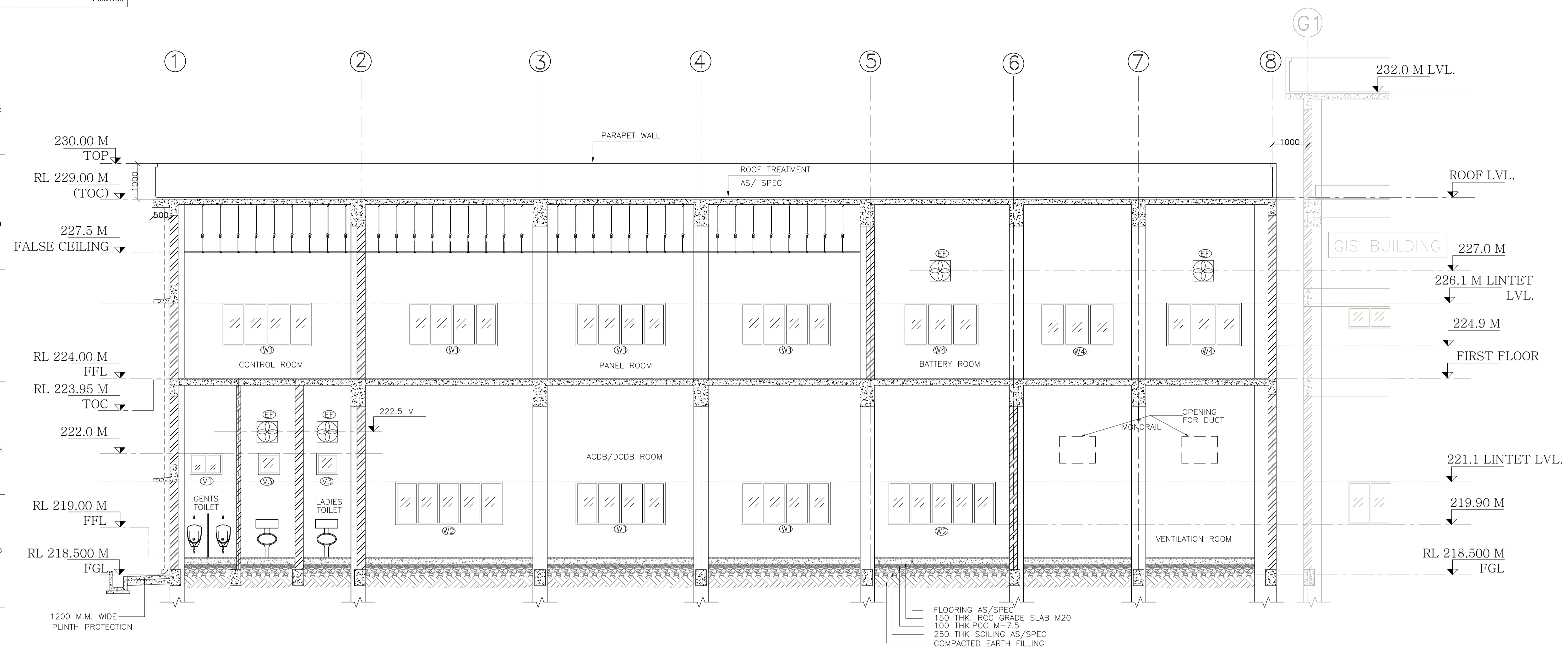
TITLE: **S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL SECTIONS**

DEPT. SCALE: **BHEL** DRAWING NO. **TB-1-386-607-655**

SIGN:

SHEET **1 OF 2** REV. **0**

DRAWING No: TB-1-386-607-655 FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM)



SECTION - 4-4

FLOORING AS/SPEC
150 THK. RCC GRADE SLAB M20
100 THK.PCC M-7.5
250 THK SOILING AS/SPEC
COMPACTED EARTH FILLING

LEGENDS :-

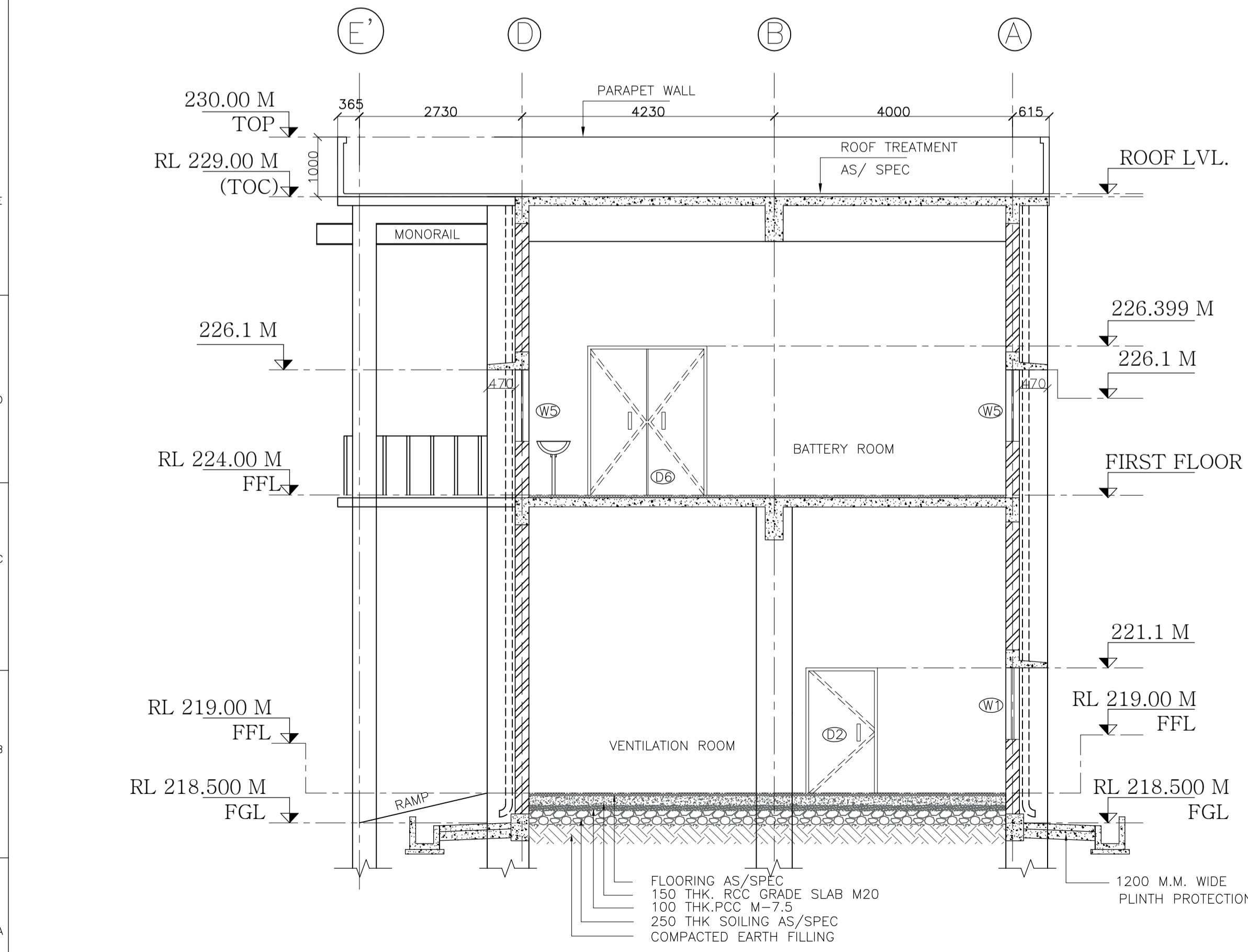
	230 THK. BRICK WALL
	115 THK. BRICK WALL
	COLUMN
	PROJECTION
	EF
	FGL
	FFL
	THK
	TOP
	TOC

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- FGL CORRESPONDES RL 218.5M.

REFERENCE DRGS :-

- TB-X-386-316-007,(SHEET 1 TO 3) : CONCEPTUAL LAYOUT OF CONTROL BUILDING OF 220KV S/STN



SECTION - 3-3

FLOORING AS/SPEC
150 THK. RCC GRADE SLAB M20
100 THK.PCC M-7.5
250 THK SOILING AS/SPEC
COMPACTED EARTH FILLING

DATE	ALTERED	DATE	ALTERED	DATE	ALTERED
	CHECKED		CHECKED		CHECKED
	APPROVED		APPROVED		APPROVED

CUSTOMER:	NTPC-SAIL POWER COMPANY (P) LIMITED		
ADDITIONAL INFORMATION W.O.No.	84005	PROJECT:	ROURKELA PP-II EXPANSION PROJECT (1 X 250MW) - 220KV GIS
STATUS OF DRAWING		CONSULTANT:	(मैकॉन लिमिटेड) MECON LIMITED
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD TRANSMISSION BUSINESS GROUP NOIDA
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TITLE		S/YARD CONTROL ROOM BUILDING- ARCHITECTURAL SECTIONS	
DRAWING NO.		BHSL TB-1-386-607-655	
SHEET		2 OF 2	
REV		0	

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 COMPUTER DRG. PATH NAME :
 REF. DRG. No.
 SIGN & DATE
 INVENTORY No.

ANNEXURE-A to TCN-05

ANNEXURE-A to TCN-05				
JOB		Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning, etc. of Ventilation System for 1x250 MW Units at PP-II Expansion, NSPCL, Rourkela, Odisha		
TENDER NO PSER:SCT:RKL-M1802:17				
S. NO.	Reference clause of tender document	Existing Provision	Bidder's query	BHEL's clarification
1	Referring to Clause No. 05.02.02.01 of Sec-C-2A	Air Washer of 3 Bank Spray Header with control globe valve in each header, Temperature Gauge, Pressure gauge ... shall be provided at Air Washer Chamber?	Please confirm 2 bank or 3 bank Clarify	Air washer shall be double bank spray system
		Air Washer shall be designed as per PID, wherein no Intermediate Chamber has been shown.	Should we consider the same as per Clause No.05.02.02..01? Please confirm	Bidder to follow specification.
	Referring to Clause No.5.1 & 5.02.02.03 of C2A	speed of the axial fan...	Speed of the Axial fan can not be maintained due the specific fan rating combination like high head across low discharge , kindly suggest accordingly.	Bidder to follow specification. For any specific case the same shall be finalized DDE, in consultation with end customer, with proper supporting document.
2	Referring to Clause No.5.2.4 of C1A	A spray nozzle system...	Is the UAF will be considered double bank/header type?Please clarify .	UAF shall be double bank spray system
3	Referring to Clause No.6 (h) under sub-section C1A	Design margin like Fan head -20%; Flow 20%....	Design margin in both (flow & head) for specific duty condition cannot be maintained, since other design parameter like speed restriction/motor rating , even fan model will be disturbed... Please confirm which one either flow or head margin shall be kept while selecting the Equipments.	Bidder to follow specification.
4	Referring to Clause No.5.1 & 5.2 of C1A	Pump system shall be providedwith duplex type strainer..	Since Duplex strainer are being used, hence backwash arrangement are not required, strainer of one side can be cleaned, keeping other side in operation mode....Please confirm	Bidder to follow specification.
5	Referring to Clause No.15 of Section C Specific Requirement (C&I)	Bidder to provide mandetory spare s.....	As per Price Schedule, there is no list of Mandatory Spares.....,Kindly confirm the same is applicable, if yes please furnish the list	There is specific list of mandatory spares. Bidder to follow technical specification.
6	Referring to Clause No.9.0 of 9 General under sub-section C1A	Insert or any support arrangement...	Duct routing shall be so designed that nearest structure/wall/roof shall be within 1.0 -1.5 M distance . So that we can take/fix our duct / supporting arrangement from them.Please confirm. If not necessary Primary support will be provided by you only.Since estimation of primary supports is not possible at this stage.	For C1A :- Duct support shall be in bidder scope, however only primary duct support outside the building shall be provided by BHEL. For C1B :- It is mandatory to provide duct supports for all ducts of GIS control bldg. and GIS bldg. as per standards and shall be in scope of the contractor. Details of ducting supports to be worked out during detailed engg.
		Is Temperature gauge is to be provided(sl.no 19 of same clause....	in the system, since there is no indication of the same in P&I drawing, Please confirm	Clause no. 9 is the general clause, if temp gauge is required, shall be decided DDE by end customer, same shall be as with thermo well and fixing arrangement
7	Referring Clause no.22 General under sub-section C1A.	Bidder shall guarantee...	We will not stand any guarantee for Inside condition of the ventilated space since design & capacity of the equipments selected by you Please confirm	Bidder to follow technical specification, as per the specification designing is under bidder's scope. Bidder to guarantee for inside condition and other as per the specification..
8	Referring Clause No.2 of ventilation system specification - sub section C1B		Sl.no 2 is not appearing in the same sub section ..	Noted

ANNEXURE-A to TCN-05

ANNEXURE-A to TCN-05				
JOB	Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning, etc. of Ventilation System for 1x250 MW Units at PP-II Expansion, NSPCL, Rourkela, Odisha			
TENDER NO PSER:SCT:RKL-M1802:17				
S. NO.	Reference clause of tender document	Existing Provision	Bidder's query	BHEL's clarification
9	Referring clause No.3.1.2 of C1B	The quantity of Power & Control Cable cannot be estimated unless location of two points are not finalised. We will indicate type & size of the cable & earthing, The quantity will be indicated during detailed engineering, since the cable is free issue item. Kindly provide suitable drqwing for Fan Room of Switchward Building.	Please confirm	Noted, Architectural drg. of control building is attached herewith. This drg. indicates Ventilation room at Ground floor of the control building"
10	Referring to Table 1 of SI.No.3.7 under sub-section C1B		Kindly specify the following: Static Pressure & Type of Fan (DWDI/SWSI) Size of Gravity Damper: Area of Fire Damper .	Fans shall be of DIDW type, rest other parameters shall be finalised after detailed engg. with ultimate client to achieve required design parameters.
11	Referring Clause No.2.00.00 of sub-section C-2A	Supply of Menorail with Chain Pulley Block in for Air Washer/UAF/FFI?	Is it in our scope or not, sinceit is not appearing in Price Schedule .Please confirm.	For C1A :- Monorail with chain pulley block, if required, same shall be in BHEL scope .. For C2A :-Monorail shall be provided by BHEL in Ventilation room of GIS control building, however chain pulley block for the same shall be provided by the contractor.
12	As per Clause No. Recirculating Piping under clause no. C.2A	Butterfly valves are	There is no such valves are shown in the P&I drawing .kindly confirm which is correct.	P&ID is for tender purpose only, if butterfly valves are required as per the system or specification requirement, same shall be supplied by bidder only.
13	Referring Clause No.24 of Special Technical Requirement (C&I) under section C	Quantity of Instruments.....	Kindlt confirm the quantity of Instruments for the system at this stage only. Any additional requirement of instruments during DDE, Price Implication if any to be born by the client.	Specification requirement is clear. However Exact Quantity of instruments shall be finalized during detail Engineering considering various clauses of the specification. Bidder to comply the Specification requirement
14		Is Mandatory Spares (C&I) to be quoted though there is no such items in the Price Schedule	Please confirm	Bidder query is not clear, as no clause number of technical specification has been referred. Bidder to follow technical specification.
15			Whether all DIDW Fan for Air Washer unit shall be located in dedicated Ventilation Fan Room? Please confirm.	All the air washer along with fan, pumps etc. shall be installed in the air washer room, as mentioned in the technical specification.
16	Section-I, Sub Section C1A having Clause No. 5.1.2 & 5.2.2 sheet No. 4 of 14	Air Washer & UAF System shall be provided with duplex strainer	In Section:1 Sub Section :C2A Clause No. : 05.02.02.01, it is mention to provide pot strainer. However you may please note that the duplex are not applicable for Air Washer application and we are providing pot strainer as per your clause no. 05.02.02.01 at pump inlet.	Refer page 58 of 522 duplex type pot strainer required. Bidder is requested to follow the technical specification.
17	Section-I, Sub Section C1A having clause no. 5.1.7 & 5.2.7 Sheet No. 5 of 14. Also in your attached P&ID for Air Washer unit and UAF.	Air washer and UAF system shall be of double bank spray type	In Section:1 Sub Section : C2A Clause No. : 05.02.02.01, Air Washer shall be of 3 bank spray construction. Please confirm.	Air washer and UAF shall be of double bank spray type.
18	Section-I, Sub Section C2A having clause no. 05.02.01.04 Page No. 39	Tube Axial Exhaust Air Fan shall be provided with suction air grill	As ducting is not their for exhaust system hence suction air grill is not required.	Bidder is requested to follow the technical specification.
19	--	--	Kindly confirm the thickness of axial fan	Query not clear. For casing thickness refer 05.02.02.03 of section C2 technical specification.
20	VOLUME-III, SCH-7, MAIN SERVICE PRICE BREAKUP	Column for basic price, service tax and total price are not mentioned in price format.	According to your price format, no extra column is given for putting basic price, service tax and total price. Kindly confirm	As per Tender.

ANNEXURE-A to TCN-05

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TENDER NO PSER:SCT-RKL-M1802:17				
S. NO.	Reference clause of tender document	Existing Provision	Bidder's query	BHEL's clarification
21	VOLUME-III, SCH-3, MAIN SUPPLY PRICE BREAKUP	Only basic price column is mentioned	According to your price format, basic price is to be mentioned in column (6), whereas no extra column is given for putting total basic price. Kindly confirm.	As per tender.
22	SECTION :1, SUB SECTION:C 1 A (CLAUSE NO. 8.4 & 8.5), SECTION:1 SUB- SECTION:C2A, clause no. 5.01.01 (PAGE19 & 20) AND SECTION:1 SUB- SECTION:C2A, CLAUSE NO. 5.02.02.01 (PAGE NO. 41)	PIPE SHALL BE OF MS CONSTRUCTION OR GI	AT SECTION: 1, SUB SECTION:C 1 A (CLAUSE NO. 8.4 & 8.5) AND SECTION:1 SUB-SECTION:C2A (PAGE19 & 20), you have mentioned to consider pipe of MS heavy class galvanized, whereas at SECTION:1 SUB-SECTION:C2A, CLAUSE NO. 5.02.02.01 (PAGE NO. 41) you mentioned to consider the same of GI medium class. Kindly confirm the MOC of pipe.	Bidder to follow specification
23	SECTION:1 SUB- SECTION:C2A, clause no. 5.01.01(PAGE 20)	Velocity of water in pump suction line shall be within 0.75 and 1.5 m/sec in discharge line	We feel that velocity of pipe mentioned in specification is very low. Kindly confirm.	Bidder to follow specification.
24	SECTION:1 SUB- SECTION:C2A, clause no. 03.01.00(PAGE 25) , SECTION:1 SUB-SECTION:C2A, clause no. 5.02.02.03 (PAGE 44) and SECTION:1 SUB- SECTION:C2A, clause no. 5.02.02.06 (PAGE 45)	Velocity of filter	At SECTION:1 SUB- SECTION:C2A, clause no. 03.01.00(PAGE 25), you have mentioned to consider velocity at filter 1.5 m/s, whereas at SECTION:1 SUB- SECTION:C2A, clause no. 5.02.02.03(PAGE 44) and SECTION:1 SUB-SECTION:C2A, clause no. 5.02.02.06 (PAGE 45), velocity at filter is mentioned as 2.5m/s. Kindly confirm.	Bidder to follow specification. As per clause no. 1.9 of intent of specification, more stringent requirement as per the interpretation of the owner shall apply.