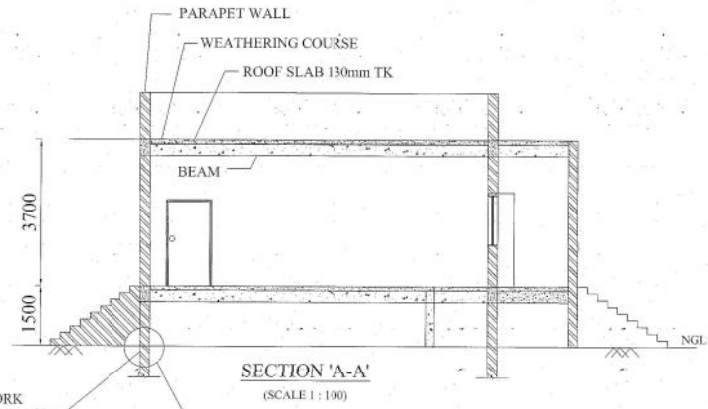
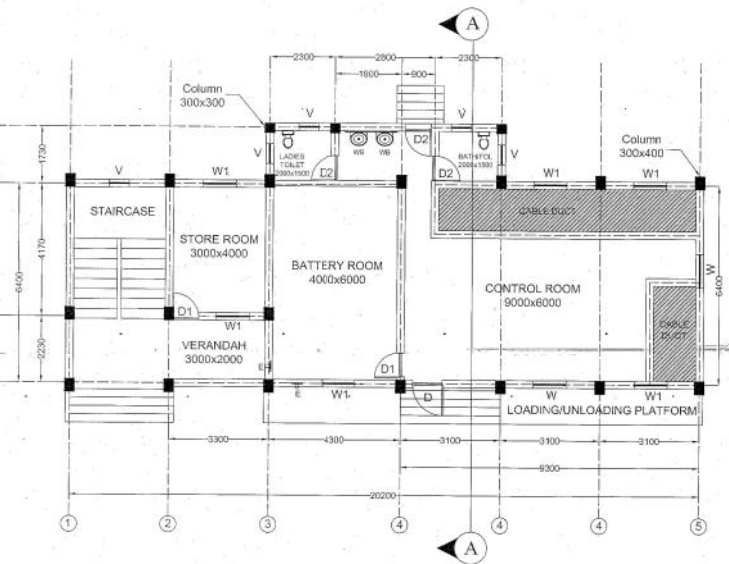


ELEVATION
(SCALE 1 : 100)



SECTION 'A-A'
(SCALE 1 : 100)



GROUND FLOOR PLAN
(SCALE 1 : 100)

NOTES:

- ASSUMPTION / DESIGN / PARAMETERS :
 - 1. LIVE LOAD : GROUND FLOOR ROOF SLAB : 4 KN/m²
 - FIRST FLOOR ROOF SLAB (TERRACE) : 1.5 KN/m²
 - STAIR CASE : 5.0 KN/m²
 - (i). WIND SPEED : 50 m/sec (APPLIED AS PER IS 875 part-3)
 - (ii). SEISMIC ZONE : III (APPLIED AS PER IS 1893 - 1 STATIC EQUATION METHOD)
 - (iii). CONCRETE MIX : M25 FOR FOOTING AND ALL OTHERS
 - (iv). STEEL : HIGH STRENGTH DEFORMED STEEL BARS TO IS 1786 WITH CHARACTERISTIC STRENGTH 460 N/mm²
- CLEAR COVER :
 - FOUNDATION : 50 mm, COLUMNS : 40 mm, SLAB : 20 mm.
- TYPE OF FOUNDATION : RCC ISOLATED & RAFT FOOTING
- SBC OF SOIL : FOUNDATION DESIGNED FOR G+1 FLOOR. FOUNDATION SHOULD REST ON HARD STRATA. FOR SOIL WITH SBC : 10 ton/m² AT A DEPTH OF 1.5 - 2.0 m.
- DEVELOPMENT LENGTH - L_{dt} : 47 Ø & L_{dc} : 38 Ø.
- JOINERY DETAILS :
 - 1.1 D : 1.50x2.40m
 - 1.2 D1 : 1.20x2.20m
 - 1.3 D2 : 0.90x2.20m
 - 1.4 V : 0.60x0.45m
 - 1.5 W₁ : 1.20x1.50m
 - 1.6 W₂ : 2.20x1.50m
 - 1.7 E : EXHAUST FAN
- PROVIDE DUCTILE DETAILING AS PER 19220 FOR EARTHQUAKE RESISTANT STRUCTURES.

SPECIAL NOTE:-

- THE STAIRCASE AND JOINERIES MAY BE SUITABLY ACCOMMODATED DEPENDING UPON THE SITE CONDITION.
- FOR COASTAL AREAS PROVIDE CORROSION RESISTANT STEEL (CP) COATED BARS AS PER RELEVANT IS.
- FOR FUTURE EXPANSION, NECESSARY DOWEL ROOS MAY BE PROVIDED.
- THE FOUNDATION IS DESIGNED FOR SBC OF SOIL 10 ton/m² HOWEVER IT MAY BE DESIGNED SUITABLY DEPENDING UPON THE SBC OF THE SITE.

TRUE COPY
05/07/2019
20/08/19
EE/C/Dn 1

Sd... A.V.
dt 01/08/2019
SE/CD & HP

APPRO...
Sd... C...
dt 05/08/2019
CE...

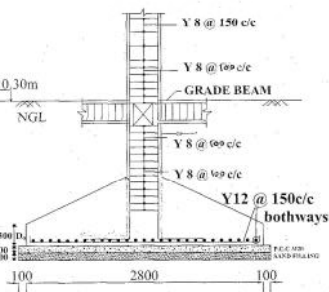
PASSED
Sd... K.S.S.
dt 30/07/2019
01/08/2019
EE1

CHECKED
Sd... M.K.
dt 30/07/2019
01/08/2019
AE2

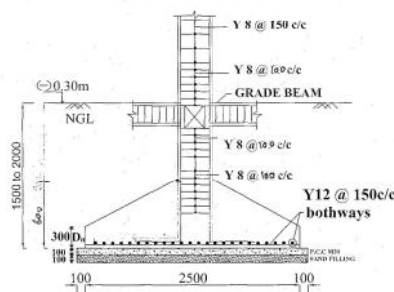
TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD

CONSTRUCTION OF THE CONTROL ROOM BUILDING FOR 33/11 KV OUTDOOR SS

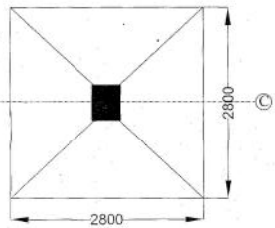
SKETCH SHOWING GENERAL ARRANGEMENT DRAWING



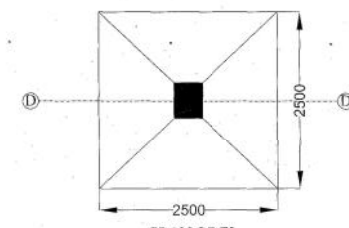
ISOLATED FOOTING, F4
SECTION "C-C"
SCALE(1:20)



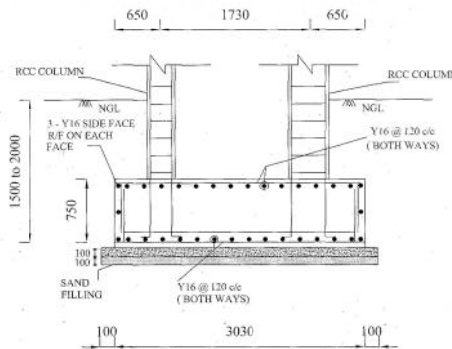
ISOLATED FOOTING, F2
SECTION "D-D"
SCALE(1:20)



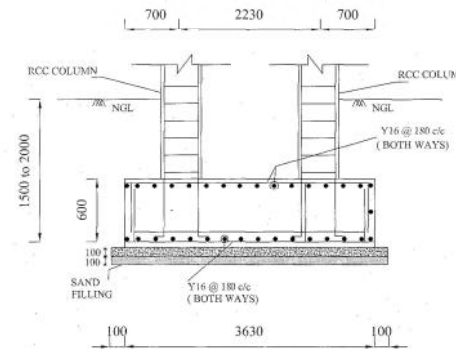
PLAN OF F4
SCALE(1:20)



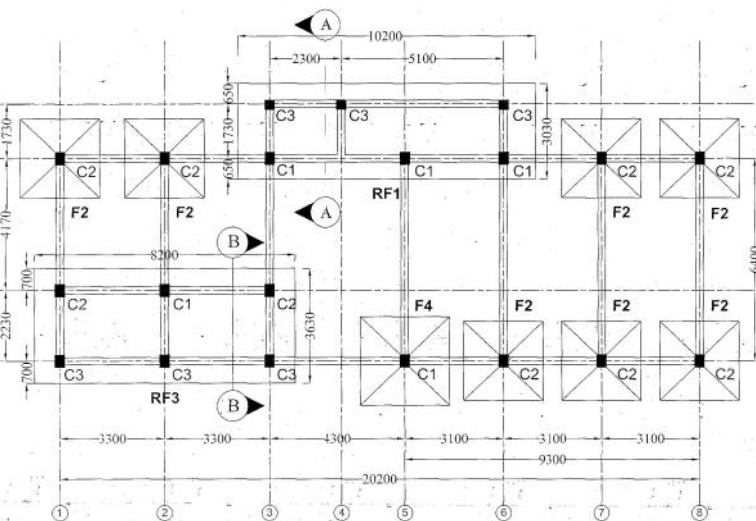
PLAN OF F2
SCALE(1:20)



SECTION AT 'A-A'
(SCALE 1:20)
RAFT FOUNDATION - RF1
(10200x3030x750)



SECTION AT 'B-B'
(SCALE 1:20)
RAFT FOUNDATION - RF3
(8200x3630x600)



FOUNDATION PLAN
(SCALE 1:100)

SCHEDULE OF COLUMNS

SL.NO.	COLUMN TYPE	COLUMN SECTION	GRID TO BE ADOPTED	NO. OF COLUMNS
1.	C1	4-Y 25 + 2-Y 20 <i>(EXTRA 16 BARS TO BE PROVIDED AS COLLAR BARS TO ALL 4 SIDES @ 100mm C/C)</i>	A5, B2, C3, C5, C6	5
2.	C2	4-Y 20 + 2-Y 20 <i>(EXTRA 16 BARS TO BE PROVIDED AS COLLAR BARS TO ALL 4 SIDES @ 100mm C/C)</i>	A6, A7, A8, B1, B3, C1, C2, C7, C8	9
3.	C3	4-Y 20 + 2-Y 16 <i>(EXTRA 16 BARS TO BE PROVIDED AS COLLAR BARS TO ALL 4 SIDES @ 100mm C/C)</i>	A1, A2, A3, D3, D4, D6	6
TOTAL				20

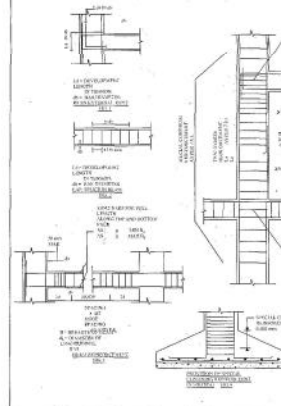
SCHEDULE OF FOOTINGS

SL.NO.	FOOTING TYPE	FOOTING SIZE IN "mm"			AST (Bothways)	COLUMNS TO BE ADOPTED	NO. OF FOOTINGS
		L	B	D			
1.	RF1	10200	3030	750	Y 16 @ 130 c/c b/w T&B	C3, C5, C6, D3, D4, D6	1
2.	F2	2500	2500	600	Y 12 @ 150 c/c b/w	A6, A7, A8, C1, C2, C7, C8	7
3.	RF3	8200	3630	600	Y 16 @ 180 c/c b/w T&B	A1, A2, A3, B1, B2, B3	1
4.	F4	2800	2800	750	Y 12 @ 150 c/c b/w	A5	1

NOTES:

- ASSUMPTION / DESIGN / PARAMETERS :
 - GROUND FLOOR ROOF SLAB : 4 KN/m²
 - FIRST FLOOR ROOF SLAB (TERRACE) : 1.5 KN/m²
 - STAIR CASE : 5.0 KN/m²
 - WIND SPEED : 50 m/sec (APPLIED AS PER IS 875 part-3)
 - SEISMIC ZONE : II (APPLIED AS PER IS 1893 - 1 STATIC EQUIV. ME (HCD))
 - CONCRETE MIX : USE M20 FOR FOOTING AND ALL OTHERS
 - STEEL : USE M20 FOR FOOTING AND ALL OTHERS
 - CLEAR COVER : FOUNDATION : 50 mm, COLUMNS : 40 mm, SLAB : 20 mm
 - TYPE OF FOUNDATION : RCC ISOLATED & RAFT FOOTING (FOUNDATION DESIGNED FOR G-1 FLOOR)
 - SBC OF SOIL : 10 ton/m² AT A DEPTH OF 1.5 - 2.0 m. THE FOUNDATION MAY BE DESIGNED SUITABLY DEPENDING ON THE SOIL. AS PER THE SOIL TEST REPORT
- USE SUITABLE FLY ASH BRICKS IN PLACE OF CONVENTIONAL BRICKS
 - DEVELOPMENT LENGTH - L_{db} : 47 d & L_{dc} : 38 d

DETAILING FOR EARTHQUAKE RESISTANT CONSTRUCTION. THE FOLLOWING RECOMMENDATIONS ARE BASED ON THE PROVISIONS OF IS:13920 - 1993. FOR FURTHER DETAILING REFER (S: 13920 - 1993)



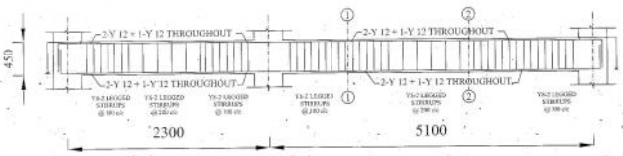
TRUE COPY

EE/C/Dn 1

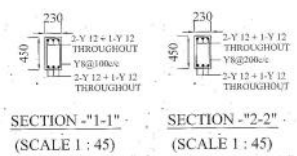
Sd... A.V.
dt 01/08/2019
SE/CD & HP

APPROVED
Sd... C.R.
dt 05/08/2019
CE/CD

PASSED Sd... K.S.S. dt 30/07/2019 01/08/2019 EEL	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD	DRG CE/CD SH-1
CHECKED Sd... M.K. dt 30/07/2019 01/08/2019 AEE	CONSTRUCTION OF 33/11 KV OUTDOOR SS CONTROL ROOM BUILDING	DATE 05/08/2019
	REINFORCEMENT DETAILS OF RAFT FOUNDATION & ISOLATED FOOTING	SCALE AS NOTED

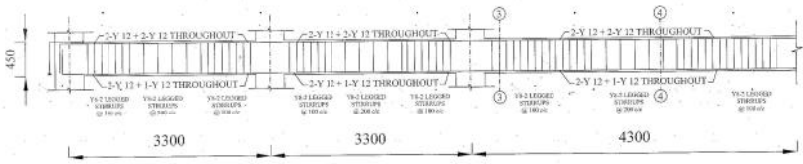


BEAM - GB1 (230x450)
(SCALE 1 : 45)

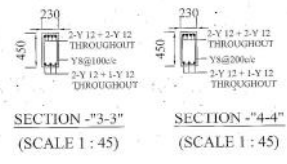


SECTION - "1-1"
(SCALE 1 : 45)

SECTION - "2-2"
(SCALE 1 : 45)

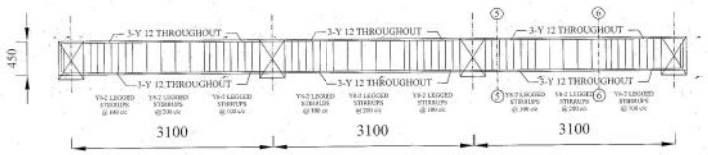


BEAM - GB2 (230x450)
(SCALE 1 : 45)

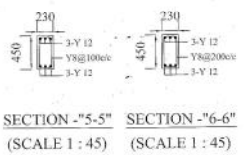


SECTION - "3-3"
(SCALE 1 : 45)

SECTION - "4-4"
(SCALE 1 : 45)

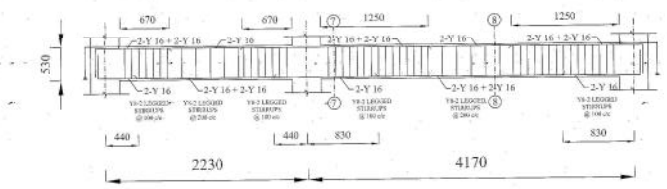


BEAM - GB3 (230x450)
(SCALE 1 : 45)

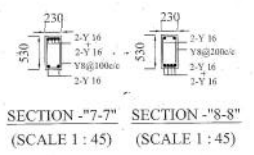


SECTION - "5-5"
(SCALE 1 : 45)

SECTION - "6-6"
(SCALE 1 : 45)



BEAM - GB4 (230x530)
(SCALE 1 : 45)



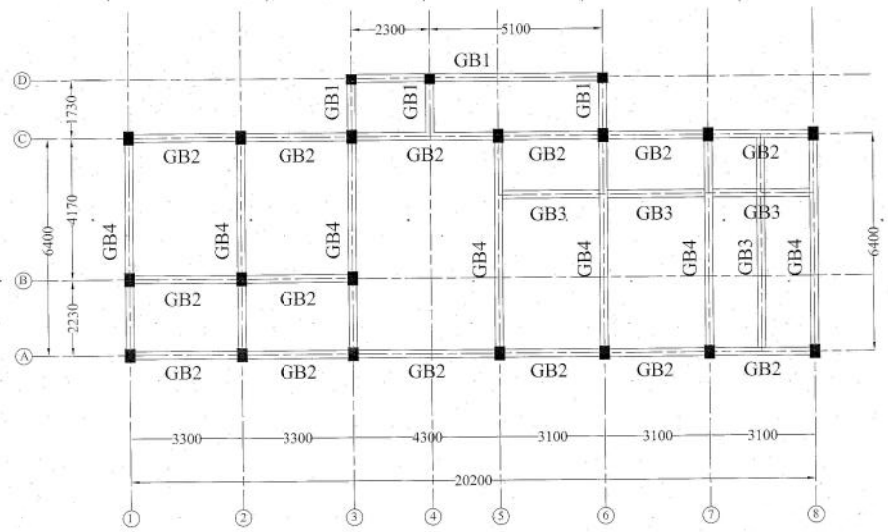
SECTION - "7-7"
(SCALE 1 : 45)

SECTION - "8-8"
(SCALE 1 : 45)

NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH FOUNDATION DRAWING NO. CE/CD/404/SIL-1/5, dt 05/08/2019
2. DUCTILE DETAILING TO BE FOLLOWED AS PER IS 456:2000
3. ALL DIMENSIONS ARE IN "mm" UNLESS NOTED OTHERWISE
4. DO NOT SCALE THE DRAWING. ADOPT THE DIMENSIONS AS INDICATED
5. CLEAR COVER

BEAM	25mm
COLUMN	40mm
CONCRETE GRADE	M25 GRAD
REINFORCEMENT STEEL GRADE	Fe415



GRADE BEAM PLAN
(SCALE 1 : 100)

TRUE COPY

(Signature)

EE/C/Dn 1

Sd... A.V.
dt 01/08/2019
SE/CD & HP

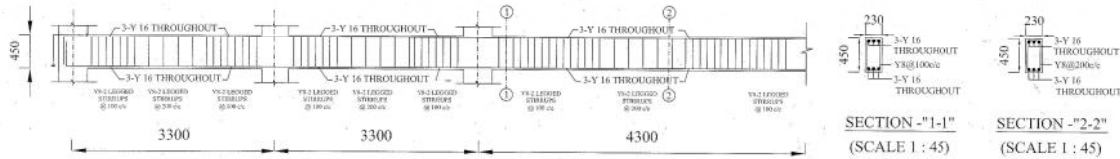
APPROVE

Sd... C.R.
dt 05/08/2019
CE/CD

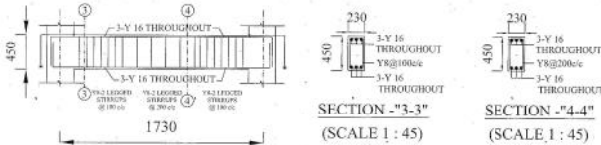
PASSED Sd... K.S.S. dt 30/07/2019 01/08/2019 EE1	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD
CHECKED Sd... M.K. dt 30/07/2019 01/08/2019 AE2	CONSTRUCTION OF 33/11 KV OUTDOOR SS CONTROL ROOM BUILDING
	SKETCH SHOWING DETAILS OF GRADE BEAMS

NOTES:

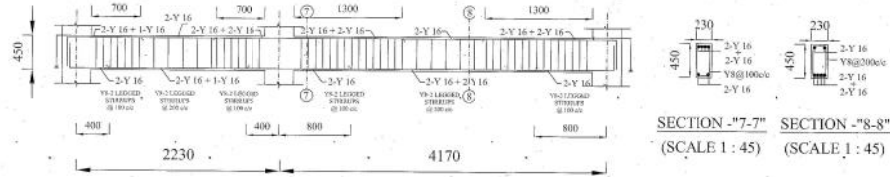
1. READ THIS DRAWING IN CONJUNCTION WITH DRG. NO.CE/CD/404/SH-1/5, dt 05/08/2019
2. DUCTILE DETAILING TO BE FOLLOWED AS PER
3. ALL DIMENSIONS ARE IN "mm" UNLESS NOTED
4. DO NOT SCALE THE DRAWING. ADOPT THE DIM AS INDICATED.
5. CLEAR COVER:
 - BEAM : 25mm
 - COLUMN : 40mm
 - CONCRETE GRADE : M25 GR.
 - REINFORCEMENT STEEL GRADE : Fe415



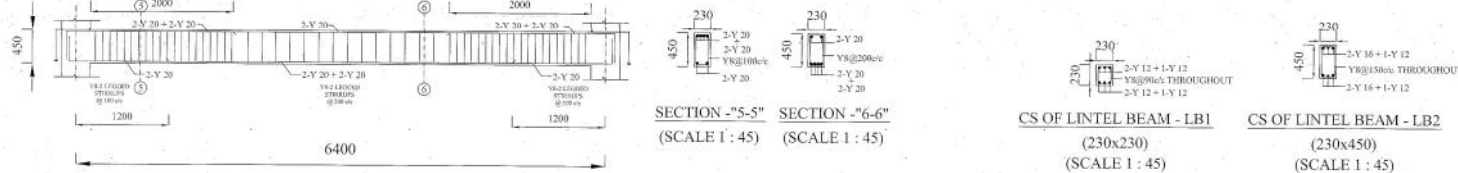
BEAM - PB1 (230x450)
(SCALE 1 : 45)



BEAM - PB2 (230x450)
(SCALE 1 : 45)



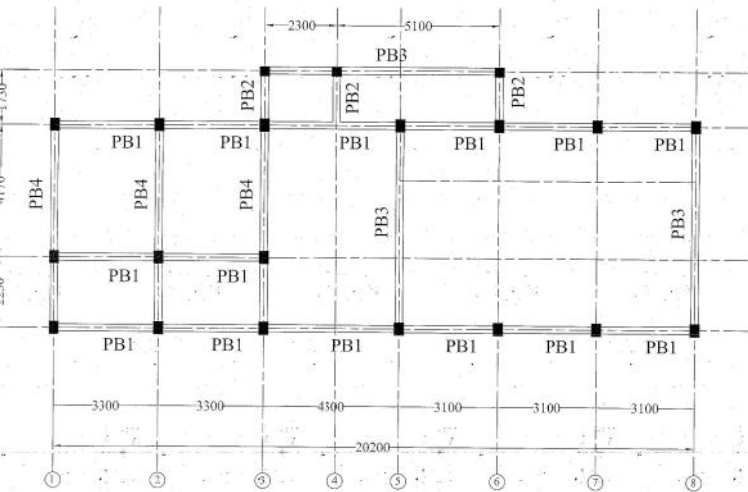
BEAM - PB4 (230x450)
(SCALE 1 : 45)



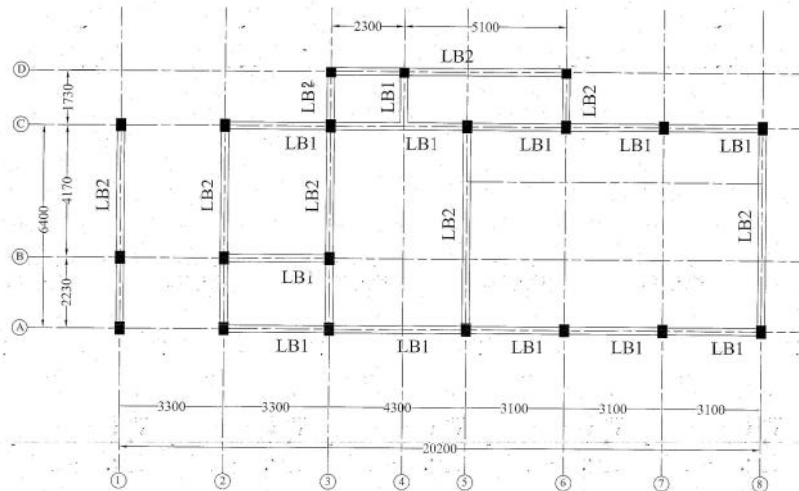
BEAM - PB3 (230x450)
(SCALE 1 : 45)

CS OF LINTEL BEAM - LB1 (230x230)
(SCALE 1 : 45)

CS OF LINTEL BEAM - LB2 (230x450)
(SCALE 1 : 45)



PLINTH BEAM PLAN
(SCALE 1 : 100)



LINTEL BEAM PLAN
(SCALE 1 : 100)

TRUE COPY

EE/C/Dr 1

Sd... A.V.
dt 01/08/2019
SE/CD & HP

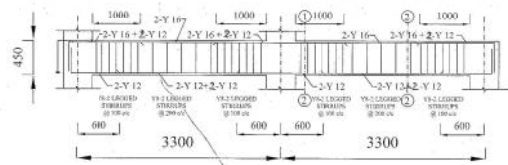
APPROVE

Sd... C.R.
dt 05/08/2019
CE/CD

PASSED Sd... K.S.S. dt 30/07/2019 01/08/2019 EE1	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD
CHECKED Sd... M.K. dt 30/07/2019 01/08/2019 AEE2	CONSTRUCTION OF 33/11 KV OUTDOOR SS CONTROL ROOM BUILDING
	REINFORCEMENT DETAILS OF PLINTH & LINTEL BEAMS

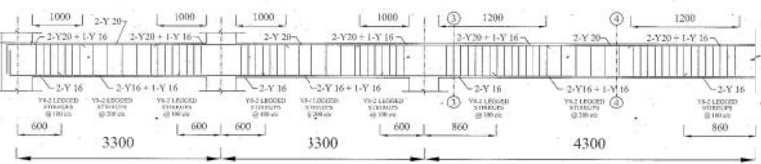
NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH PERIODIC DRG. NO.CE/CD/404/SH-1/5, dt 05/08/2019
2. DUCTILE DETAILING TO BE FOLLOWED AS PER IS 456:2000
3. ALL DIMENSIONS ARE IN "mm" UNLESS NOTED OTHERWISE
4. DO NOT SCALE THE DRAWING. ADOPT THE DIMENSIONS AS INDICATED.
5. CLEAR COVER:
 - BEAM : 25mm
 - COLUMN : 40mm
 - CONCRETE GRADE : M25 G
 - REINFORCEMENT STEEL GRADE : Fe415



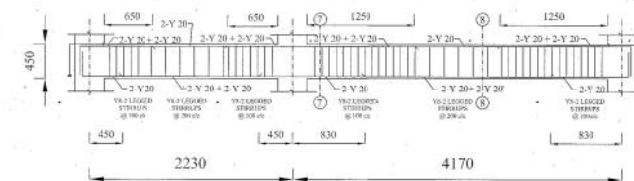
SECTION -"1-1" SECTION -"2-2"
(SCALE 1 : 45) (SCALE 1 : 45)

BEAM - RB1 (230x450)
(SCALE 1 : 45)



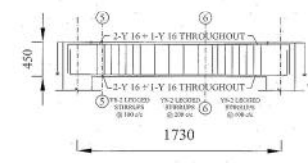
SECTION -"3-3" SECTION -"4-4"
(SCALE 1 : 45) (SCALE 1 : 45)

BEAM - RB2 (230x450)
(SCALE 1 : 45)



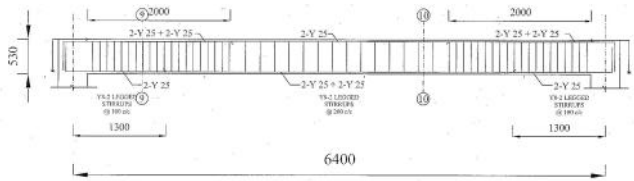
SECTION -"7-7" SECTION -"8-8"
(SCALE 1 : 45) (SCALE 1 : 45)

BEAM - RB4 (230x450)
(SCALE 1 : 45)



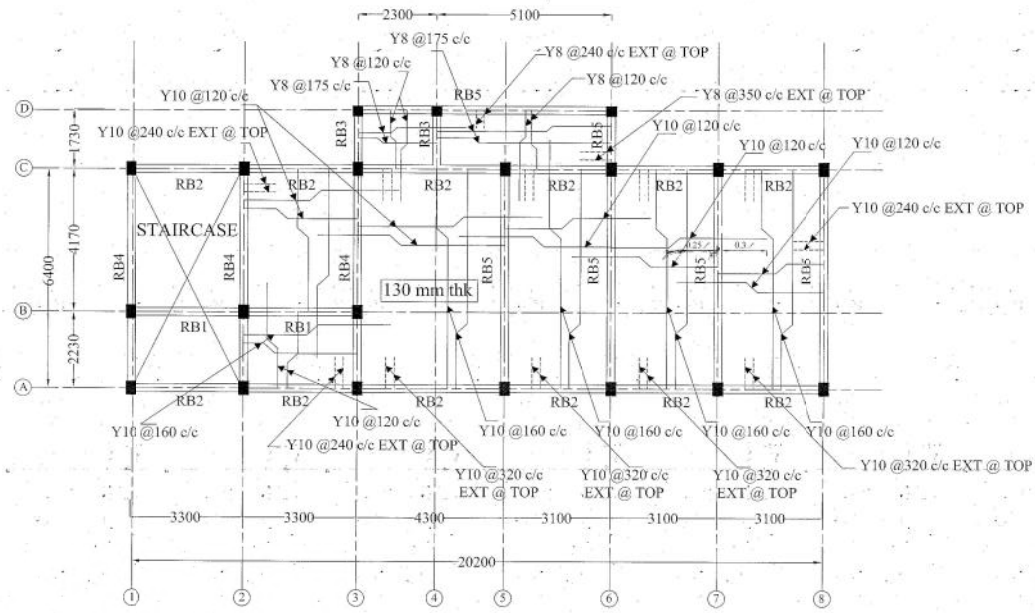
SECTION -"5-5" SECTION -"6-6"
(SCALE 1 : 45) (SCALE 1 : 45)

BEAM - RB3 (230x450)
(SCALE 1 : 45)



SECTION -"9-9" SECTION -"10-10"
(SCALE 1 : 45) (SCALE 1 : 45)

BEAM - RB5 (230x530)
(SCALE 1 : 45)



GROUND FLOOR ROOF BEAM
(SCALE 1 : 100)

TRUE COPY
EE/C/Dn 1

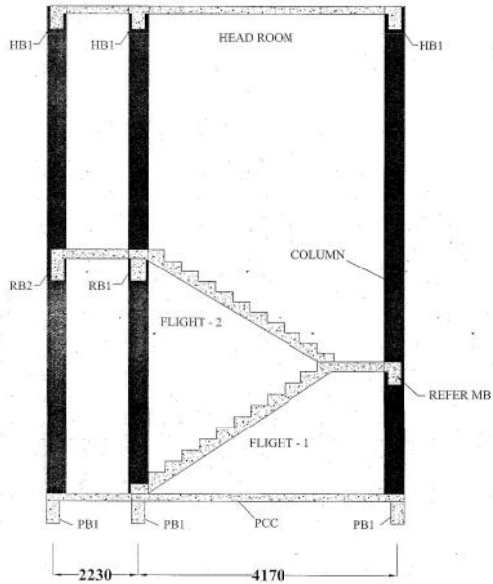
Sd... A.V.
dt 01/08/2019
SE/CD & HP

APPROV
Sd... C...
dt 05/08/2019
CE/C

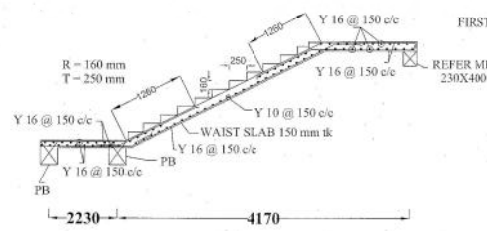
PASSED Sd... K.S.S. dt 30/07/2019 01/08/2019 EET	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD
CHECKED	CONSTRUCTION OF 33/11 KV OUTDOOR SS CONTROL ROOM BUILDING
Sd... M.C. dt 30/07/2019 01/08/2019 AEE	REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAMS

NOTES:

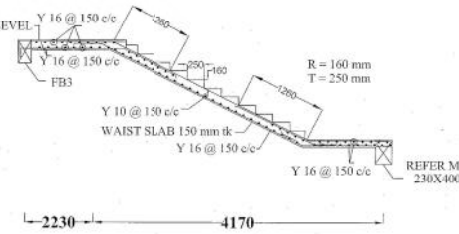
1. READ THIS DRAWING IN CONJUNCTION WITH DRG NO:CE/CD/403/SH-1/1, dt.05/08/2019
2. ASSUMPTION / DATA
LIVE LOAD FOR STAIR CASE = 5.0 KN/m².
3. DIRECTIVES:
REINFORCEMENT: ALL REINFORCEMENT SHALL E OF HYSD B CHARACTERISTIC STRENGTH OF 415 N/mm² CONFORMING TO
4. CLEAR COVER:
(i) WAIST SLAB = 20 mm (ii) ROOF / FLOOR SLAB = 25 mm
(iii) BEAM = 25 mm (iv) COLUMNS = 40 mm
5. DEVELOPMENT LENGTH
(i) L_d: 47 Dia (ii) L_d: 38 Dia
6. DO NOT MEASURE THE DRAWING, THE DIMENSIONS AS INDICATED
7. CONCRETE GRADE : M25 GRADE
8. Steel Grade Fe415



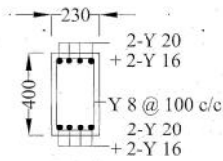
SECTION 'A-A'
(SCALE 1 : 50)



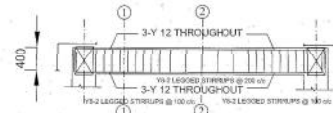
REINFORCEMENT DETAILS OF FLIGHT - 1
(SCALE 1 : 50)



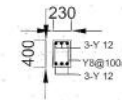
REINFORCEMENT DETAILS OF FLIGHT - 2
(SCALE 1 : 50)



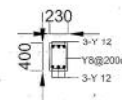
MID LANDING BEAM
(SCALE 1 : 25)



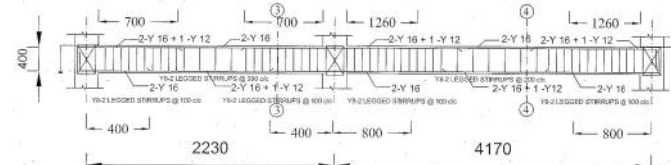
BEAM - HB1 (230x400)
(SCALE 1 : 45)



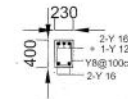
SECTION - "1-1"
(SCALE 1 : 45)



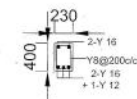
SECTION - "2-2"
(SCALE 1 : 45)



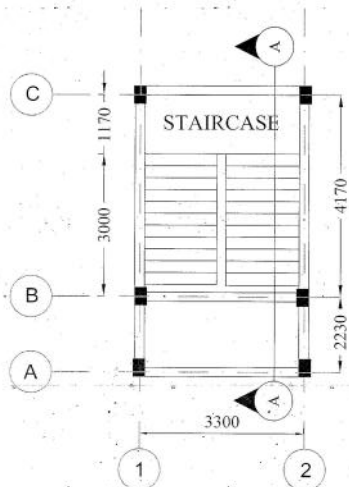
BEAM - HB2 (230x400)
(SCALE 1 : 45)



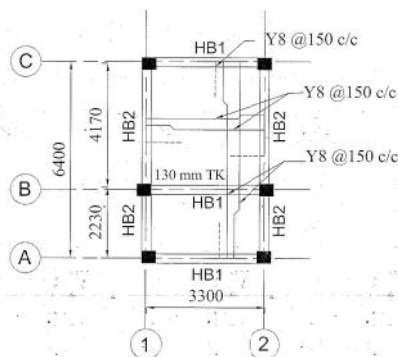
SECTION - "3-3"
(SCALE 1 : 45)



SECTION - "4-4"
(SCALE 1 : 45)



STAIRCASE PLAN
(SCALE 1 : 100)



PLAN OF HEAD ROOM SLAB AND BEAM
(SCALE 1 : 50)

TRUE COPY
[Signature]
EE/C/Dn 1

Sd... A.V.
dt 01/08/2019
SE/CD & HP

APPROVE
Sd... C.R.
dt 05/08/2019
CE/CD

PASSED Sd... K.S.S. dt 26/07/2019 01/08/2019 EE1	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LTD
CHECKED Sd... M.K. dt 26/07/2019 01/08/2019 AEE2	CONSTRUCTION OF CONTROL ROOM BUILDING FOR 33/11 KV OUTDOOR SS
	RCC DETAILS OF STAIRCASE AND HEAD ROOM SLAB & BEAMS