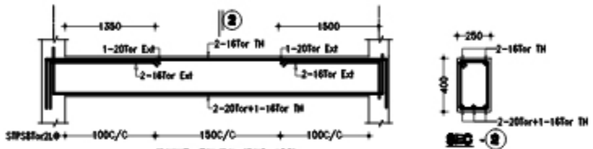
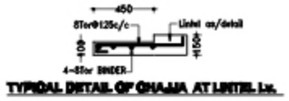


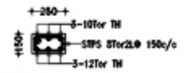
DETS. OF B1 TO B4 (250x400)



DETS. OF B5 (250x400)

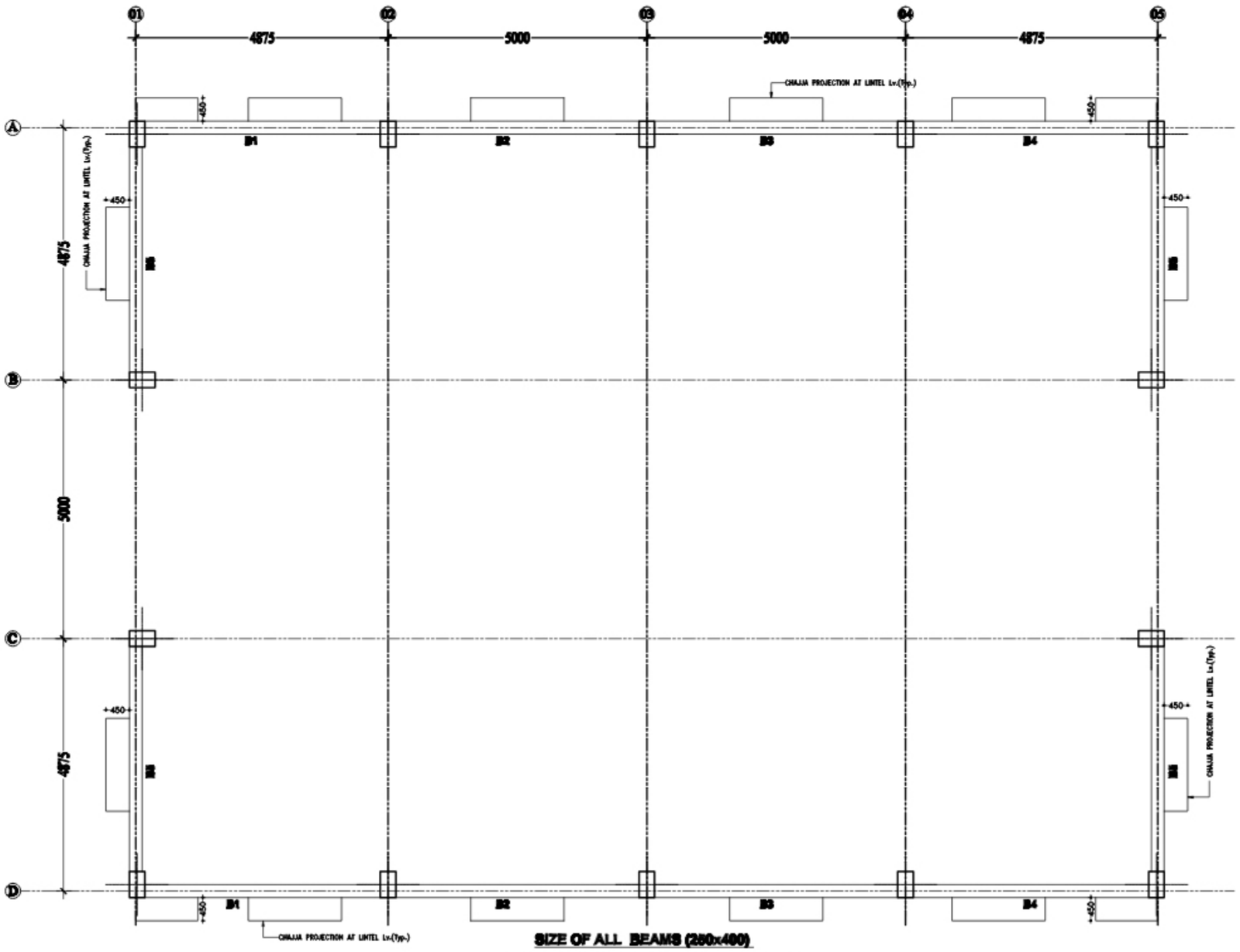


TYPICAL DETAIL OF CHAJJA AT LINTEL Lv.



TYPICAL DETAIL OF LINTEL

(PROVIDE DIRECTLY OVER B/W FOR WINDOW/VENTILATOR OPENINGS)



SIZE OF ALL BEAMS (250x400)

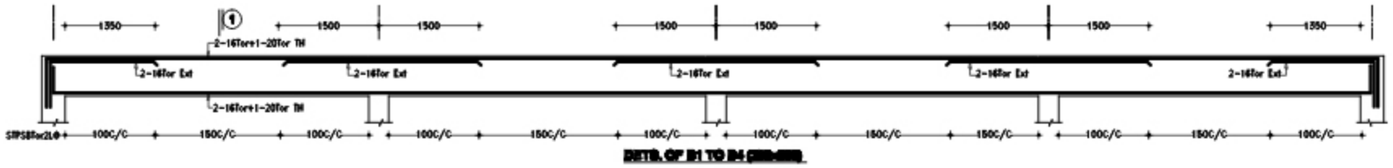
BOTTOM Lv. OF ALL BEAMS SHALL BE 3500 ABOVE PL

NOTES:-

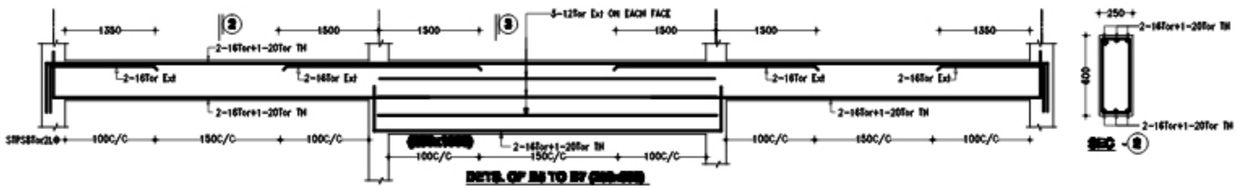
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M20.
3. T INDICATES TOR STEEL YIELD STRENGTH 500 N/mm².
4. ALL CONCRETE SHALL BE MACHINE MIXED AND MACHINE VIBRATED.
5. CLEAR COVER TO MAIN STEEL 25mm IN SLAB, 25mm IN BEAM & 40mm IN COLUMN.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWING ACCURACY IF ANY SHALL BE PRESENT TO THE NOTICE OF THE CONSULTING ENGINEERS.
8. ALL DISTRIBUTION BAR/ DIVERSION REQUIRED BUT NOT CALLED OUT SHALL BE 8TOR @300C.
9. THE DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. IN CONTACT SHOWN BEAM BAR SHALL BE ANCHORED INTO COLUMN UPTO A DISTANCE 40 TIMES DIA OF THE BEAM BAR, DISTANCE MEASURED FROM FACE OF THE COLUMN.

REVISION No.	DATE	PARTICULARS	DRAWN	CHED	APPRD

PROJECT No.	TITLE:- BRACING PLAN AT Lv. +3500 ABOVE PL
DRAWN BY [illegible]	WORK:- G.I.S STORE AT PURNEA
APPRD	CLIENT:- POWER GRID CORPORATION
SCALE 1:50 DT:20.06.2019	ARCHITECT:- INTERFACE ARCHITECTS (P) LTD.
DRG.No. S-3 REV	SDCON STRUCTURAL DESIGNERS, CIVIL ENGINEERS HH- L2/11, SOUTH S K PURI, PATNA



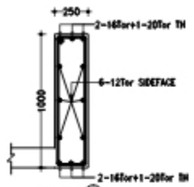
DETL. OF B1 TO B4 (SIM-SIM)



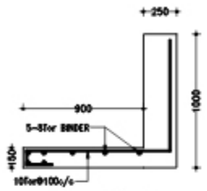
DETL. OF B5 TO B7 (SIM-SIM)

SEC -(1)

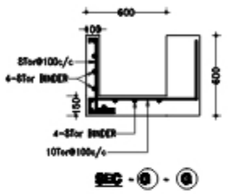
SEC -(2)



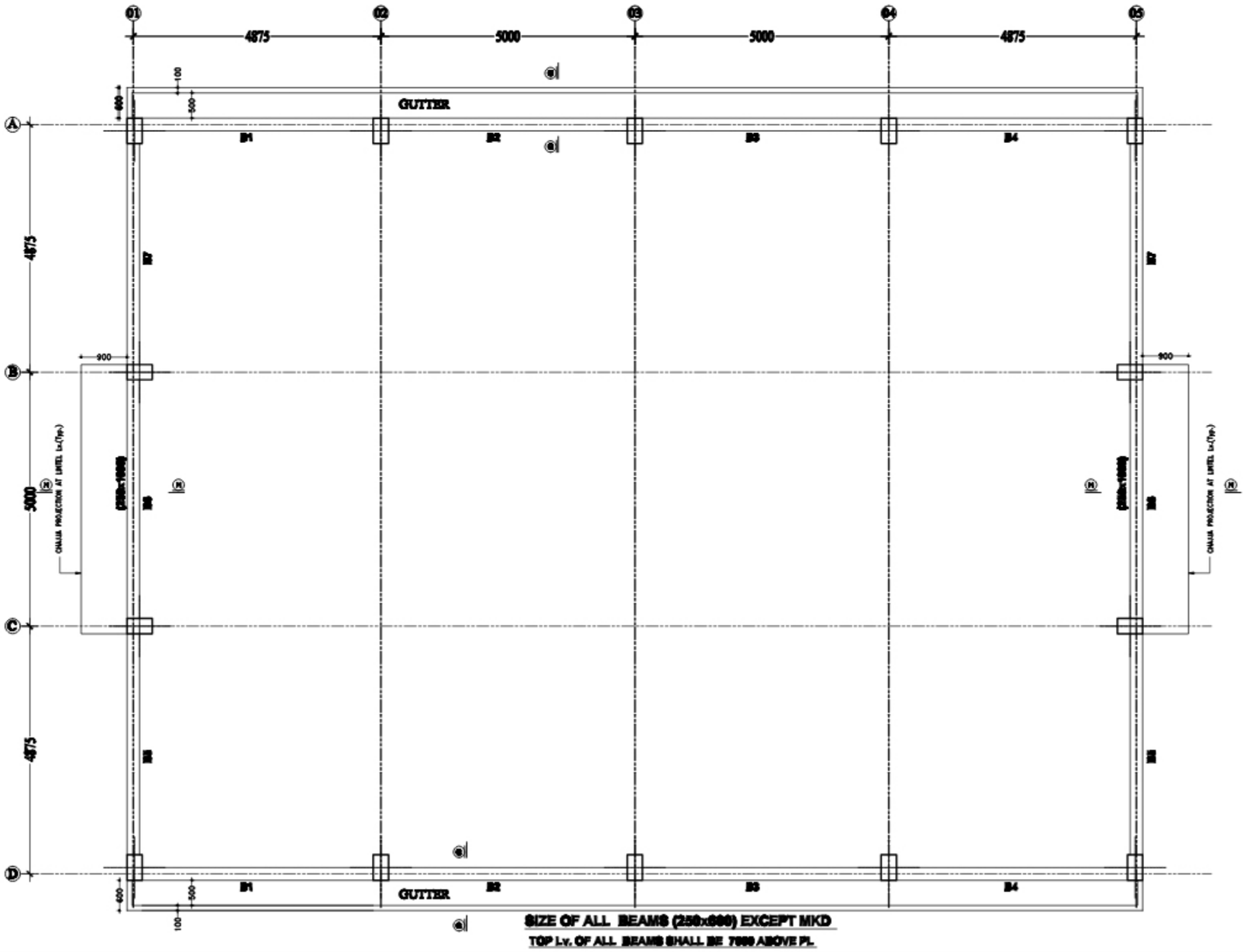
SEC -(3)



SEC -(H) - (H)



SEC -(G) - (G)



SIZE OF ALL BEAMS (250x600) EXCEPT MKD

TOP Lv. OF ALL BEAMS SHALL BE 7000 ABOVE PL.

NOTES:-

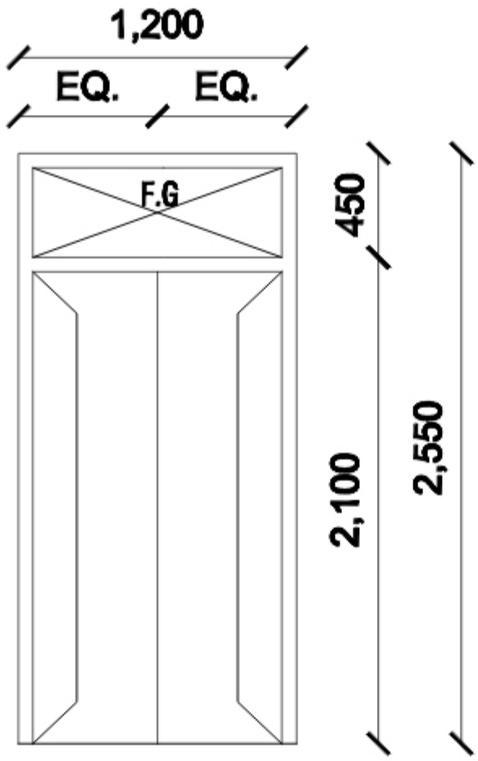
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M30.
3. Y DENOTES TOR STEEL, Y=0.6×FE415=249 N/mm².
4. ALL CONCRETE SHALL BE MACHINE MIXED AND MACHINE VIBRATED.
5. CLEAR COVER TO MAIN STEEL 40mm IN BEAMS & 40mm IN SLABS.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE CHECKED WITH THE ARCHITECTURAL DRAWING. ANOMALY IF ANY SHALL BE INFORMED TO THE NOTICE OF THE CONSULTING ENGINEER.
8. ALL INFORMATIONS HAVE IMPORTANT PURPOSE BUT NOT GALLERY BUT SHALL BE WORK GENERAL.
9. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. ANCHOR OF 8mm DIAM BARS SHALL BE ANCHORED INTO COLUMN WITH A BENDING 45 DEG DIA OF THE BAR DIA, BENDING REVERSED FROM FACE OF THE COLUMN.

REVISION No.	DATE	PARTICULARS	DRAWN	CHKED	APPRD

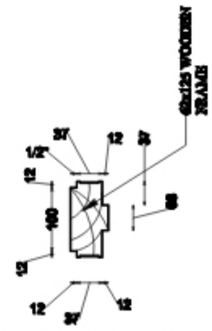
PROJECT No.	TITLE:- BRACING PLAN AT Lv. +7000 ABOVE PL
DRAWN BY [redacted]	WORK:- G.I.S STORE AT PURNEA
APPRD	CLIENT:- POWER GRID CORPORATION
SCALE 1:50	ARCHITECT:- INTERFACE ARCHITECTS (I) LTD.
DT:20.06.2019	
DRG.No. S-4	REV

SDCON
STRUCTURAL DESIGNERS, CIVIL ENGINEERS
HH- 12/11, SOUTH S K PUR, PATNA

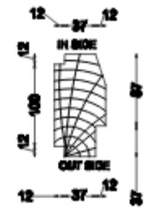
NOTES :-
1) ALL SECTIONS TAKEN FROM JINDAL ALUMINIUM LTD. FOR ALUMINIUM WORKS .
2) ANY DISCREPANCY OR CHANGE THEN CONTACT THE CONSULTANT
3) GRILL OF ALL WINDOWS TO BE INSIDE UNLESS SPECIFIED
4) ALL WINDOWS TO BE SLIDING
5) ALL WORKS CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATIONS
6) HEAVING SECTION JINDAL ALUMINIUM LTD. SHOULD BE USED.



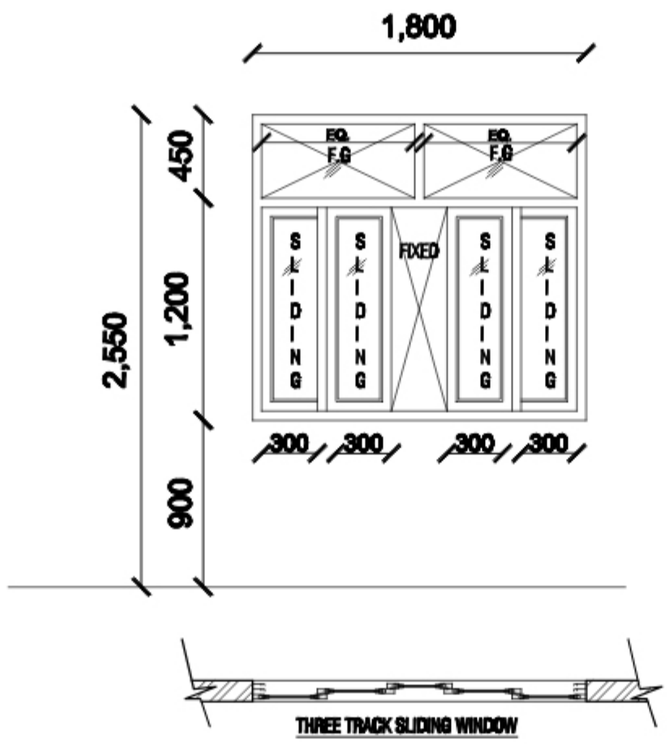
TYPE-D
WOODEN DOOR



SECTIONAL DETAIL OF SAL WOOD CHAUKHAT FOR DOUBLE SHUTTER



SINGLE SHUTTER



THREE TRACK SLIDING WINDOW

DET.OF SLIDING WINDOW AS/SITE

W	SIZE :-	1800 X 1650
	CILL :-	900
	LINTEL :-	2550

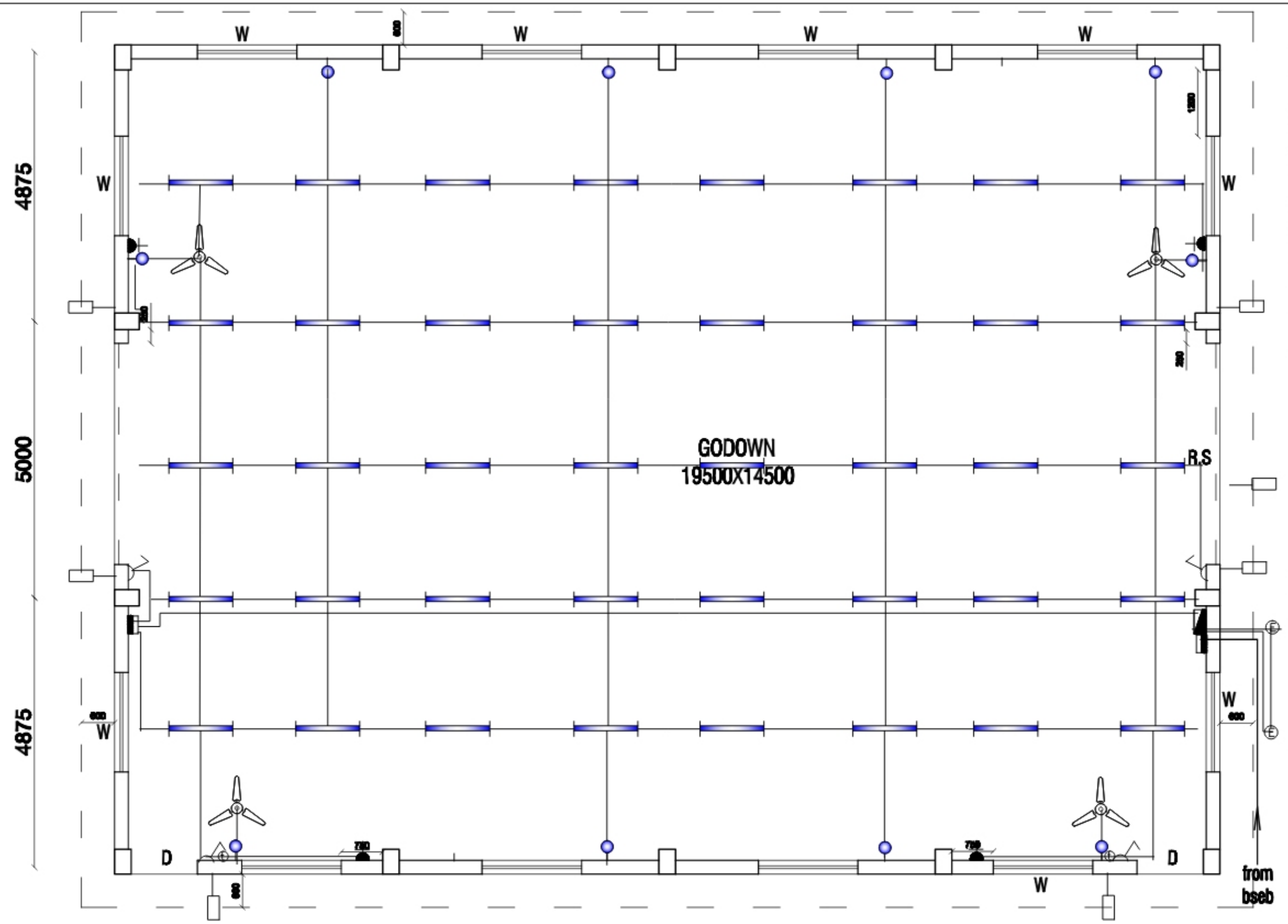
NO.	REVISION	DATE

PROJECT:-
400/220 KV. G.I.S STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT:-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS ENVIRONMENTAL PLANNERS FACILITY MANAGEMENT
HARDEWARI COLONY
PATNA ROAD PURNEA
PH.

TITLE:-
DOOR/WINDOW DET.

DRG NO.- 3.DOOR/WINDOW
CHECKED BY:-
DRAWN:- AD/RM
REV.:-
SCALE:- NTS
DATE:- 31-10-2007



LEGEND

SYMBOL	DESCRIPTION	MHT
	route of power circuit	
	route of light circuit	
	route of co-axial wiring	
	route of telecom wire	
	route of submain	
	route of wiring	
	1 x/1sle./conn. box	5'-0"
	1 x/ outlet	4'-0"
	1x40 - 40W fluorescent fitting	9'-0"
	5 pin 16 amp plug point kitchen toilet	1'-0" 3'-0" 5'-0"
	switch board.	4'–6"
	5 pin 6 amp plug point	1'-0"/4'-0"
	distribution board	
	2nos 6A & 1 no 16A socket and switch on one board	5'-0"
	wall bracket fan	8'–0"
	c o t v connn.	
	meter panel	
	coll bell & push	5',4'-0"
	2nos 6A socket and switch on one board	1'-0"/4'-0"
	ceiling fan	
	telephone outlet	1'-0"
	Fan hook box	
	wall bracket light	
	switch board with 6A socket	4'–6"
	earth station	
	chandelier light	
	exhaust fan	9'-0"
x	19 mm dia 2mm th. pvc pipe	
y	25 mm dia 2mm th. pvc pipe	
a	1 sq. mm pvc insulated cu. wire	
b	2.5 sq mm pvc insulated cu. wire	
c	4 sq mm pvc insulated cu. wire	
d	6 sq mmpvc insulated cu.wire	
e	.75 sq mmpvc insulated cu.wire	
f	1.5 sq mmpvc insulated cu.wire	
	ceiling light	
	smoak detector	
	Manual Fire Alarm system	
	STREET LIGHT	

Note.

1.) use Black colour wire as neutral and red, yellow, blue, for phase.

2.) May be provide extra 1 no. 1.5 sq.mm wire from DB to each switch board for the use of inverter power .

	Sizes of wires.		To be used as		MCB
a	1 sq. mm pvc insulated cu. wire		point wiring	(point to switch board)	
b	2.5 sq mm pvc insulated cu. wire	2no	light circuit	(switch board to d.b.)	6/10A SP
c	4 sq mm pvc insulated cu. wire	2no	power circuit	(power socket to d.b.)	16/20/32A SP
d	6/10 sq mmpvc insulated cu.wire	2x6sq(1phase 4x6sq(3ph)	submain circuit	(meter to d.b.)	40A SPN or 63A TPN
e	.75 sq mmpvc insulated cu.wire		earth wire		
f	1.5 sq mmpvc insulated cu.wire	2lb	light circuit (up to 5 point)		

PROJECT >
400/220 KV. G.I.S STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECTS: INTERFACE ARCHITECTS (P') LTD.
ARCHITECTS ENGINEERS ETC. DESIGNERS
MILKWEG GANDHI APARTMENT
HARMANDIR GELERY
BORING ROAD PATNA
PH. 2501-08

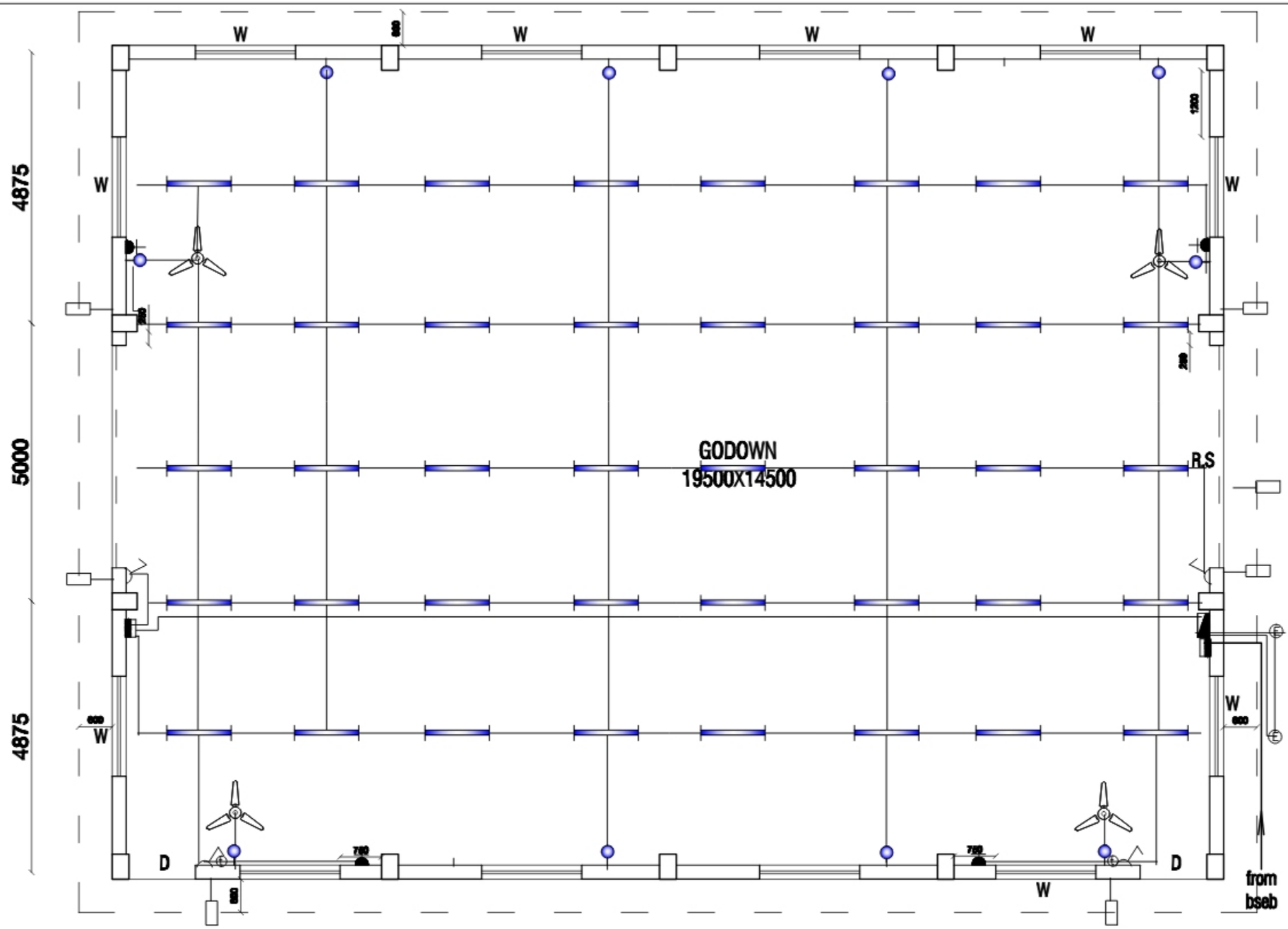
STRUCTURAL CONSULTANT: SHRI KIRTI GOMES, PATNA

TITLE>
ELECTRICAL LAYOUT GROUND FLOOR

DRN. BY>
CHECKED BY>

DRG.NO> 01
REV.> 00
NORTH>

SCALE> N.T.S
DATE> 11-011-2017



LEGEND

SYMBOL	DESCRIPTION	MHT
	route of power circuit	
	route of light circuit	
	route of co-axial wiring	
	route of telecom wire	
	route of submain	
	route of wiring	
	t.v./tele.junc. box	5'-6"
	t.v outlet	4'-6"
	1x4'- 40W fluorescent fitting	9'-0"
	5 pin 16 amp plug point kitchen toilet	1'-6" 3'-6" 6'-6"
	switch board.	4'–6"
	5 pin 6 amp plug point	1'-6"/4'-6"
	distribution board	
	3nos 6A & 1 no 16A socket and switch on one board	6'-6"
	wall bracket fan	8'–0"
	c c t v camera.	
	meter panel	
	call bell & push	6',4'-6"
	2nos 6A socket and switch on one board	1'-6"/4'-6"
	ceiling fan	
	telephone outlet	1'-6"
	Fan hook box	
	wall bracket light	
	switch board with 6A socket	4'–6"
	earth station	
	chandelier light	
	exhaust fan	6'-6"
x	16 mm dia 2mm th. pvc pipe	
y	25 mm dia 2mm th. pvc pipe	
a	1 sq. mm pvc insulated cu. wire	
b	2.5 sq mm pvc insulated cu. wire	
c	4 sq mm pvc insulated cu. wire	
d	6 sq mmpvc insulated cu.wire	
e	.75 sq mmpvc insulated cu.wire	
f	1.5 sq mmpvc insulated cu.wire	
	ceiling light	
	smoke detector	
	Manual Fire Alarm system	
	STREET LIGHT	

Note.

1.) use Black colour wire as neutral and red, yellow, blue, for phase.

2.) May be provide extra 1 no. 1.5 sq.mm wire from DB to each switch board for the use of inverter power.

	Sizes of wires.		To be used as		MCB
a	1 sq. mm pvc insulated cu. wire		point wiring	(point to switch board)	
b	2.5 sq mm pvc insulated cu. wire	2no	light circuit	(switch board to d.b.)	6/10A SP
c	4 sq mm pvc insulated cu. wire	2no	power circuit	(power socket to d.b.)	16/20/25A SP
d	6/10 sq mmpvc insulated cu.wire	3x6sq(1phase 4x6sq(3ph)	submain circuit	(meter to d.b.)	45A SPN or 60A TPN
e	.75 sq mmpvc insulated cu.wire		earth wire		
f	1.5 sq mmpvc insulated cu.wire	2no	light circuit (up to 8 point)		

PROJECT >
400/220 KV. GIS STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

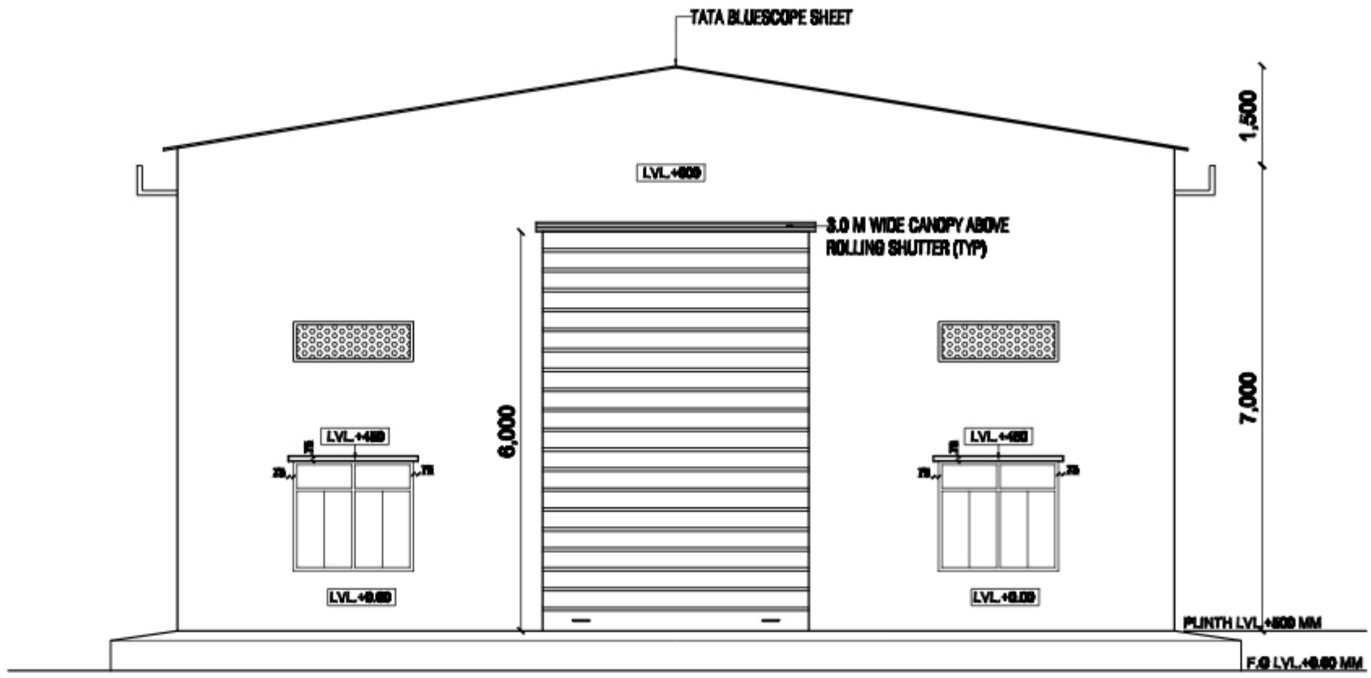
ARCHITECT: INTERFACE ARCHITECTS (P) LTD.
ARCHITECTS ENGINEERS INT. DESIGNER
RAJENDRA SAMEER APARTMENT
KADAMKUAN GOLAMBI
ASHIANA ROAD PATNA
PH. 2683 048

STRUCTURAL CONSULTANT: SHRI VIDYA CONSULTANTS

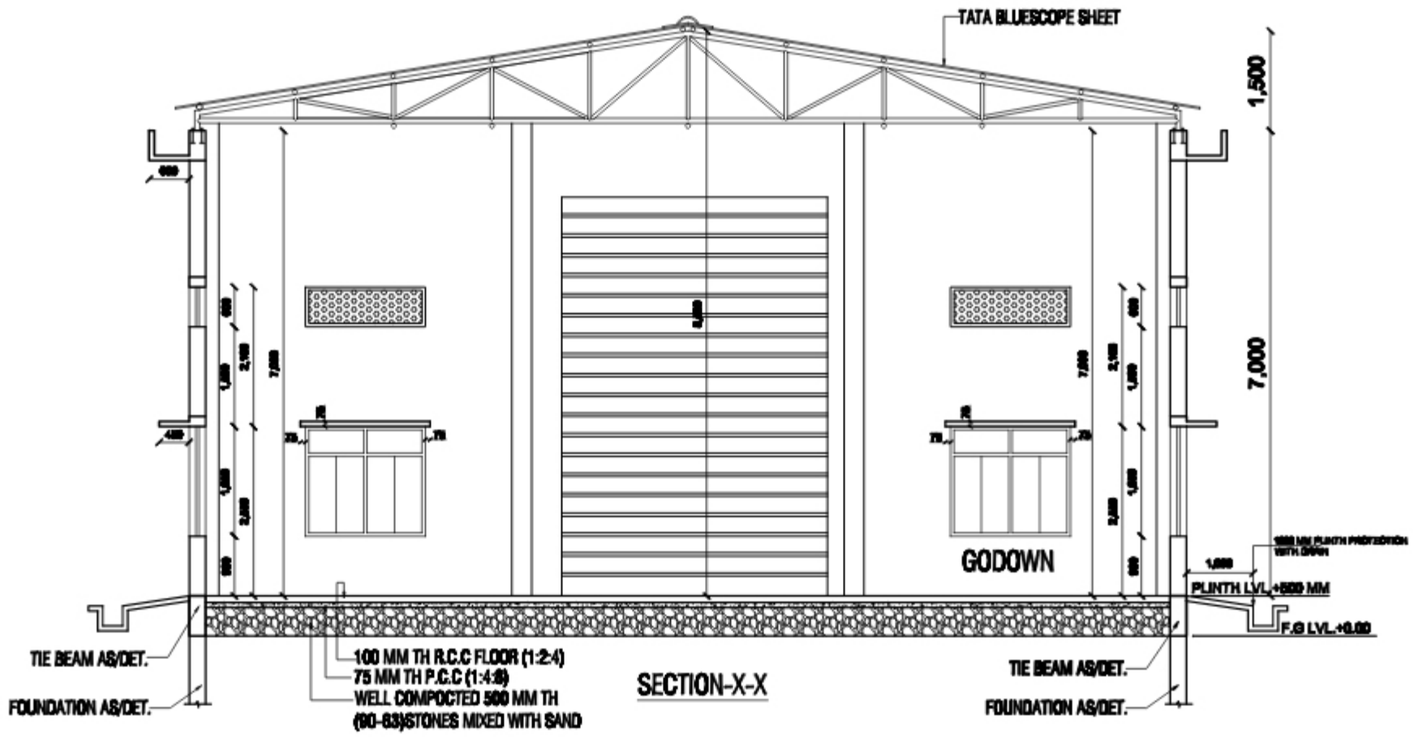
TITLE> ELECTRICAL LAYOUT GROUND FLOOR

DRN BY> CHECKED BY>

SCALE> N.T.S | REV.> 00 | DATE> 11-04-2017 | NORTH>



FRONT ELEVATION & BACK ELEVATION



SECTION-X-X

NO	REVISION	DATE

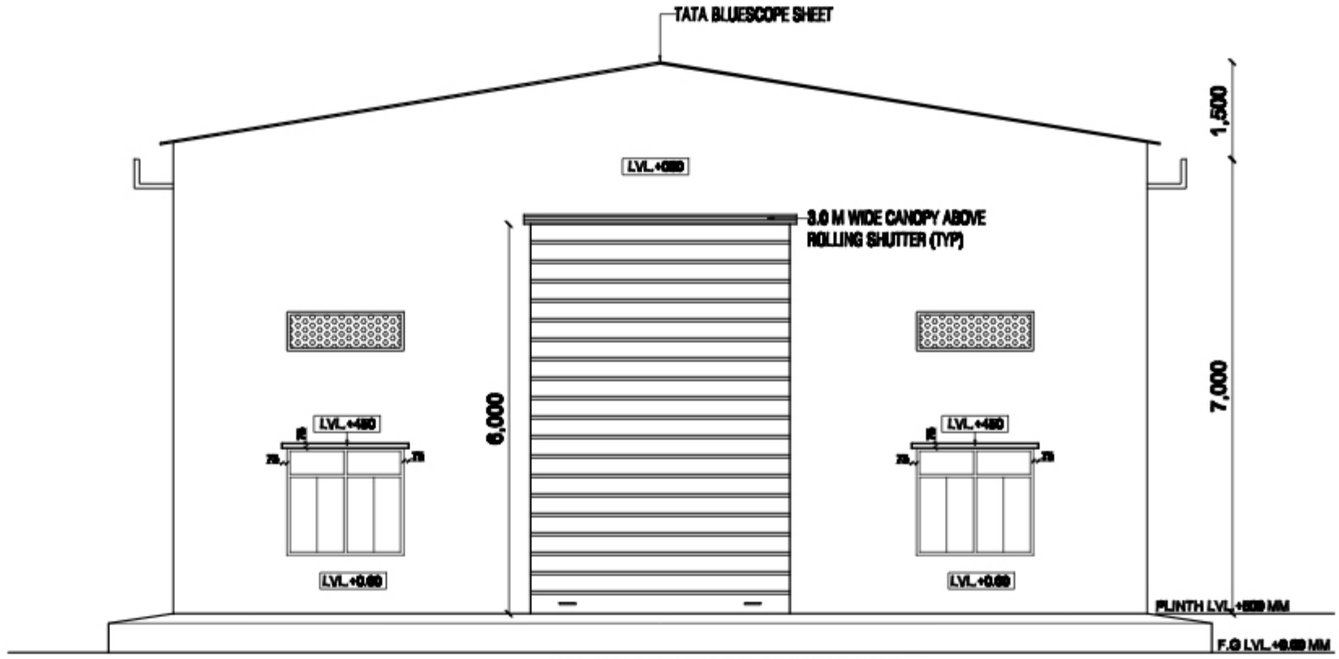
PROJECT :-
400/220 KV. G.I.S STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS INT. DESIGNER
[illegible] GANGHI APARTMENT
NAGESHWAR COLONY
BORING ROAD PATNA
PH. [illegible]

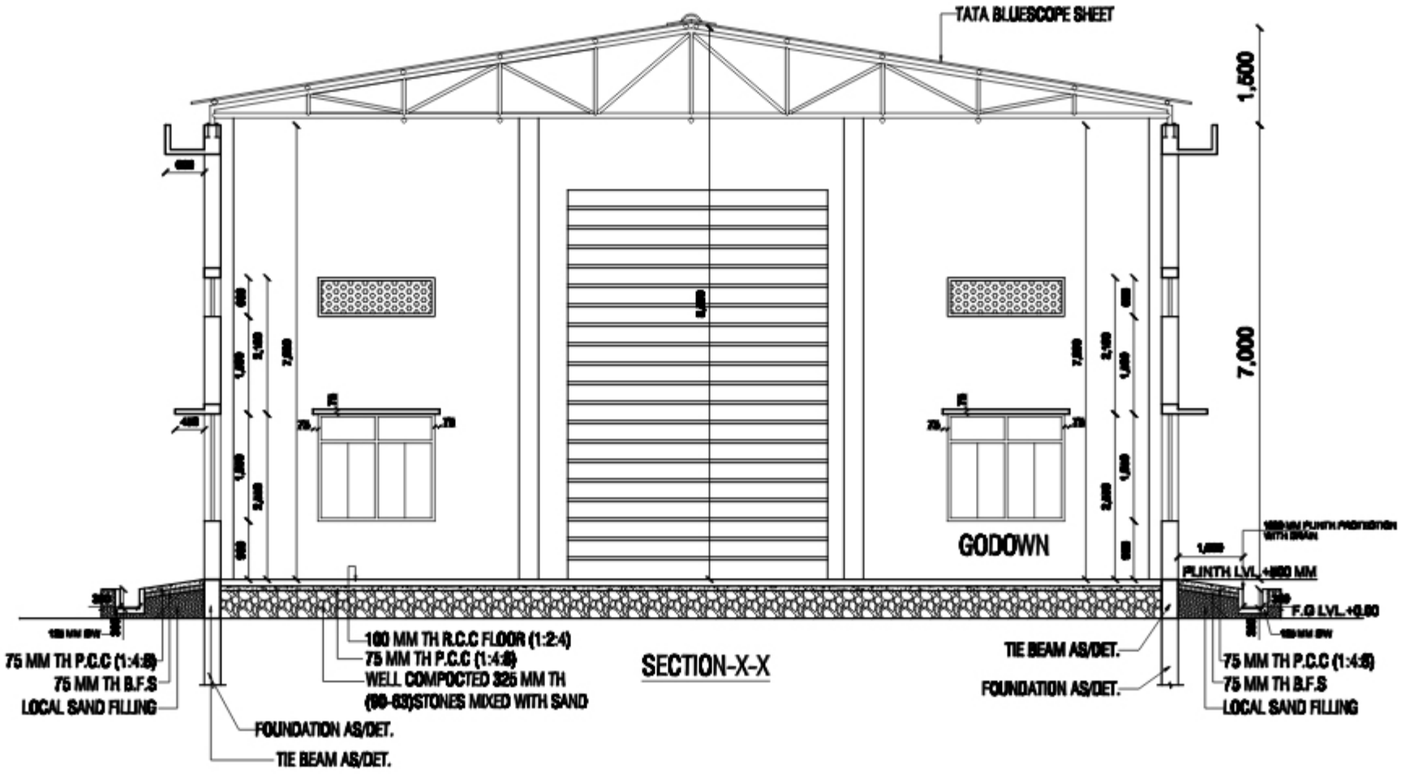
TITLE :- ELEVATIONS & SECTION-X-X

DRN BY:-	CHECKED BY:-
RAGHUNANDAN	

DRG.NO:-	REV. :-	NORTH :-
AR-[illegible]		
SCALE :-	DATE :-	
N.T.S	[illegible]	



FRONT ELEVATION & BACK ELEVATION



SECTION-X-X

NO	REVISION	DATE

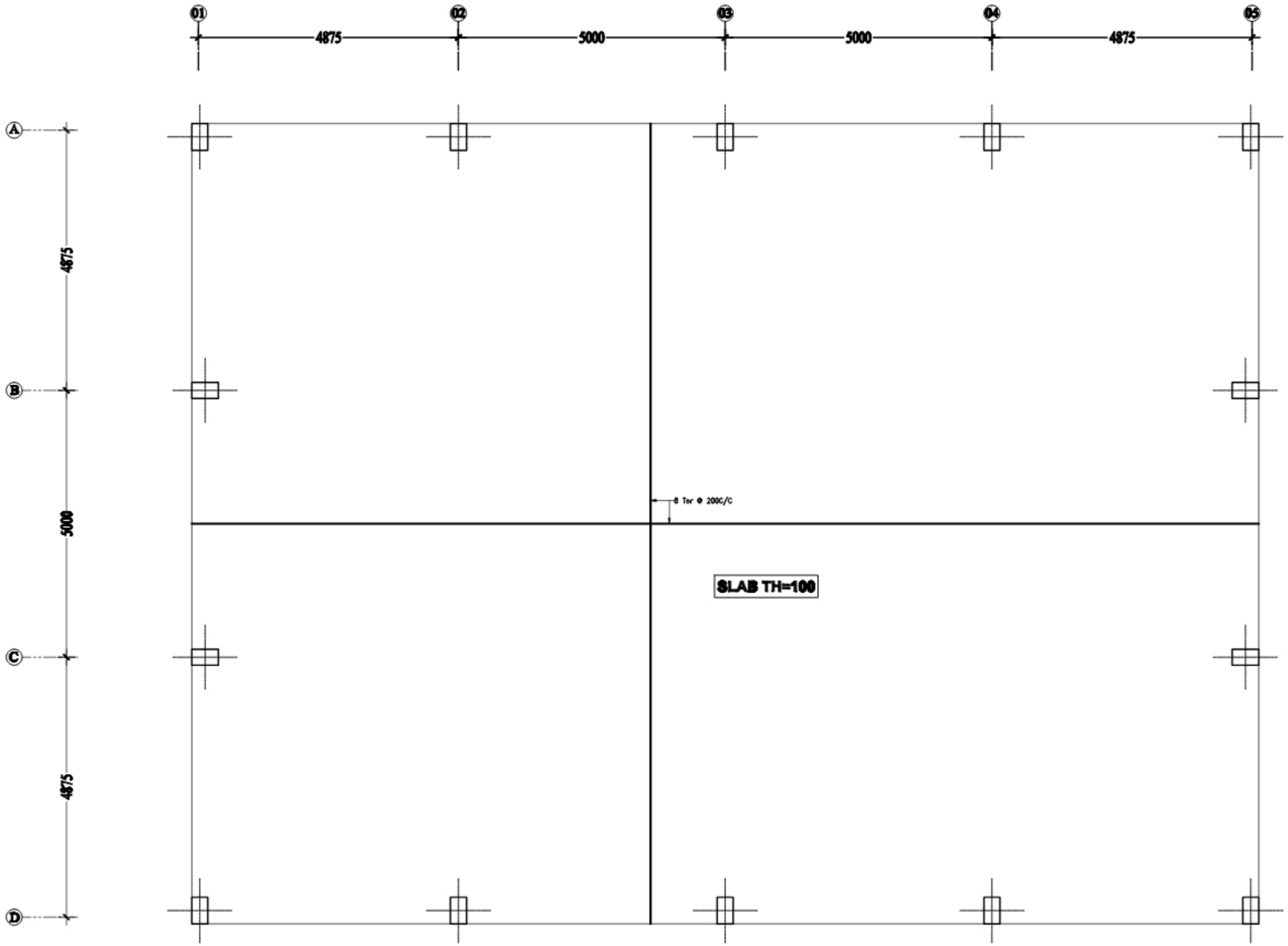
PROJECT :-
400/220 KV. G.I.S STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS INT. DESIGNER
[illegible] GANESH APARTMENT
NAGESHWAR COLONY
BORING ROAD PATNA
PH. [illegible]

TITLE :- ELEVATIONS & SECTION-X-X

DRN BY:-	CHECKED BY:-
BAGHUNANDAN	

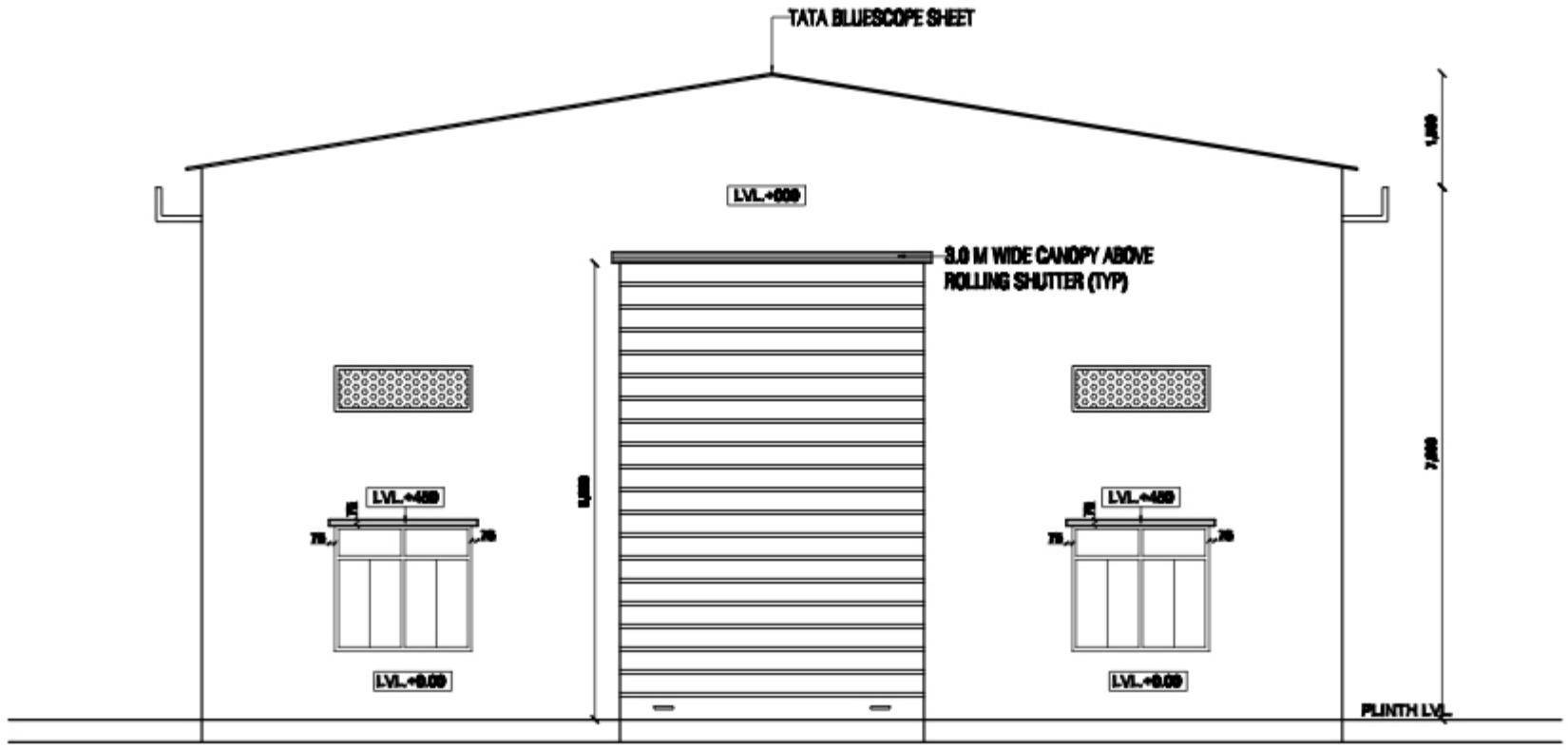
DRG.NO:-	REV. :-	NORTH :-
AR-W04		
SCALE :-	DATE :-	
N.T.S	[illegible]	



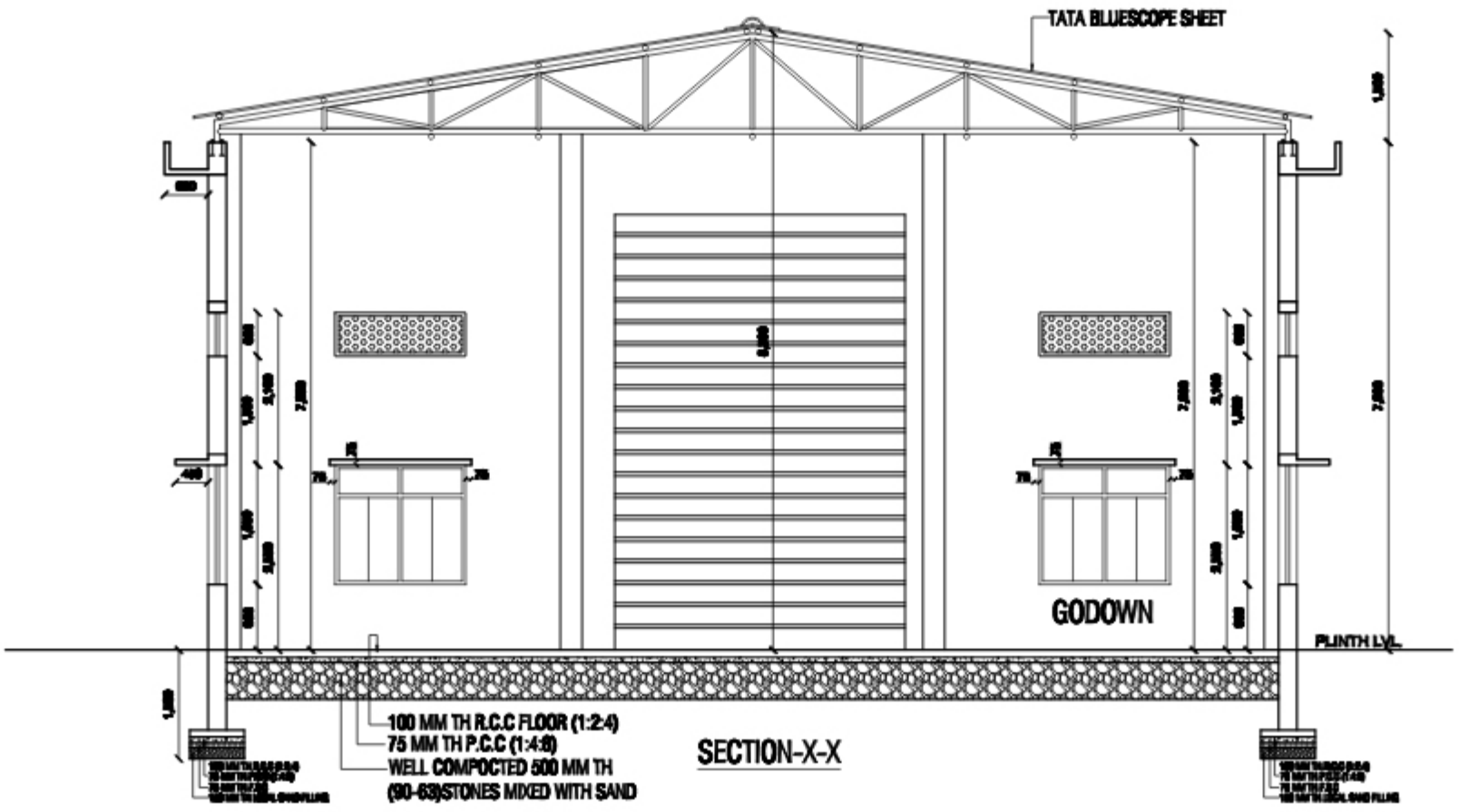
FLOORING DET OF PLINTH LV.

REVISION No.	DATE	PARTICULARS	DRAWN	CKED	APPRD

PROJECT No.	TITLE:– FLOORING DET.OF PLINTH LV.
DRAWN BY [redacted]	WORK:– G.I.S STORE AT PURNEA
APPRD	CLIENT:– POWER GRID CORPORATION
SCALE 1:50	ARCHITECT:– INTERFACE ARCHITECTS (P) LTD.
DT:20.06.2019	
DRG.No. S-5 / REV	SDCON STRUCTURAL DESIGNERS, CIVIL ENGINEERS HN= L2/11, SOUTH S K PURI, PATNA



FRONT ELEVATION



SECTION-X-X

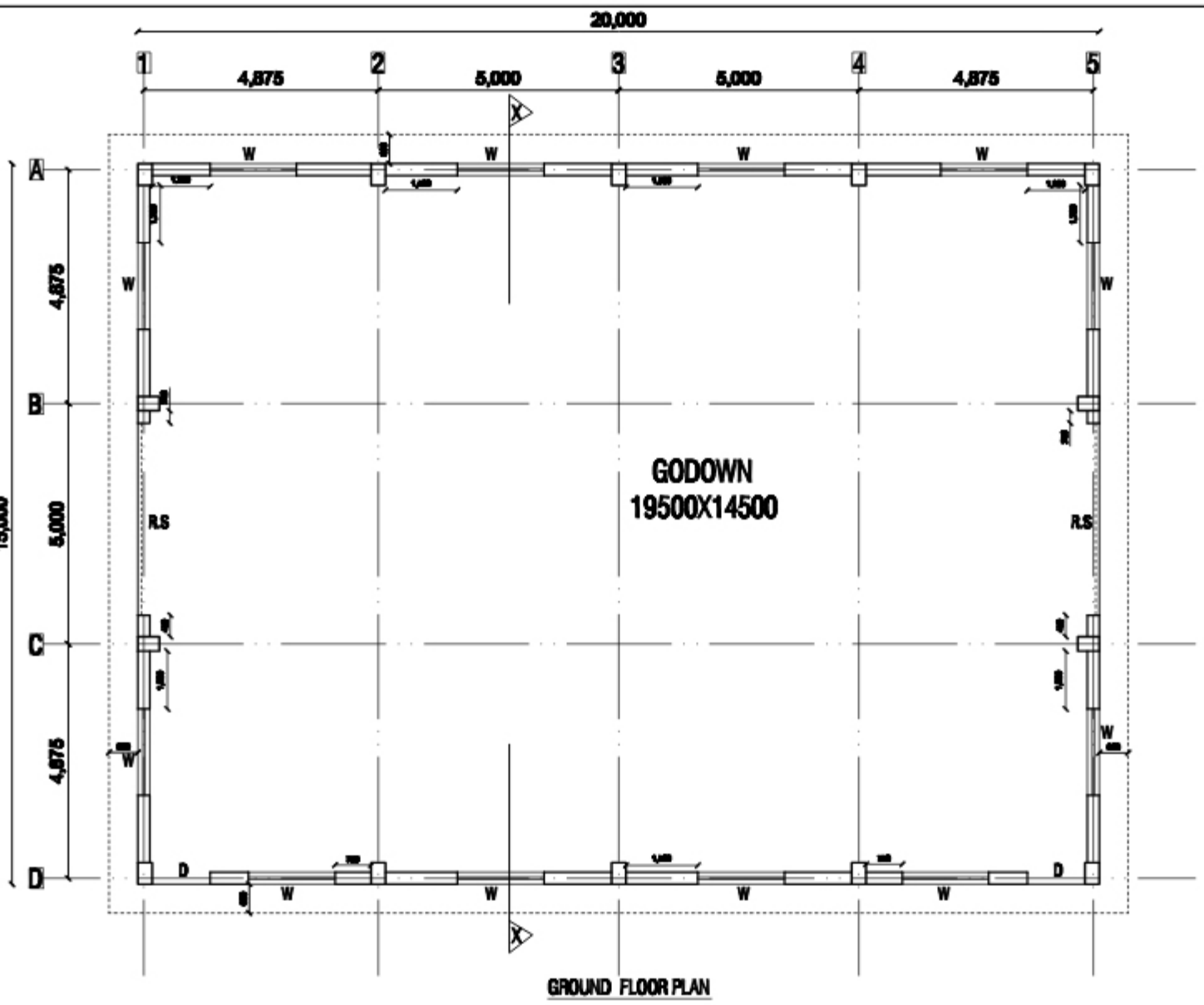
NO	REVISION	DATE

PROJECT:-
400/220 KV. GIS STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

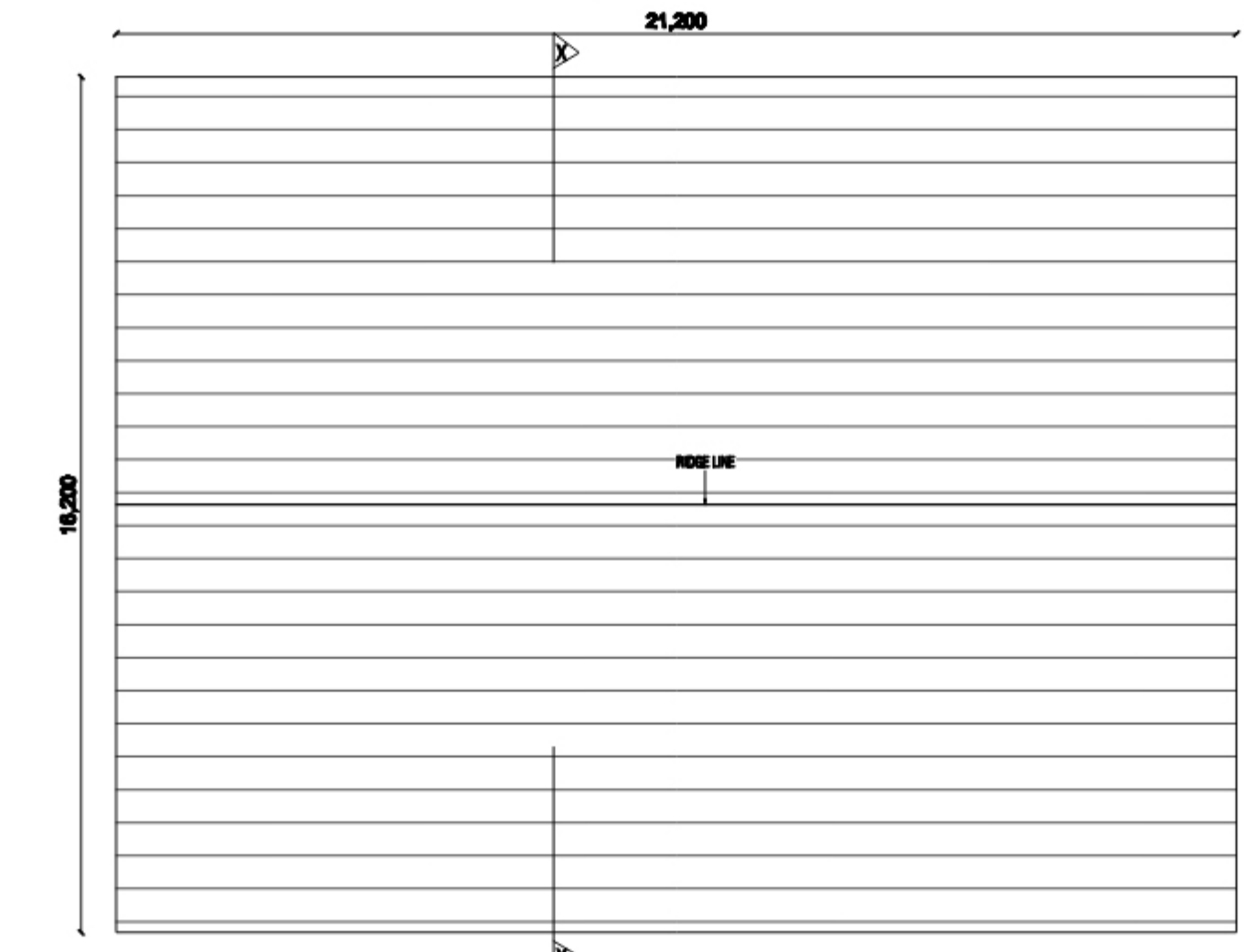
ARCHITECT:-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS DECORATORS
GHANSHYAM GANESH APARTMENT
KASHISWAR CRESENT
BORING ROAD PATNA
PH.2301.040

TITLE:- FRONT ELEVATION &SECTION-X-X

DRN BY:-	CHECKED BY:-	
RAGHUNANDAN		
DRG.NO:- AR-708	REV.:-	SHEET:-
SCALE:- NTS	DATE:- 23-10-2017	



GROUND FLOOR PLAN



TERRACE FLOOR PLAN

SCHEDULE OF DOOR & WINDOWS

TYPE	WIDTH	HEIGHT	CIL.LEV	LIN.LEV	DESCRIPTION
D	1200	2400	0.00	2400	AS / DETAIL
W	1800	1500	900	2400	AS / DETAIL
					" "
R.S	4000	6000	0.00	6000	ROLLING SHUTTER

NO	REVISION	DATE

PROJECT :-
400/220 KV. GAS STORE
PURNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS INT. DESIGNERS
604,BINCE GANESH APARTMENT
NAREENWAR COLONY
BEHIND ROAD RACING
PH. 2351.00

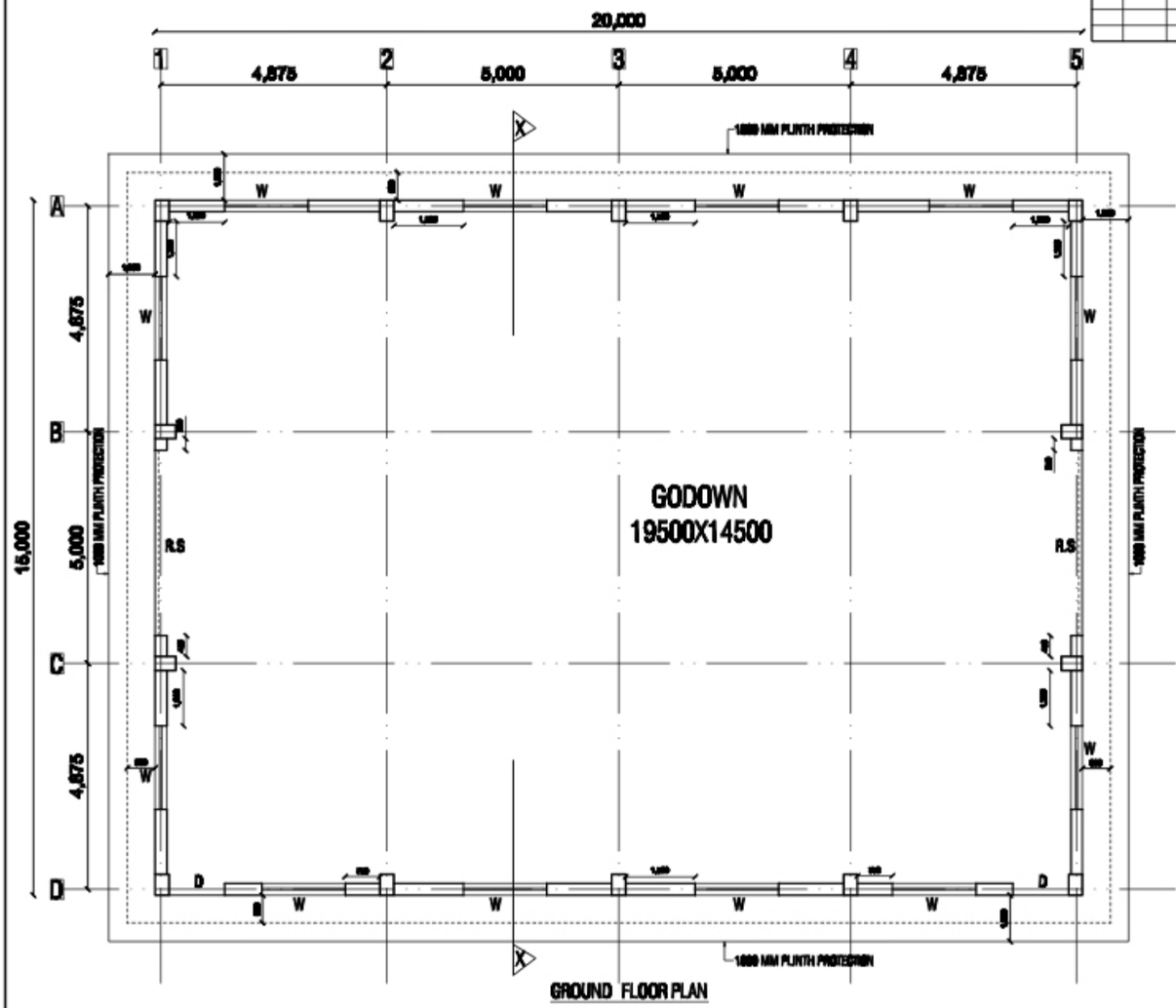
TITLE :- GROUND &TERRACE FLOOR PLAN

DRN BY:-	CHECKED BY:-
RAGHUNANDAN	

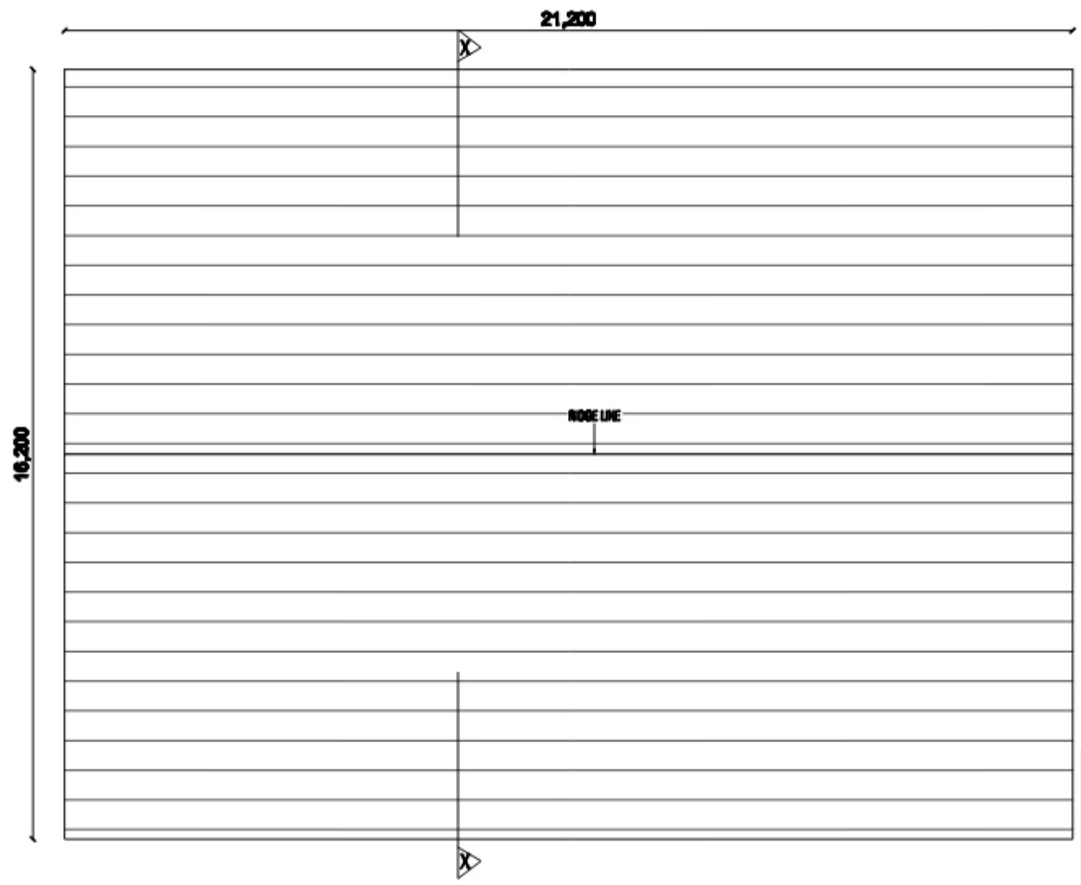
DRG.NO:-	REV.:-	SHEET:-
AR-701		

SCALE:-	DATE:-
NTS	29-10-2017

SCHEDULE OF DOOR & WINDOWS					
TYPE	WIDTH	HEIGHT	CILLEY	LEVLEY	DESCRIPTION
D	[illegible]	[illegible]	[illegible]	[illegible]	AS/DETAIL
W	[illegible]	[illegible]	[illegible]	[illegible]	AS/DETAIL
R.S	[illegible]	[illegible]	[illegible]	[illegible]	ROLLING SHUTTER



GROUND FLOOR PLAN



TERRACE FLOOR PLAN

NO	REVISION	DATE

PROJECT :-
[illegible] KV. G.I.S STORE
PORTUGAL
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-
INTERFACE ARCHITECTS (P) LTD.
ARCHITECTS ENGINEERS INTERIOR
[illegible]
[illegible]
[illegible]
[illegible]

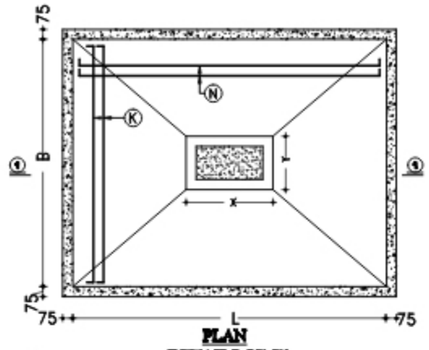
TITLE :- GROUND &TERRACE FLOOR PLAN

DRN BY:-	CHECKED BY:-
[illegible]	

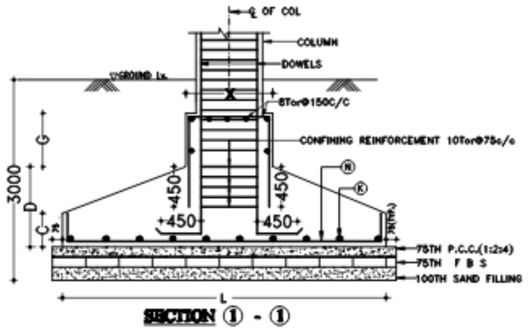
DRG.NO:-	REV. :-	NORTH:-
AR-[illegible]		
SCALE :-	DATE :-	
[illegible]	[illegible]	

FOOTING SCHEDULE :-

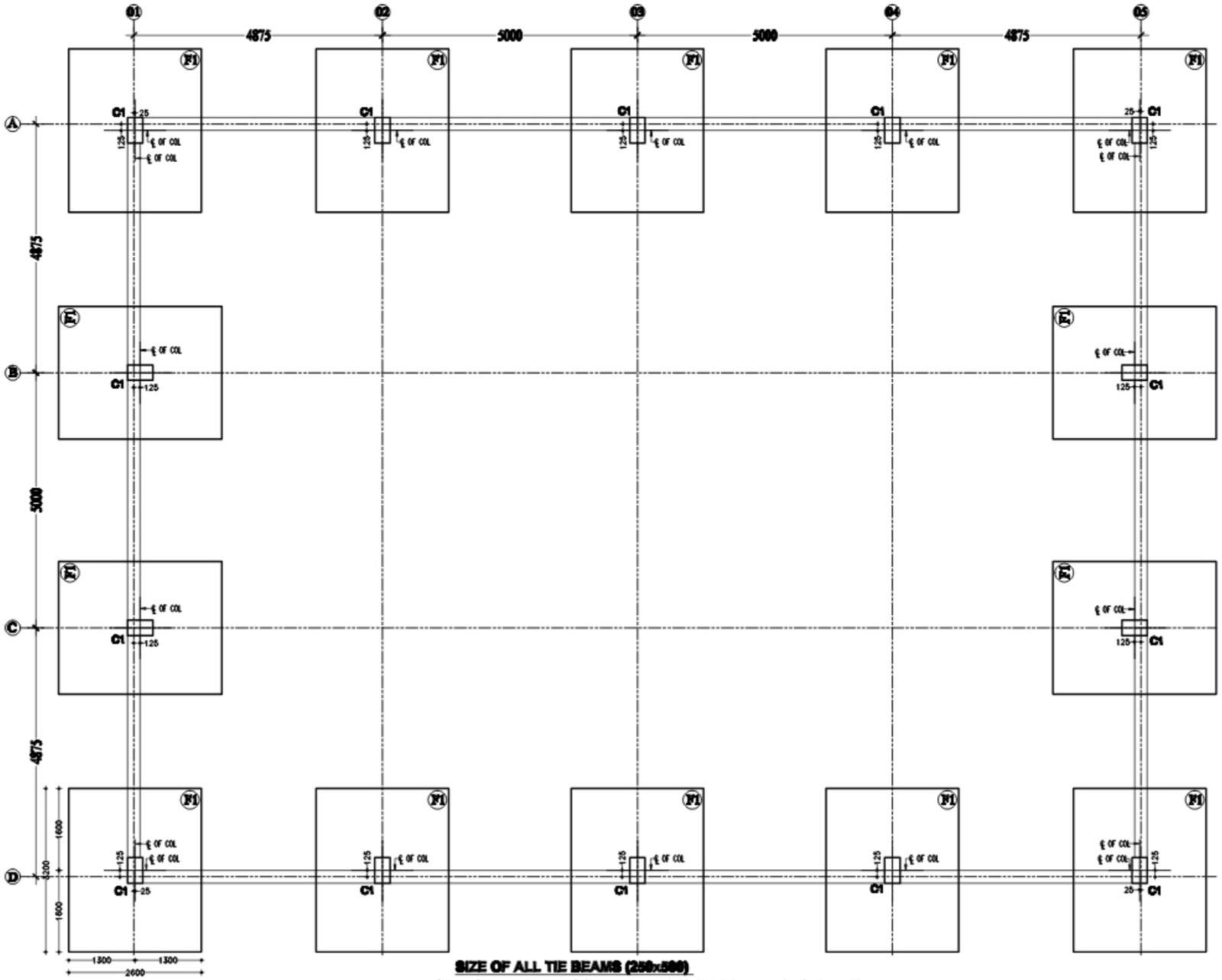
FOOTING MARKED	FOOTING SIZE		D	C	PEDESTAL SIZE			REINFORCEMENT	
	L	B			X	Y	G	N	K
F1	3200	2600	550	150	650	450	150	18-12Tor	21-12Tor



PLAN
DETAILS OF F1



SECTION ① - ①

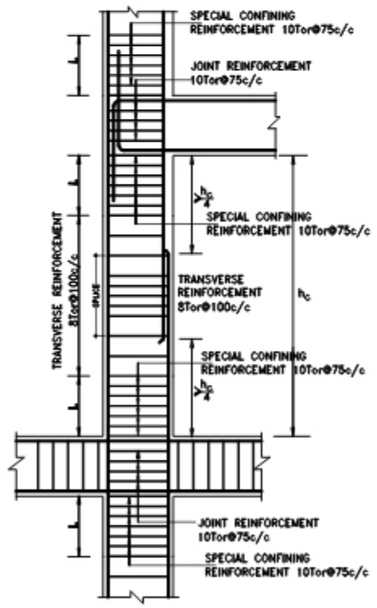


SIZE OF ALL TIE BEAMS (250x500)

TOP Lv. OF ALL TIE BEAMS SHALL BE AT FINISHED PLINTH LV. (EXCEPT MKD)

COLUMN SCHEDULE

FOUNDATION TO TOP Lv	COLUMN SIZE	L	300
		B	300
	CONCRETE MIX		M-30
	SECTION WITH MAIN STEEL		8-20Tor
	LINKS SEE DETAIL-2		
	COLUMN MKD		C1



COLUMN AND JOINT DETAILING
(ACCORDING TO IS 13920:1993)

NOTES:-
1. SHALL NOT BE LESS THAN
   (a) LARGER LATERAL DIMENSION OF THE MEMBER AT THE SECTION
   (b) 1/6 OF CLEAR SPAN OF THE MEMBER.
   (c) 450mm.
for CLEAR HEIGHT OF THE MEMBER.

FOUNDATION FOR GROUND+1 STOREYED ONLY

NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M30.
3. Y REPRESENTS TOR STEEL. YIELD STRENGTH 415 N/mm².
4. ALL CONCRETE SHALL BE RAISED MOOD AND RAISED VERTICAL.
5. CLEAR COVER TO MAIN STEEL 40 MM IN FOOTING, 50mm IN SLAB, 50mm IN COLUMN & 25mm IN BEAMS.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWING BEFORE IF ANY DETAILS IS SUBMIT TO THE NOTICE OF THE CONSULTING ENGINEERS.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOT NOT SPECIFIED SHALL BE METRIC UNITS.
9. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. BEARING CAPACITY OF SOIL ASSUMED AS 0.0 N/mm².
11. DEPTH OF FOUNDATION SHALL BE DECIDED ON NATURAL GROUND LV.
12. LAP LENGTH FOR VERTICAL BAR 40x BAR DIA.
13. SPACING OF LINKS SHALL BE REDUCED TO CLOSE AT LOCATION AS SHOWN IN DETAIL
14. COLUMN BARS SHALL BE LAPPED IN THE ZONE OF SECTIONS AND SECURED TO THE FLOOR LV. AS SHOWN IN DETAIL
15. NOT TO BE USED FOR CONCRETING OF COLUMN SHALL BE MIX

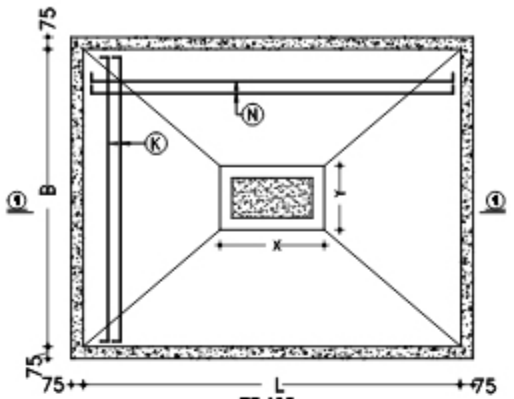
REVISION No.	DATE	PARTICULARS	DRAWN	CHKED	APPRD

PROJECT No.	TITLE:– LAYOUT, FOUNDATION & TIE BEAM PLAN
DRAWN BY Alok kumar	WORK:– G.I.S STORE PURNEA
APPRD	CLIENT:– POWER GRID CORPORATION
SCALE 1:50	ARCHITECT:– INTERFACE ARCHITECTS (P) LTD.
DT:20.12.2018	
DRG.No. S-1	REV

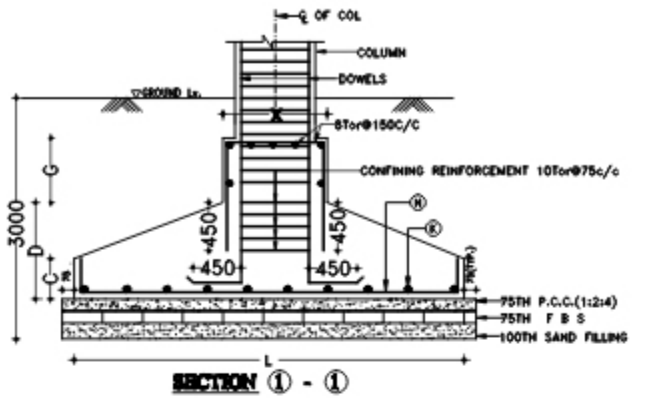
SDCON
STRUCTURAL DESIGNERS, CIVIL ENGINEERS
H– 13/11, SOUTH S C PUR, PATNA

FOOTING SCHEDULE :-

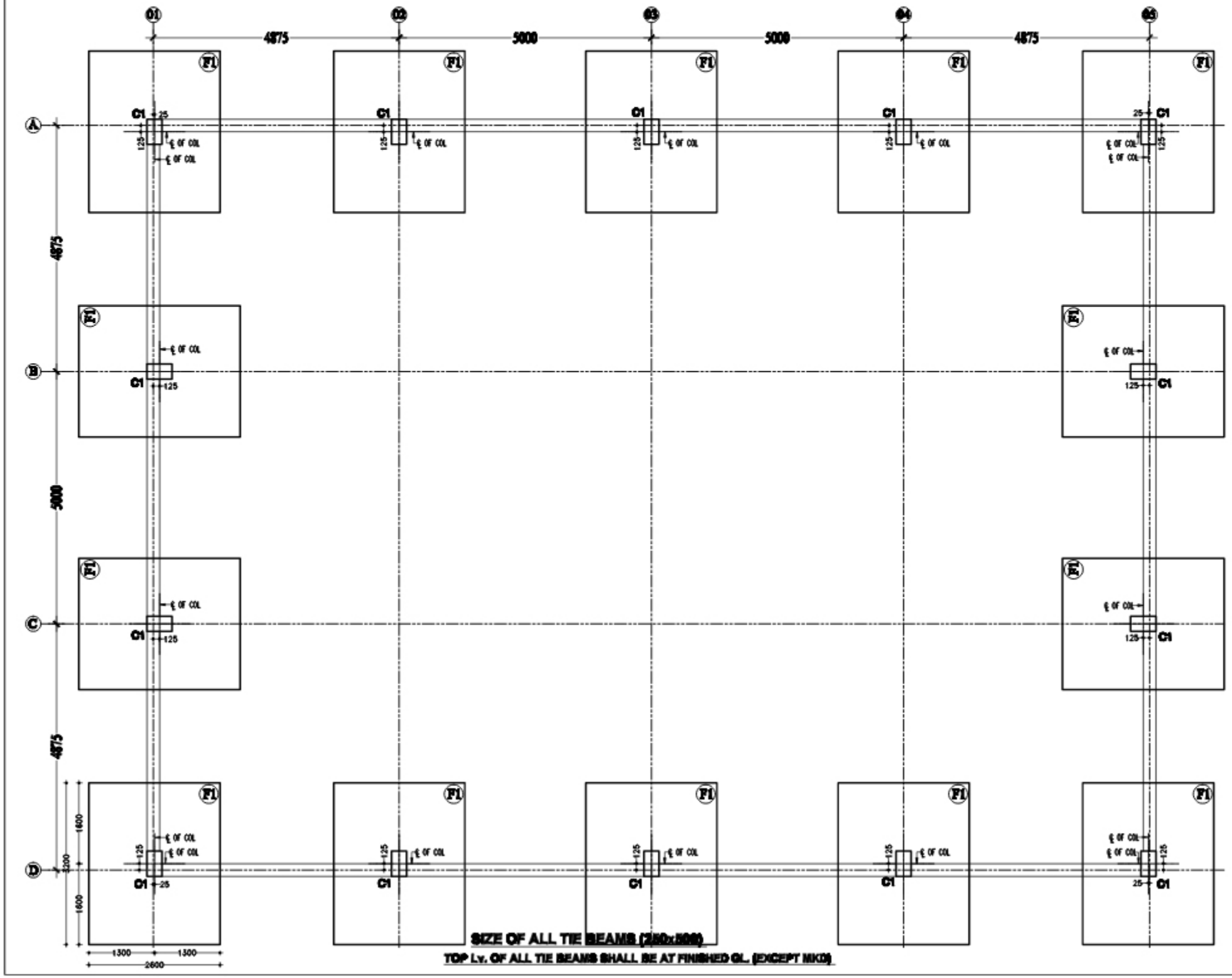
FOOTING MARKED	FOOTING SIZE		D	C	PEDESTAL SIZE			REINFORCEMENT	
	L	B			X	Y	G	N	K
F1	3200	2600	550	150	650	450	150	18-12Tor	21-12Tor



PLAN
DETAILS OF F1



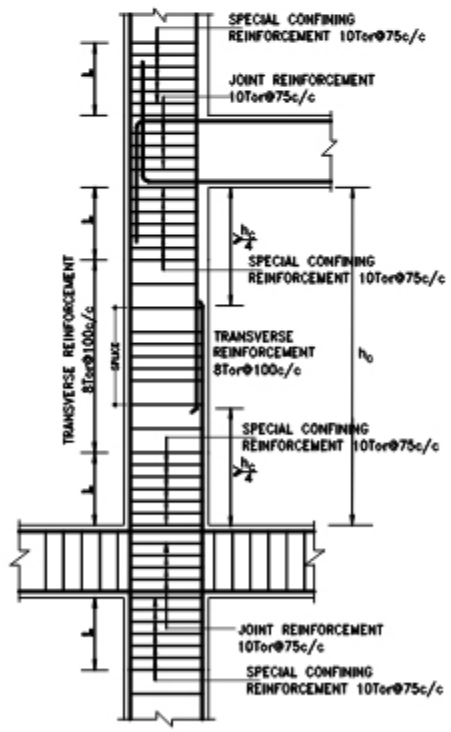
SECTION ① - ①



SIZE OF ALL TIE BEAMS (250x500)
TOP Lv. OF ALL TIE BEAMS SHALL BE AT FINISHED GL. (EXCEPT MKD)

COLUMN SCHEDULE

FOUNDATION TO TOP Lv			
	COLUMN SIZE	L	300
		B	300
	CONCRETE MIX		M-20
	SECTION WITH MAIN STEEL		8-20Tor
	LINKS SEE DETAIL-B		
COLUMN MKD			C1



COLUMN AND JOINT DETAILING
(ACCORDING TO IS 13920:1993)

FOUNDATION FOR GROUND+1 STOREYED ONLY

NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE IS M-20.
3. Fy REINFORCEMENT STEEL : Fy=415N/mm² (Fe 415).
4. ALL CONCRETE SHALL BE ENGINE MIXED AND ENGINE VIBRATED.
5. CLEAR COVER TO MAIN STEEL IS 50 MM IN FOOTING, 40mm IN SLAB, 25mm IN BEAM & 40mm IN COLUMN.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE CHECKED WITH THE ARCHITECTURAL DRAWING BEFORE ANY SHABLE IS SUBMITTED TO THE NOTICE OF THE CONSULTING ENGINEERS.
8. ALL [illegible]
COLUMN FOOTING SHALL BE DOWELLED.
9. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. BEARING CAPACITY OF SOIL ASSUMED AS 3 KG/SQ.CM.
11. DEPTH OF FOUNDATION SHALL BE 2000 MM BELOW NATURAL GROUND LV.
12. LAP LENGTH FOR VERTICAL BAR=45 x DIA MM.
13. STAGGERED LAP LENGTH SHALL BE PROVIDED AT LOCATION AS SHOWN IN SECT-E
14. COLUMN BARS SHALL BE LAPPED IN THE ZONE OF GROUND AND NOT BELOW THE PLINTH LV. AS SHOWN IN SECT-E
15. HOOKS IN MAIN REINFORCEMENT SHALL BE MIN

REVISION No.	DATE	PARTICULARS	DRAWN	CHKD	APPRD

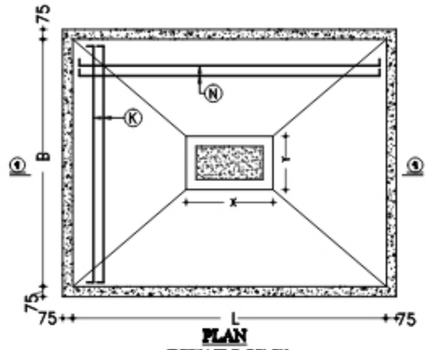
NOTES:-
L= SHALL NOT BE LESS THAN
(a) LARGER LATERAL DIMENSION OF THE MEMBER AT THE SECTION WHERE THE BAR OCCURS.
(b) 1/6 OF CLEAR SPAN OF THE MEMBER.
(c) 450mm.
hc= CLEAR HEIGHT OF THE MEMBER.

PROJECT No.	TITLE:- LAYOUT, FOUNDATION & TIE BEAM PLAN
DRAWN BY	WORK:- G.I.S STONE PURNEA
APPRD	CLIENT:- POWER GRID CORPORATION
SCALE 1:50	ARCHITECT:- INTERFACE ARCHITECTS (P) LTD.
DT:20.12.2018	
DRG.No. S-1	REV

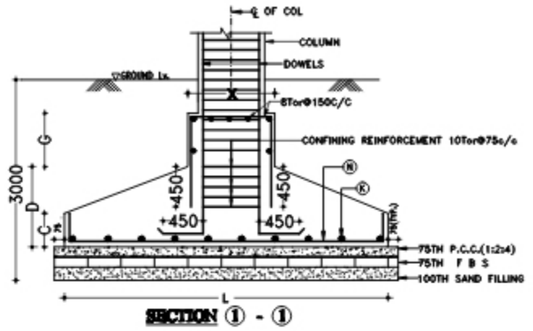
SDCON
STRUCTURAL DESIGNERS, CIVIL ENGINEERS
PH- 12/11, SOUTH S K PURI, PATNA

FOOTING SCHEDULE :-

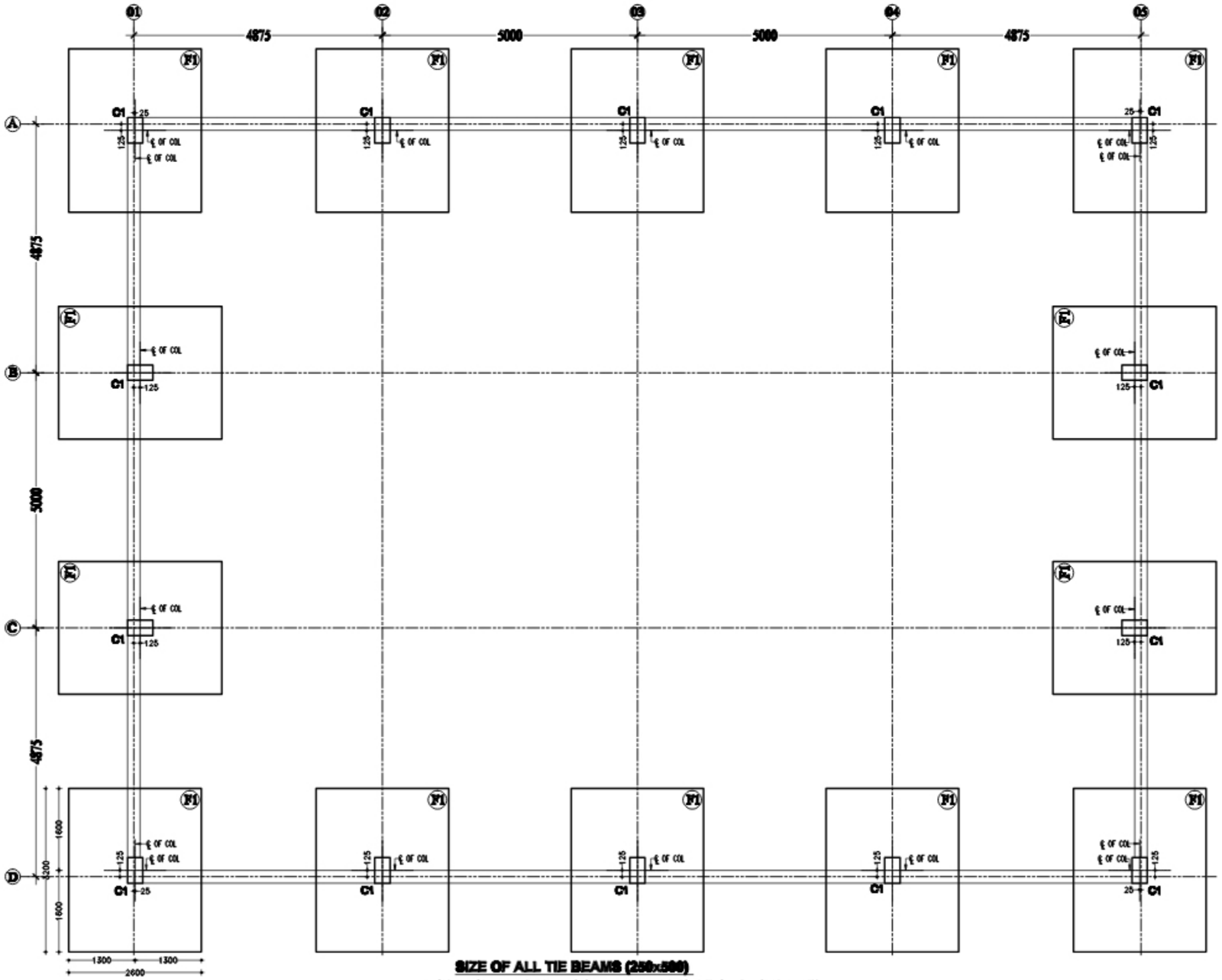
FOOTING MARKED	FOOTING SIZE		D	C	PEDESTAL SIZE			REINFORCEMENT	
	L	B			X	Y	G	N	K
F1	3200	2600	550	150	650	450	150	18–12Tor	21–12Tor



PLAN
DETAILS OF F1



SECTION ① - ①

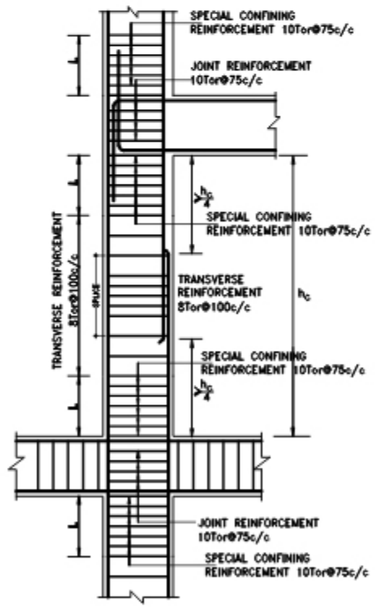


SIZE OF ALL TIE BEAMS (250x500)

TOP Lv. OF ALL TIE BEAMS SHALL BE AT FINISHED GL. (EXCEPT MKD)

COLUMN SCHEDULE

FOUNDATION TO TOP Lv			
	COLUMN SIZE	L	300
		B	300
	CONCRETE MIX		M-20
	SECTION WITH MAIN STEEL		8-20Tor
	LINKS SEE DETAIL-2		
	COLUMN MKD		C1



COLUMN AND JOINT DETAILING
(ACCORDING TO IS 13920:1993)

NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M20.
3. Y REPRESENTS YIELD STRESS. YIELD STRENGTH OF HYSD BARS IS 415N/mm².
4. ALL CONCRETE SHALL BE VIBRATED WELL AND VIBRATOR USED VERTICAL.
5. CLEAR COVER TO MAIN STEEL 40 MM IN FOOTING, 50mm IN SLAB, 25mm IN BEAM & 40mm IN COLUMN.
6. ALL DIMENSIONS ARE TO BE READ BUT NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWING BEFORE ANY WORK IS PUT IN HAND IN THE EVENT OF ANY DISCREPANCY THE DECISION OF THE ENGINEER SHALL BE FINAL.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
9. ALL CONCRETE SHALL BE MACHINE MIXED.
10. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
11. BEARING CAPACITY OF SOIL ASSUMED AS 2 KG/SQ.CM.
12. DEPTH OF FOUNDATION SHALL BE DECIDED ON NATURAL GROUND LEVEL.
13. LAP LENGTH FOR VERTICAL BAR 40 x DIA DIA.
14. BENDING OF LINKS SHALL BE ROUND TO 135 DEGREE AT 4 DIA AS SHOWN IN DETAIL
15. COLUMN BARS SHALL BE LAPPED IN THE ZONE OF SUPPORT AND NOT IN THE PLACE LV. AS SHOWN IN DETAIL
16. NOT TO BE USED FOR CONCRETING OF COLUMN SHALL BE MIX

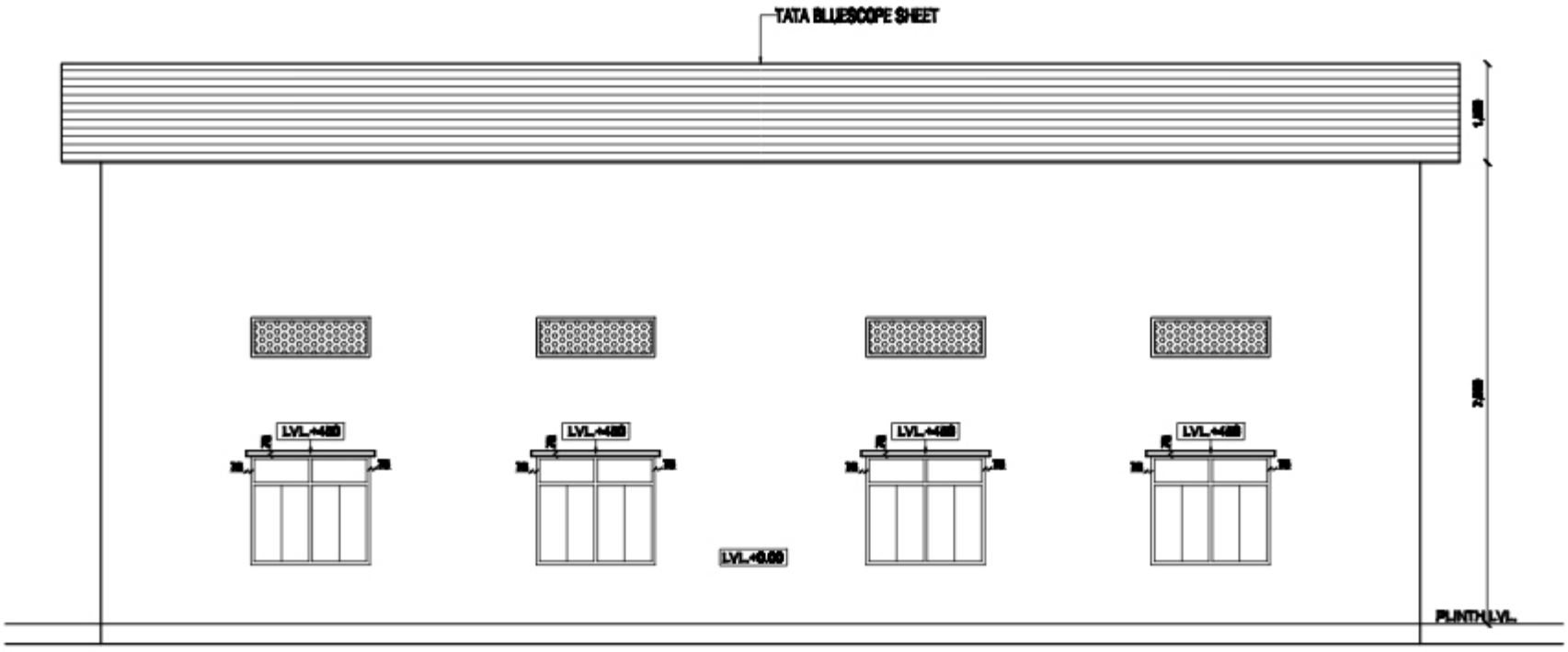
FOUNDATION FOR GROUND+1 STOREYED ONLY

REVISION No.	DATE	PARTICULARS	DRAWN	CHKD	APPRD

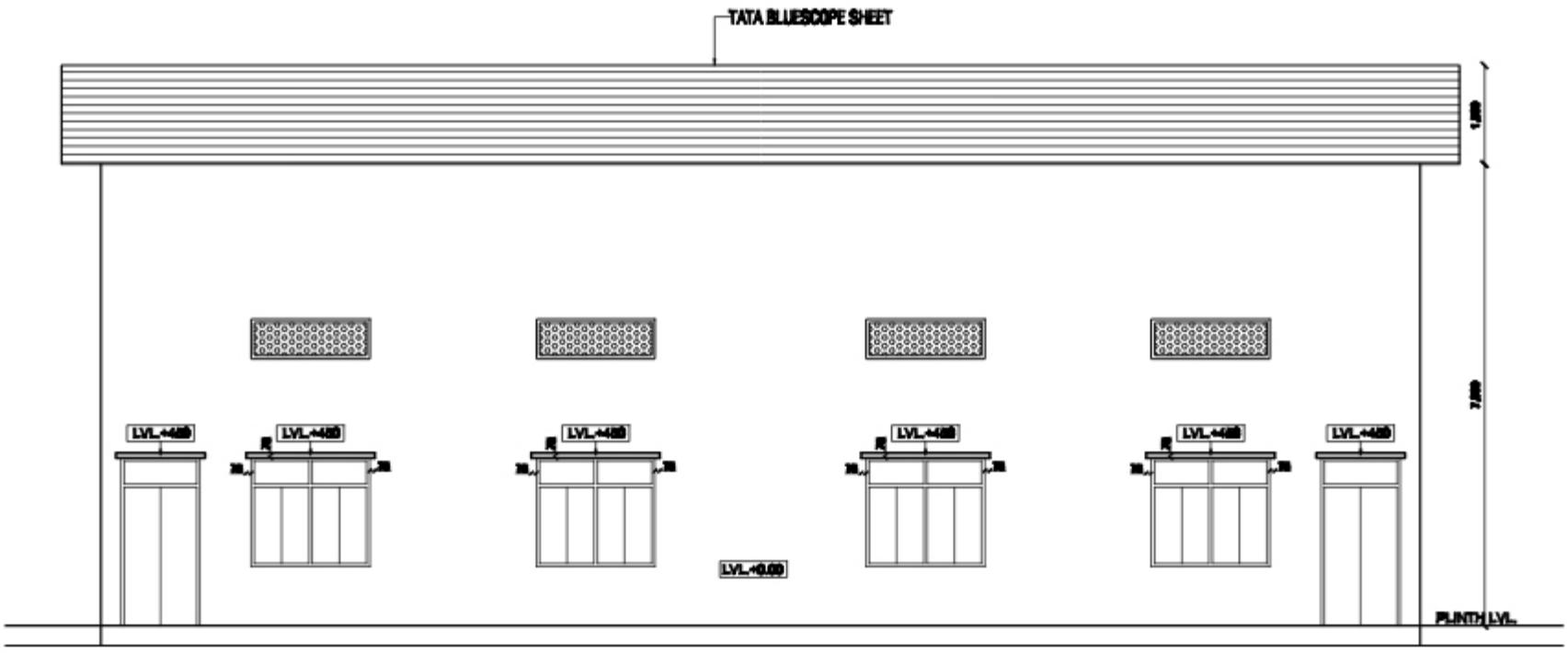
PROJECT No.	TITLE:– LAYOUT, FOUNDATION & TIE BEAM PLAN
DRAWN BY Alok kumar	WORK:– G.I.S STORE PURNEA
APPRD	CLIENT:– POWER GRID CORPORATION
SCALE 1:50	ARCHITECT:– INTERFACE ARCHITECTS (P) LTD.
DT:20.12.2018	
DRG.No. S-1	REV

SDCON
STRUCTURAL DESIGNERS, CIVIL ENGINEERS
H– 13/11, SOUTH S C PUR, PATNA

NOTES:-
1. SHALL NOT BE LESS THAN
(a) LARGER LATERAL DIMENSION OF THE MEMBER AT THE SECTION THROUGH YIELDING OCCURS.
(b) 1/6 OF CLEAR SPAN OF THE MEMBER.
(c) 450mm.
for CLEAR HEIGHT OF THE MEMBER.



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

NO	REVISION	DATE

PROJECT :-

40X30 KV. GLS STORE
PUDUCHERRY
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-

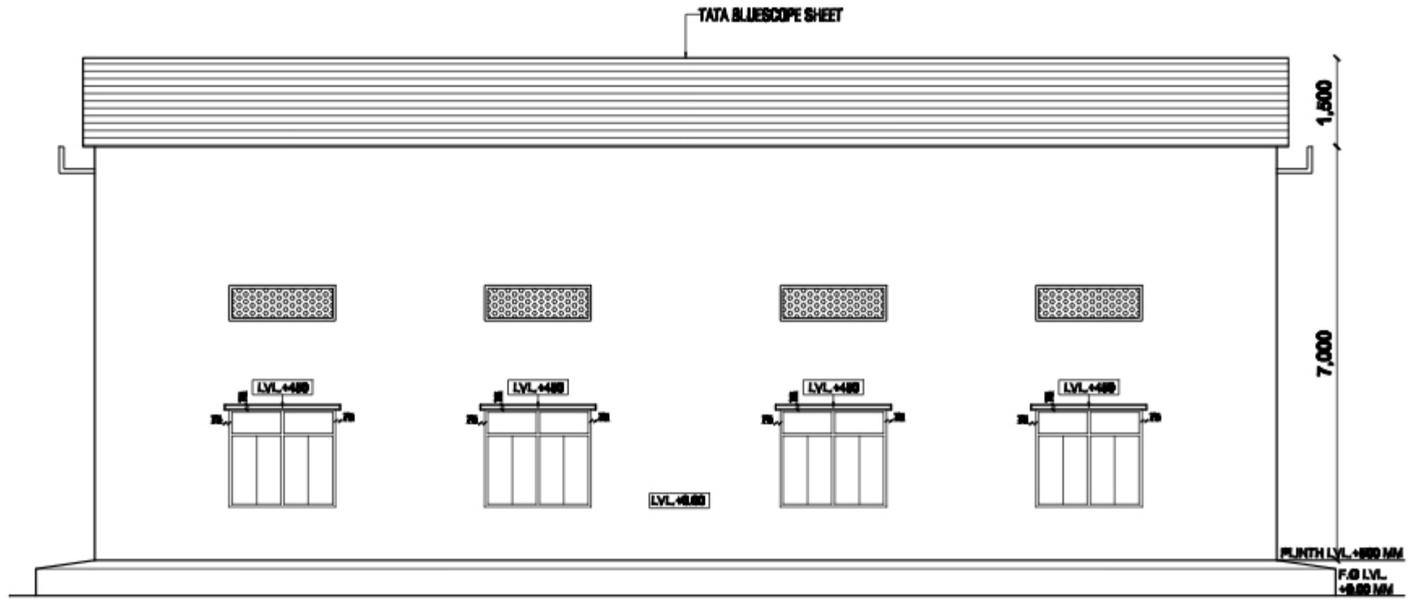
INTERFACE ARCHITECTS (P) LTD.
ARCHITECTS ENGINEERS INTERIORS
GREENS CAVERY APARTMENT
KAMARAJAR CHALAI
THENDRAL NAGAR, MADURAI.
PH: 2604 408

TITLE :-

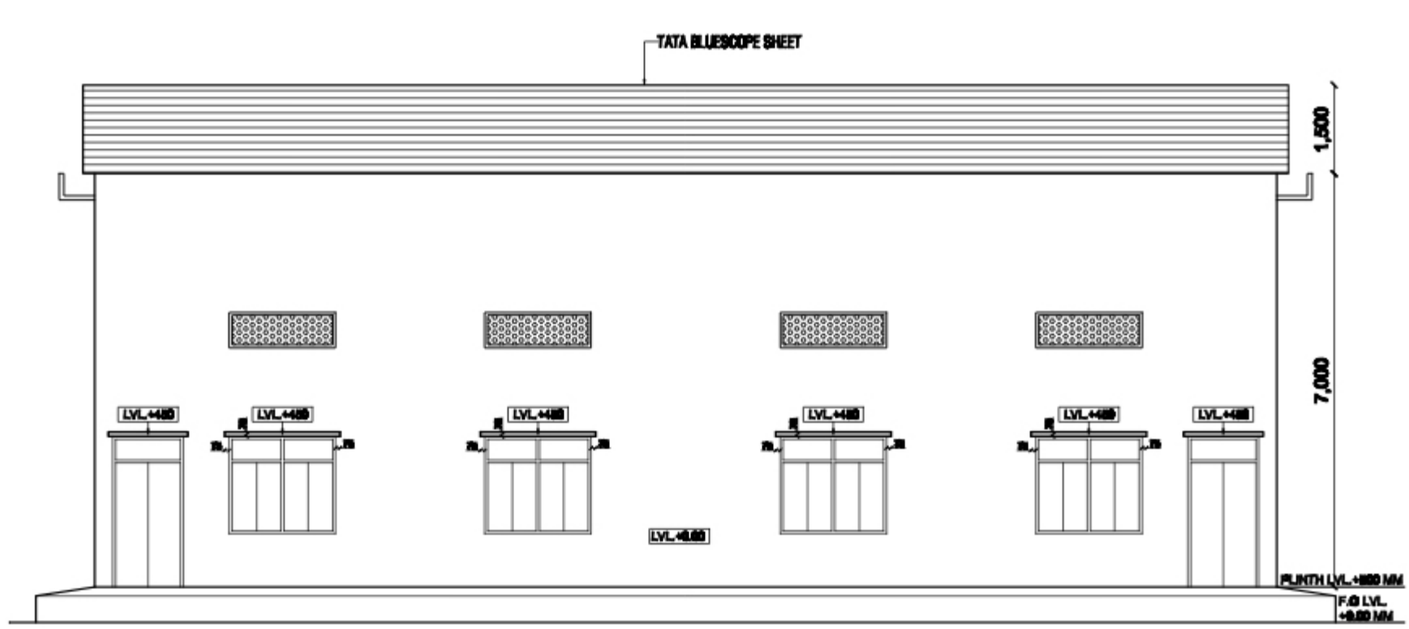
RIGHT SIDE ELEVATION & LEFT SIDE ELEVATION

DRN BY:-	CHECKED BY:-
RAMESHKUMAR	

DRG.NO:-	REV.:-	SQUARE :-
AR-708		
SCALE :-	DATE :-	
NTS	25-10-2017	



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

NO	REVISION	DATE

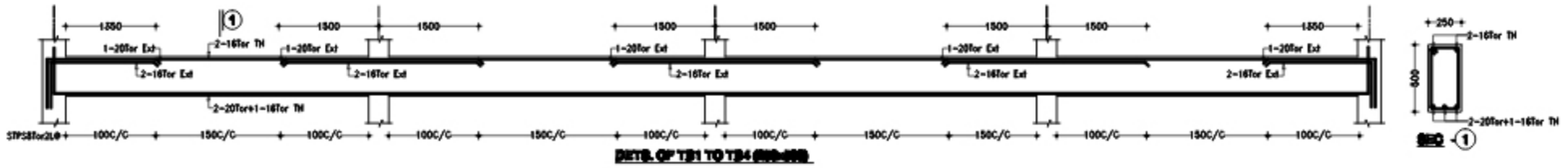
PROJECT :-
400/220 KV. GIS STORE
PUNEA
POWERGRID CORPORATION OF INDIA LTD.

ARCHITECT :-
INTERFACE ARCHITECTS (P)LTD.
ARCHITECTS ENGINEERS INT. DESIGNER
[illegible]
[illegible]
[illegible]
PH.[illegible]

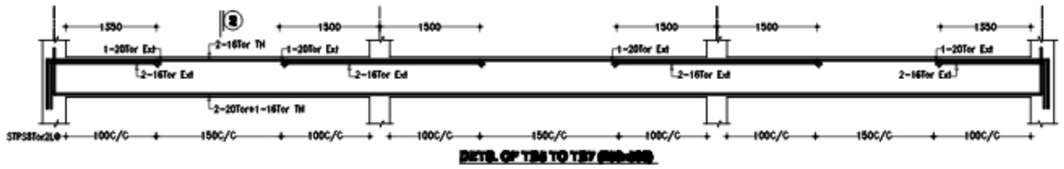
TITLE :-
RIGHT SIDE ELEVATION & LEFT SIDE ELEVATION

DRN BY:- RAGHUNANDAN	CHECKED BY:-

DRG.NO:- AB-[illegible]	REV. :-	NORTH :-
SCALE :- NTS	DATE :- [illegible]	

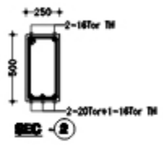


DETL. OF TB1 TO TB4 (250x600)

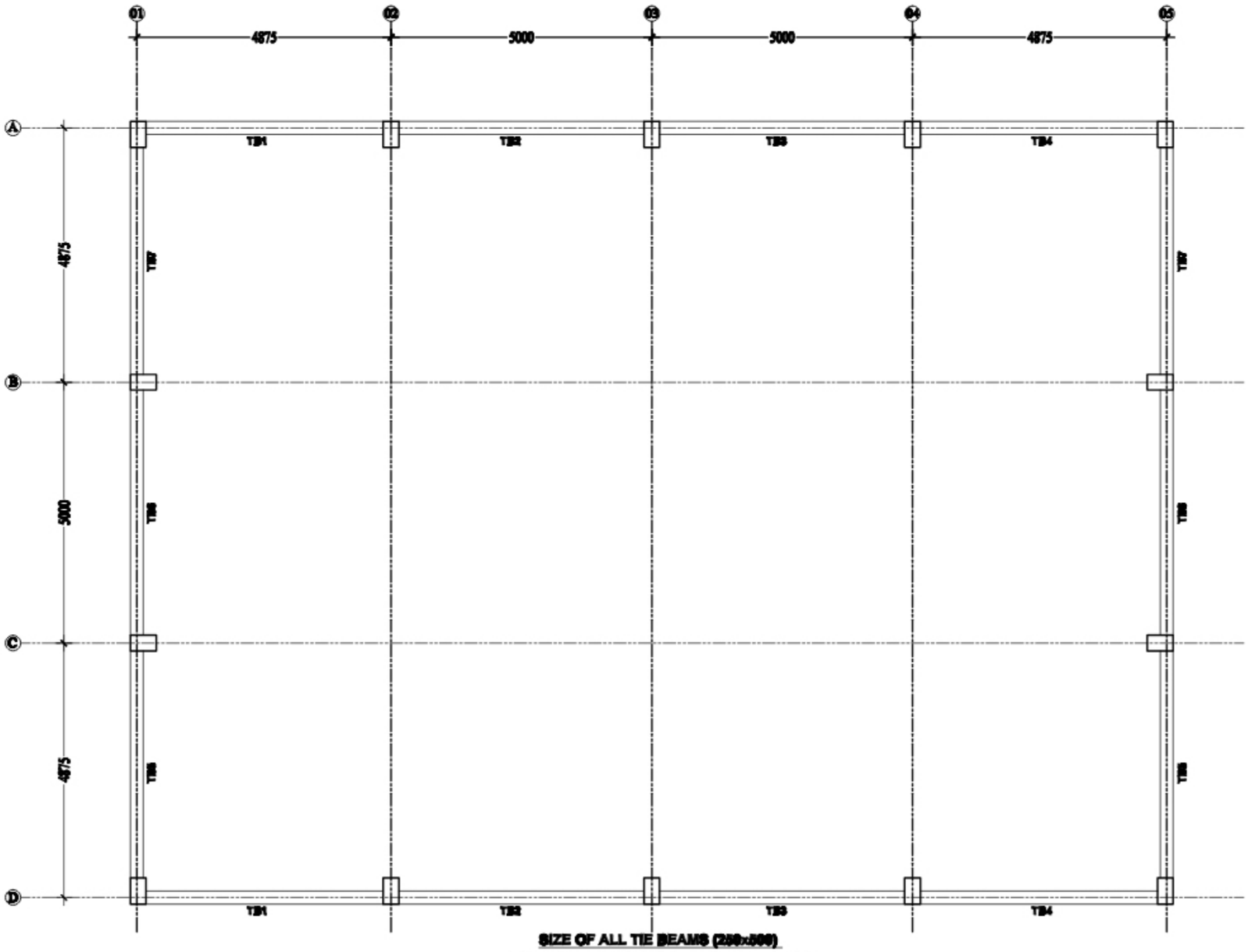


DETL. OF TB5 TO TB7 (250x600)

SEC -1



SEC -2



SIZE OF ALL TIE BEAMS (250x600)

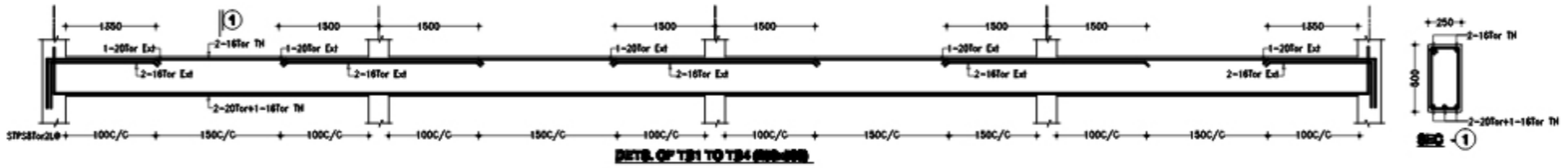
TOP Lv. OF ALL TIE BEAMS SHALL BE AT FINISHED GL.

NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M30.
3. Y DENOTES TMT STEEL. Y10,Y8=FE500(HYSD bars).
4. ALL CONCRETE SHALL BE VIBRATED WELL AND MACHINE VIBRATED.
5. CLEAR COVER TO MAIN STEEL 50mm FOR ALL 25mm IS ZINC 40mm IS GALVA.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE CHECKED WITH THE ARCHITECTURAL DRAWING. ANOMALY IF ANY SHALL BE INFORMED TO THE NOTICE OF THE CONSULTING ENGINEERS.
8. ALL INFORMATION AND MATERIAL REQUIRED BUT NOT SHOWN SHALL BE MADE GOOD.
9. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. ANCHORAGE OF BARS SHALL BE ACHIEVED WITH STANDARD HOOKS A DEVIATION OF MORE THAN 5% OF THE BAR DIA, BENDER REVERSED FROM PART OF THE DRAWING.

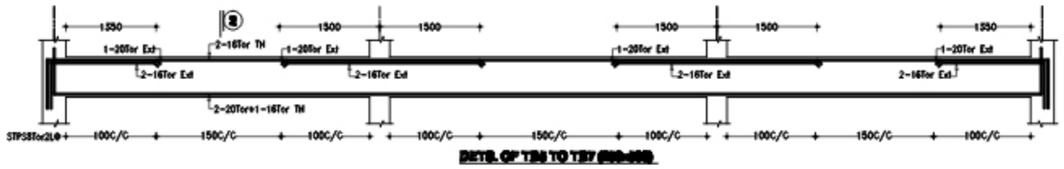
REVISION No.	DATE	PARTICULARS	DRAWN	CHKED	APPRD

PROJECT No.	TITLE:- **TIE BEAM PLAN & TIE BEAM DETAILS.**
DRAWN BY [redacted]	WORK:- **G.I.S STORE PURNEA**
APPRD	CLIENT:- **POWER GRID CORPORATION**
SCALE 1:50	ARCHITECT:- **INTERFACE ARCHITECTS (I) LTD.**
DT:18.03.2019	
DRG.No. **S-2**	REV.

SDCON
STRUCTURAL DESIGNERS, CIVIL ENGINEERS
HH- 12/11, SOUTH S K PUR, PATNA

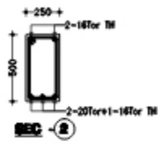


DETL. OF TB1 TO TB4 (250x600)

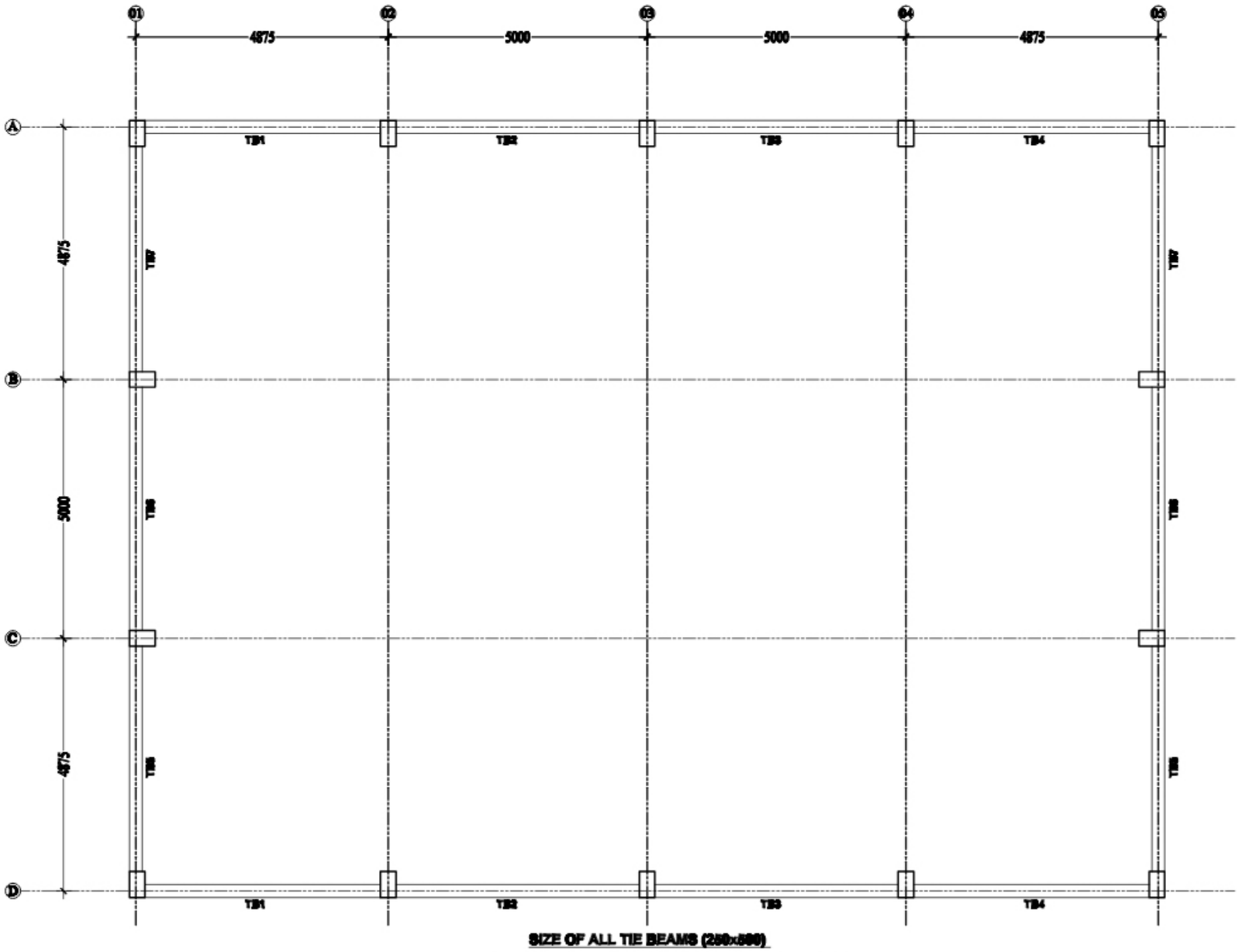


DETL. OF TB5 TO TB7 (250x600)

SEC -1



SEC -2



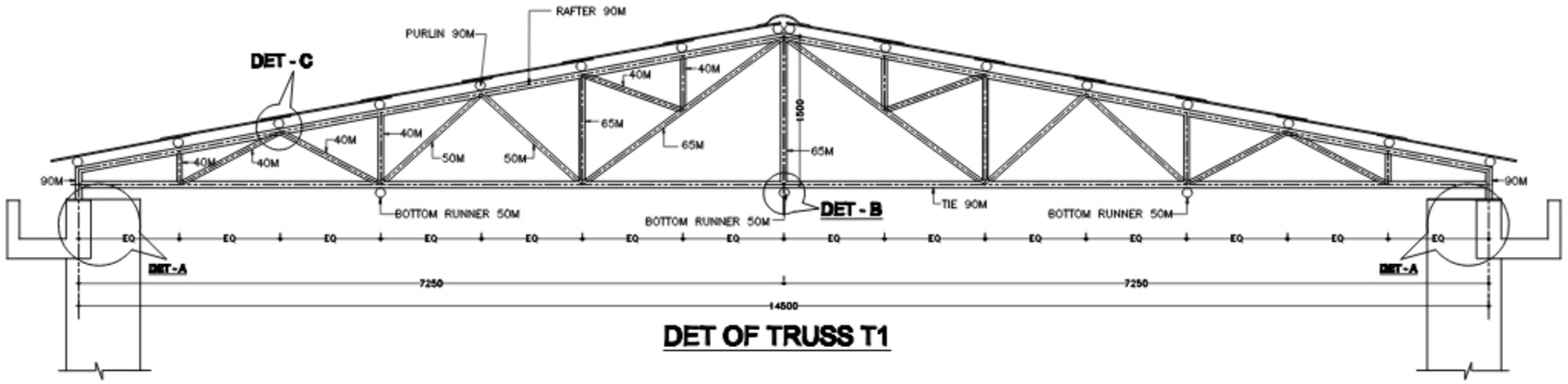
SIZE OF ALL TIE BEAMS (250x600)

TOP l.v. OF ALL TIE BEAMS SHALL BE AT FINISHED PLINTH l.v.

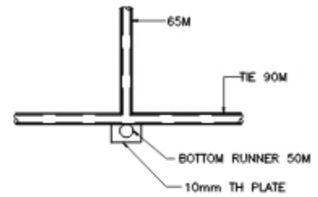
NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. ALL CONCRETE MIX M20.
3. Y DENOTES TMT STEEL. Y8=FE500/HYSD8 Dia= 8.
4. ALL CONCRETE SHALL BE VIBRATED HOND AND MACHINE VIBRATED.
5. CLEAR COVER TO MAIN STEEL 50mm FOR ALL 25mm IN ZONE 2 40mm IN ZONE.
6. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
7. ALL DIMENSIONS & DETAILS ARE TO BE CHECKED WITH THE ARCHITECTURAL DRAWING. ANOMALY IF ANY SHALL BE INFORMED TO THE NOTICE OF THE CONSULTING ENGINEER.
8. ALL INFORMATION AND MATERIAL REQUIRED BUT NOT SHOWN SHALL BE MADE AVAILABLE.
9. THIS DRAWING SHALL BE READ WITH ARCHITECTURAL DRAWING.
10. ANCHORAGE OF BARS SHALL BE ACHIEVED WHERE OBTAINED BY A BEND OF 45 DEG DIA OF THE BAR END, BEYOND REVERSED PEN PART OF THE BEAM.

REVISION No.	DATE	PARTICULARS	DRAWN	CHKED	APPRD

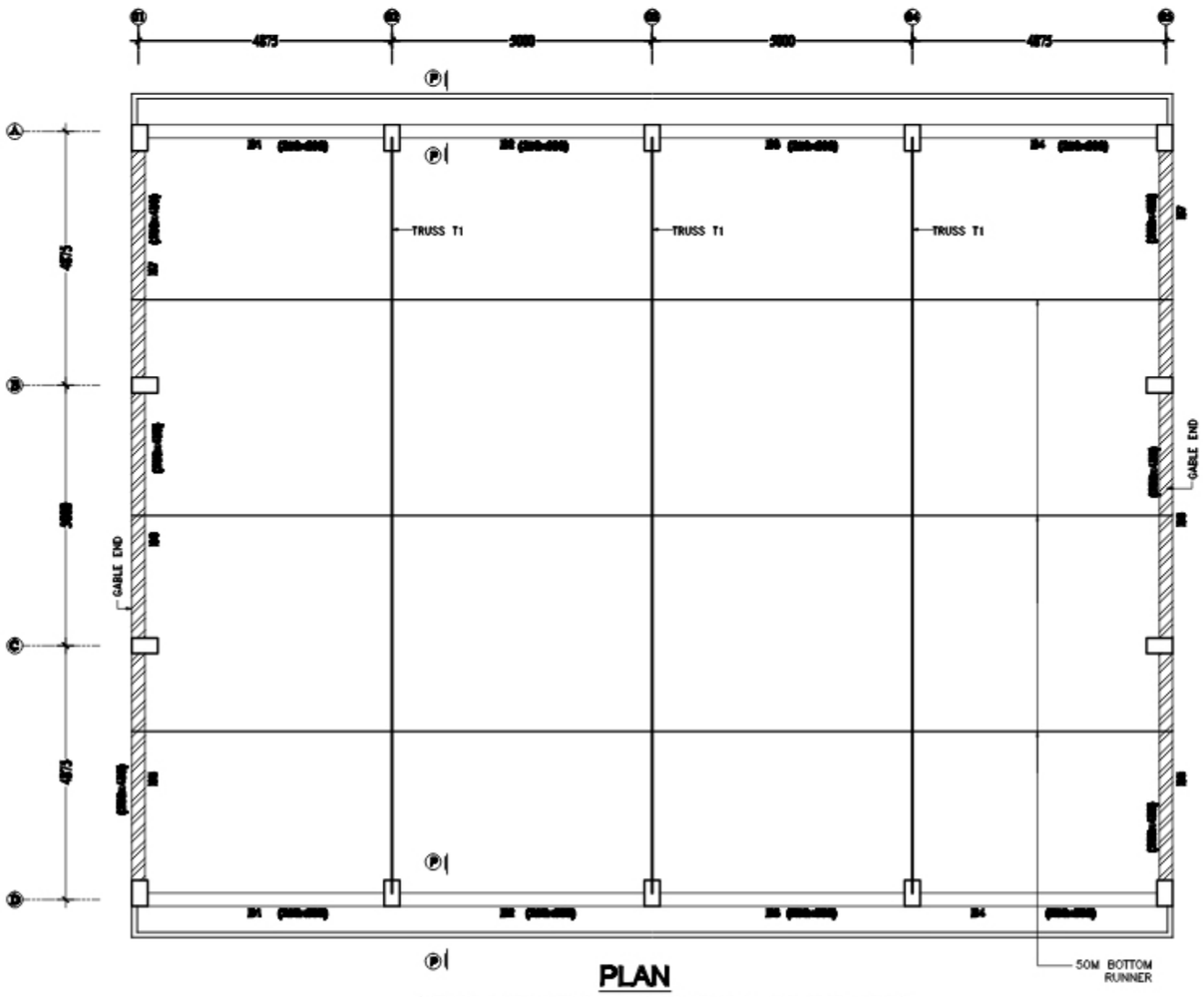
PROJECT No.	TITLE:- **TIE BEAM PLAN & TIE BEAM DETAILS.**
DRAWN BY [redacted]	WORK:- **G.I.S STORE PURNEA**
APPRD	CLIENT:- **POWER GRID CORPORATION**
SCALE 1:50	ARCHITECT:- **INTERFACE ARCHITECTS (P) LTD.**
DT:18.03.2019	
DRG.No. S-2 / REV	**SDCON** STRUCTURAL DESIGNERS, CIVIL ENGINEERS H= 12/11, SOUTH S K PUR, PATNA



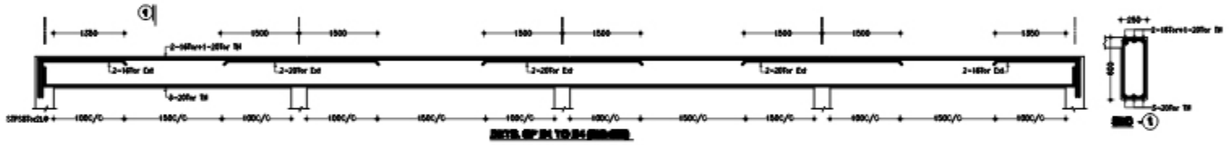
DET OF TRUSS T1

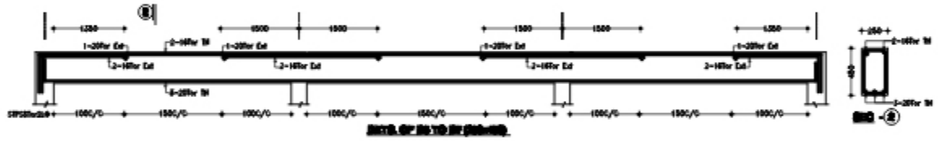


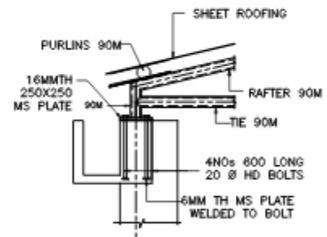
DET - B



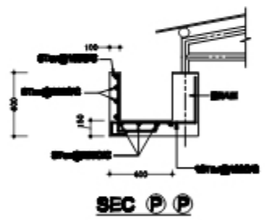
PLAN
(BOTTOM RAFTER LEVEL OF TRUSS)



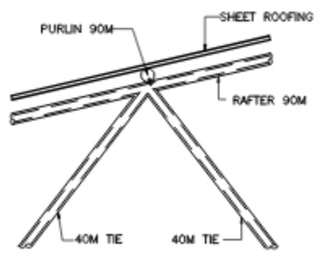




DET - A



SEC Ⓟ Ⓟ



DET - C

NOTES:-
1. ALL DIMENSIONS ARE IN mm.
2. 40M,50M, 65M & 90M INDICATES MEDIUM GUAGE STEEL TUBES OF 40mm,50mm, 65mm & 90mm NOMINAL BORE AS PER IS:1161-1979.

REVISION No.	DATE	PARTICULARS	DRAWN	CKED	APPRD

PROJECT No.	TITLE:- **TRUSS DETAILS**
DRAWN BY RAM PRASAD	WORK:- **G.I.S STORE PURNEA**
APPRD	CLIENT:- **POWER GRID CORPORATION**
SCALE 1: 50 1: 25	ARCHITECT:- **[illegible] ARCHITECTS (P) LTD.**
DT:15.05.2019	
DRG.No. S-3 / REV	**SDCON** STRUCTURAL DESIGNERS, CIVIL ENGINEERS [illegible]