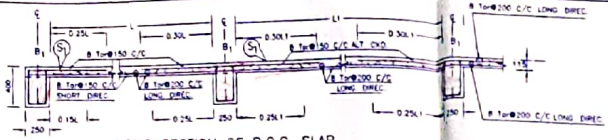
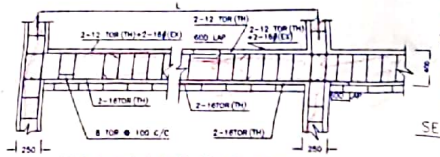
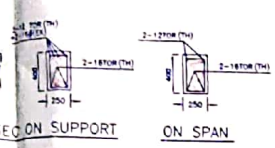


LONG SECTION OF R.C.C. SLAB
MKD.-S1, SCALE =1:25

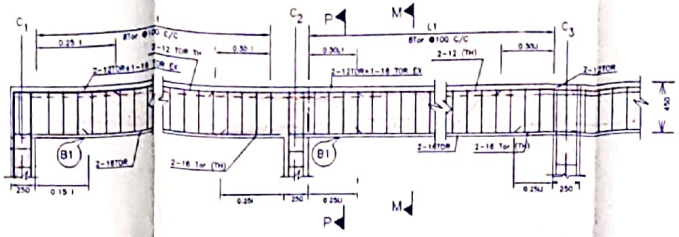


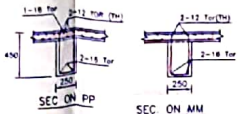
LONG SECTION OF R.C.C. TIE BEAM
MKD.-TB1, SCALE =1.25



SEC ON SUPPORT

SEC ON SPAN

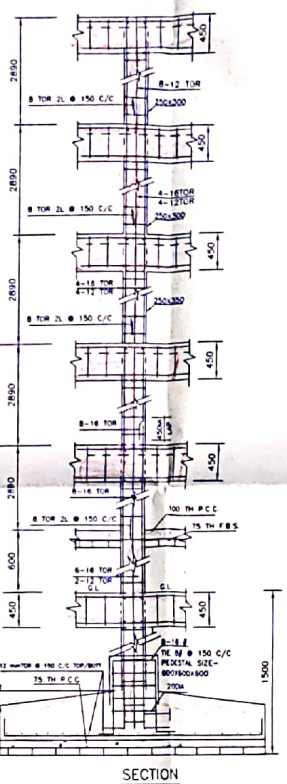




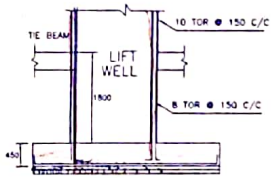
SEC ON PP

SEC ON MM

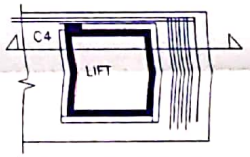
LONG SECTION OF R.C.C. BEAM.
BEAM MKD-B1 SCALE-1:25



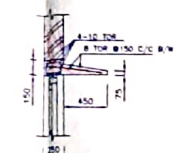
SECTION



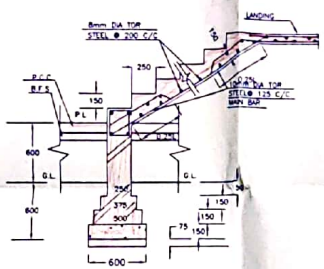
SECTION



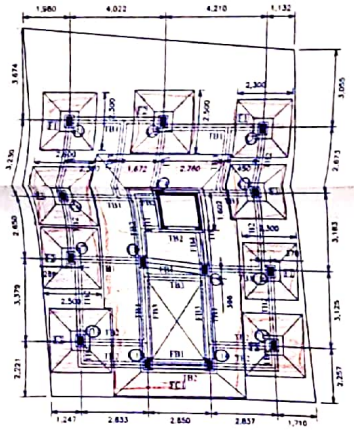
LIFT FOOTING MKD.-FC1
SCALE-1:50



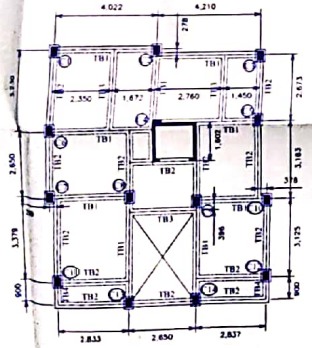
DETAIL OF R.C.C.
CHAJJA SCALE = 1:25



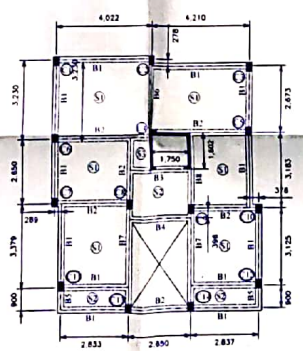
DETAIL OF STAIR
& FOUNDATION
SCALE-1:25



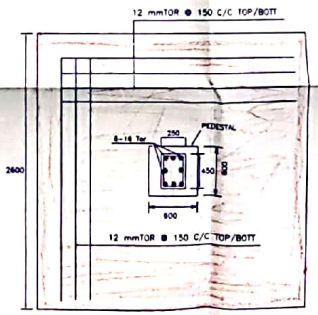
FOUNDATION LAYOUT PLAN
SCALE = 1:100



TIE-BEAM LAYOUT PLAN
SCALE = 1:100



ARRANGEMENT OF R.C.C. BEAM & SLAB
SCALE = 1:100



DETAILS OF R.C.C. COLUMN.
COL. MKD. C6
SCALE-1:25

NOTES:-

1. CLEAR COVER TO MAIN REINFORCEMENT:-
a) FOUNDATION: 50 MM b) COLUMN: 40 MM
c) TIE BEAM: 30 MM d) SLAB - 20 MM e) BEAM: 25MM
2. LAP, ANCHORAGE LENGTH SHOULD BE GENERALLY 50D.
3. D = DIA OF BAR.
4. TOR INDICATES COLD TWISTED DEFORMED BAR CONFORMING TO IS 1786.
5. GRADE OF CONCRETE:
a) FOUNDATION: M20 b) COLUMN: M20
c) TIE BEAM: M20 d) SLAB: M20 e) BEAM: M20.
6. GRADE OF STEEL: Fe 500.

NOTES:-
1. Foundation should rest on 500 mm compacted sand filling.

N

SCHEDULE OF SLAB

SLAB MKD.	SLAB THK.	REINFORCEMENT			
		SHORTER SPAN		LONGER SPAN	
		SUPP.(TOP)	SPAN (BOT.)	SUPPORT (TOP)	SPAN (BOT.)
S1	115 MM	8Φ @150 C/C	8Φ @150 C/C	8Φ @200 C/C	8Φ @200 C/C
S2	110 MM	8Φ @150 C/C	8Φ @200 C/C	8Φ @200 C/C	8Φ @200 C/C
S3	100 MM	8Φ @200 C/C	8Φ @200 C/C	8Φ @200 C/C	8Φ @200 C/C
S4	150 MM	10Φ @125 C/C (ALTERNATE) WITH 8Φ @200 C/C (DIST.)			
		8Φ @ 200 C/C AS DIST. BAR WHEREVER REQUIRED			

SCHEDULE OF TIE BEAM

BEAM MKD	BEAM SIZE	MAIN REINFORCEMENT						STIRRUPS	
		CONT. SUPP.		SPAN		DISCON. SUPP.			
		TOP	BOT.	TOP	BOT.	TOP	BOT.	SUPPORT	SPAN
TB1	250 x 400	2-16Φ + 1-12Φ	2-16Φ	2-12Φ	2-16Φ	2-12Φ	2-12Φ	8Φ @ 100 C/C	8Φ @ 250 C/C
TB2	250 x 400	2-16Φ	2-12Φ	3-12Φ	3-12Φ	2-12Φ	2-12Φ	8Φ @ 100 C/C	8Φ @ 250 C/C
TB3	250 x 400	—	—	2-12Φ	3-12Φ	2-12Φ	2-12Φ	8Φ @ 100 C/C	8Φ @ 250 C/C
TB4	250 x 400	2-16Φ	CANTILEVER					8Φ @ 100 C/C	

SCHEDULE OF BEAM

BEAM MKD	BEAM SIZE	MAIN REINFORCEMENT						STIRRUPS	
		CONT. SUPP.		SPAN		DISCON. SUPP.			
		TOP	BOT.	TOP	BOT.	TOP	BOT.	SUPPORT	SPAN
B1	250 x 450	2-16Φ + 1-12Φ	2-16Φ	2-16Φ	2-12Φ	2-16Φ		8Φ @ 100 C/C	8Φ @ 250 C/C
B2	250 x 450	2-16Φ + 1-12Φ	2-16Φ	2-16Φ	2-12Φ	2-16Φ		8Φ @ 100 C/C	8Φ @ 250 C/C
B3	250 x 450	2-16Φ + 1-12Φ	2-16Φ	2-16Φ	2-12Φ	2-16Φ		8Φ @ 100 C/C	8Φ @ 250 C/C
B4	250 x 450	—	—	2-12Φ + 1-16Φ	3-16Φ	2-12Φ	2-16Φ	8Φ @ 100 C/C	8Φ @ 250 C/C
B5	250 x 450	2-16Φ	CANTILEVER					8Φ @ 100 C/C	
B6	250 x 450	4-16Φ	2-12Φ	4-16Φ	2-12Φ	4-16Φ		8Φ @ 100 C/C	8Φ @ 250 C/C
B7	250 x 450	2-16Φ	2-12Φ	3-16Φ	2-12Φ	2-16Φ		8Φ @ 100 C/C	8Φ @ 250 C/C
B8	250 x 450	2-16Φ	ALTE					8Φ @ 100 C/C	

SCHEDULE OF FOUNDATION BEAM

BEAM MKD	BEAM SIZE	MAIN REINFORCEMENT						STIRRUPS	
		CONT. SUPPORT		SPAN		DISCONT. SUPPORT			
		TOP	BOT.	TOP	BOT.	TOP	BOT.	SUPPORT	SPAN
FB1	400 X 600	5-16Φ	5-16Φ	4-16Φ	3-16Φ	—	—	10Φ @ 100 C/C	10Φ @ 250 C/C
FB2	400 X 600	4-16Φ	3-16Φ	CANTILEVER				10Φ @ 100 C/C	
FB3	400 X 600	5-16Φ	4-16Φ	4-16Φ	3-16Φ	—	—	10Φ @ 100 C/C	10Φ @ 250 C/C
FB4	400 X 600	2-16Φ + 2-12Φ	2-16Φ + 2-12Φ	ALTE				10Φ @ 100 C/C	

SCHEDULE OF R.C.C COLUMN

COLUMN MKD.	COLUMN SIZE	REINFORCEMENT				LINKS
		GR. FL. - 1ST FL.	2ND FL. - 3RD FL.	4TH FLOOR		
C1,C2,C3,C12, C4,C5,C11	250X450	4-16Φ + 4-12Φ	4-16Φ + 4-12Φ	4-16Φ + 4-12Φ		8Φ LINK @ 100 250 C/C FOR ALL VERT. BAR
C6	250X450	8-16Φ	6-16Φ + 4-12Φ	6-16Φ + 4-12Φ		
C7,C8,C13, C14	250X450	8-16Φ	4-16Φ + 4-12Φ	4-16Φ + 4-12Φ		
C9,C10	250X450	4-16Φ + 4-12Φ	4-16Φ + 4-12Φ	4-16Φ + 4-12Φ		
LIFT SHAFT	150 THK.	10Φ @ 150 C/C (VERT.) WITH 8Φ @ 150 C/C (HORIZ.) (DBL)				

SCHEDULE OF R.C.C FOOTING

FOOTING MKD.	SIZE (AXB)	d1	d2	REINFORCEMENT	
				LONGER	SHORTER
F1	2300X2300	225	225	12Φ@ 150 C/C	12Φ@ 150 C/C
F2	2500 X 2500	250	250	12Φ@ 150C/C	12Φ@ 150 C/C
F3	2600 X 2600	250	275	12Φ@ 125C/C	12Φ@ 125 C/C

SCHEDULE OF R.C.C COMBINED FOOTINGS

FOOTING MKD.	SIZE (A x B)	SIZE (C x D)	d1	d2	REINFORCEMENT	
					LONGER	SHORTER
FC1	AS PER DWG	7733X3250	350	350	12 Φ@150 C/C(T) 16 Φ@175 C/C(B)	12 Φ@150 C/C(T) 16 Φ@175 C/C(B)

CERTIFICATE OF ST.ENG
I CERTIFY WITH FULL RESPONSIBILITY - THAT THE FOUNDATION AND THE SUPERSTRUCTURE OF THE BUILDING HAS BEEN DESIGNED BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD WIND LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND ALSO CONSIDERING THE BEARING CAPACITY AND SETTLEMENT OF SOIL AND CERTIFY THAT THE BUILDING IS SAFE AND STABLE IN ALL RESPECT

DEBASISH CHATTERJEE
(B.E.(CIVIL), B.E.S.U. SHIBPUR, AMIE(I)
M.Tech (Structure) WBUT, BSC(CU)
Reg. No. AM147693-1

SIGNATURE OF ST.ENG

PROPOSED PLAN OF (G+4) FIVE STORIED RESIDENTIAL FLAT BUILDING OF R.S. DAG.NO- 1078, L.R. DAG NO. -1239, L.R. KH.-6733, J.L.NO.-38, MOUZA-PODRAH, P.S.-SANKRAIL, DIST-HOWRAH.

ALL DIMENTIONS ARE IN M.M.
SCALE- 1:100, 1:50, 1:25, 1:600, 1:10,000

SIGNATURE OF OWNERS	SIGNATURE OF L.B.A.
MAA BHABADARINI REALTOR PVT. LTD. Managing Director	Ar. Mintu Paul, Govt. Regd. Architect (India), L.B.A. No. CA/2002/29757, 5, Dasiya, Andul, Howrah - 711302

SHEET NO.- 2/2

Scanned by CamScanner