BEAM SCHEDULE

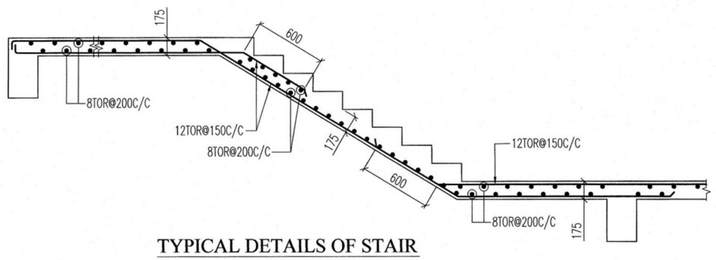
GRADE OF CONCRETE - M25

BEAM MKD	BEAM SIZE		REINFT. AT SUPPORT		REINFT. AT MID SPAN		STIRRUPS AT SUPPORT(0.3L)	STIRRUPS AT SPAN
	WIDE	DEPTH	TOP	BOTTOM	TOP	BOTTOM		
B1	250	500	6–20ϕ	3–20ϕ	2–20ϕ	3–20ϕ+2–16ϕ	8ϕ100C/C	8ϕ125C/C
B2	250	500	4–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ+1–12ϕ	8ϕ100C/C	8ϕ200C/C
B3	250	500	4–16ϕ+1–12ϕ	3–16ϕ	2–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ150C/C
B4	250	500	3–12ϕ	3–12ϕ	3–12ϕ	3–12ϕ	8ϕ200C/C	8ϕ200C/C
B5	250	500	2–12ϕ	2–16ϕ+1–12ϕ	2–12ϕ	2–16ϕ+1–12ϕ	8ϕ200C/C	8ϕ200C/C
B6	250	500	3–16ϕ	3–16ϕ	3–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ200C/C
B7	200	500	3–12ϕ	3–12ϕ	3–12ϕ	3–12ϕ	8ϕ200C/C	8ϕ200C/C
B8	250	500	2–12ϕ	4–16ϕ	2–12ϕ	4–16ϕ	8ϕ200C/C	8ϕ200C/C
B9	200	500	5–20ϕ	2–20ϕ	3–20ϕ	2–20ϕ	10ϕ100C/C	10ϕ100C/C
B10	250	500	3–16ϕ+2–20ϕ	3–16ϕ	2–16ϕ	2–16ϕ+3–12ϕ	8ϕ100C/C	8ϕ150C/C
B11	250	500	4–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	8ϕ100C/C	8ϕ100C/C
B11A	200	500	4–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	8ϕ100C/C	8ϕ100C/C
B12	250	500	4–16ϕ+2–12ϕ	2–16ϕ+1–12ϕ	2–16ϕ	2–16ϕ+1–12ϕ	8ϕ100C/C	8ϕ150C/C
B13	250	500	6–16ϕ	3–16ϕ	2–16ϕ	3–16ϕ+2–12ϕ	8ϕ100C/C	8ϕ150C/C
B14	250	500	6–20ϕ	3–20ϕ	2–20ϕ	3–20ϕ+3–16ϕ	8ϕ100C/C	8ϕ150C/C
B15	500	500	4–25ϕ+4–20ϕ	4–25ϕ	4–25ϕ	4–25ϕ	4L–8ϕ100C/C	4L–8ϕ150C/C
B16	500	500	4–25ϕ+4–20ϕ	4–25ϕ	4–25ϕ	4–25ϕ	4L–8ϕ100C/C	4L–8ϕ150C/C
B17	500	500	4–25ϕ	4–25ϕ	4–25ϕ	4–25ϕ	4L–10ϕ150C/C	4L–10ϕ150C/C
B18	500	500	4–25ϕ	4–25ϕ	4–25ϕ	4–25ϕ	4L–8ϕ100C/C	4L–8ϕ150C/C
B19	250	500	3–25ϕ	3–25ϕ	3–25ϕ	5–25ϕ	10ϕ150C/C	10ϕ1500/C
B20	200	500	2–12ϕ	4–16ϕ	2–12ϕ	4–16ϕ	8ϕ150C/C	8ϕ150C/C
B21	150	500	2–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	8ϕ150C/C	8ϕ150C/C
B22	250	500	4–16ϕ+2–12ϕ	3–16ϕ	2–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ150C/C
B23	200	500	5–20ϕ	3–20ϕ	2–20ϕ	3–20ϕ	8ϕ100C/C	8ϕ100C/C
B24	200	500	4–16ϕ	3–16ϕ	2–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ150C/C
B25	500	500	8–25ϕ	5–20ϕ+4–25ϕ	4–25ϕ	5–20ϕ+4–25ϕ	6L–8ϕ100C/C	6L–8ϕ150C/C
B26	500	500	8–25ϕ	4–25ϕ	4–25ϕ	4–25ϕ+4–20ϕ	4L–10ϕ150C/C	4L–10ϕ150C/C
B27	500	500	8–25ϕ	4–25ϕ	4–25ϕ	4–25ϕ+4–20ϕ	4L–10ϕ150C/C	4L–10ϕ150C/C
B28	250	500	6–20ϕ	3–20ϕ	3–20ϕ	3–20ϕ+3–25ϕ	10ϕ100C/C	10ϕ125C/C
MB1	250	500	3–16ϕ+2–12ϕ	3–16ϕ	2–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ150C/C
MB2	250	500	3–16ϕ+2–12ϕ	3–16ϕ	2–16ϕ	3–16ϕ	8ϕ100C/C	8ϕ150C/C

BEAM SCHEDULE OF TOP OF U.G.W.R.

GRADE OF CONCRETE - M25

BEAM MKD	BEAM SIZE		REINFT. AT SUPPORT		REINFT. AT MID SPAN		STIRRUPS AT SUPPORT(0.3L)	STIRRUPS AT SPAN
	WIDE	DEPTH	TOP	BOTTOM	TOP	BOTTOM		
GB1	500	400	4–20ϕ	7–20ϕ	4–20ϕ	7–20ϕ	4L–10ϕ150C/C	4L–10ϕ150C/C
GB2	500	400	4–20ϕ	7–20ϕ	4–20ϕ	7–20ϕ	4L–10ϕ150C/C	4L–10ϕ150C/C
GB3	250	400	2–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	8ϕ100C/C	8ϕ100C/C



TYPICAL DETAILS OF STAIR

SLAB SCHEDULE

GRADE OF CONCRETE - M25

SLAB MKD.	DEPTH	REINFT. AT SHORTER SPAN	REINFT. AT LONGER SPAN
S1	125	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S2	150	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S3	125	8 ϕ @225C/C (TOP) 8 ϕ @225C/C (BOTTOM)	8 ϕ @225C/C (TOP) 8 ϕ @225C/C (BOTTOM)
S4	125	8 ϕ @200C/C (TOP) 8 ϕ @200C/C (BOTTOM)	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S5	125	8 ϕ @250C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @300C/C ST. 8 ϕ @400C/C CKD.
S6	125	8 ϕ @200C/C (TOP) 8 ϕ @200C/C (BOTTOM)	8 ϕ @450C/C ST. 8 ϕ @450C/C CKD.
S7	150	10 ϕ @150C/C (TOP) 10 ϕ @150C/C (BOTTOM)	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.
S8	175	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.	10 ϕ @400C/C ST. 10 ϕ @400C/C CKD.
S9	165	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S10	125	8 ϕ @150C/C (TOP) 8 ϕ @150C/C (BOTTOM)	8 ϕ @200C/C (TOP) 8 ϕ @200C/C (BOTTOM)
S11	165	8 ϕ @300C/C ST. 8 ϕ @250C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S12	150	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.
S13	175	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.	10 ϕ @400C/C ST. 10 ϕ @400C/C CKD.
S14	200	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.
S15	150	8 ϕ @300C/C ST. 8 ϕ @300C/C CKD.	8 ϕ @400C/C ST. 8 ϕ @400C/C CKD.

SLAB SCHEDULE OF TOP OF U.G.W.R.

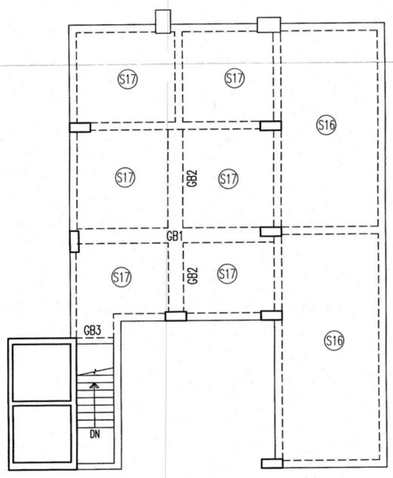
GRADE OF CONCRETE - M25

SLAB MKD.	DEPTH	REINFT. AT SHORTER SPAN	REINFT. AT LONGER SPAN
S16	200	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.	10 ϕ @300C/C ST. 10 ϕ @300C/C CKD.
S17	200	10 ϕ @400C/C ST. 10 ϕ @400C/C CKD.	10 ϕ @400C/C ST. 10 ϕ @400C/C CKD.

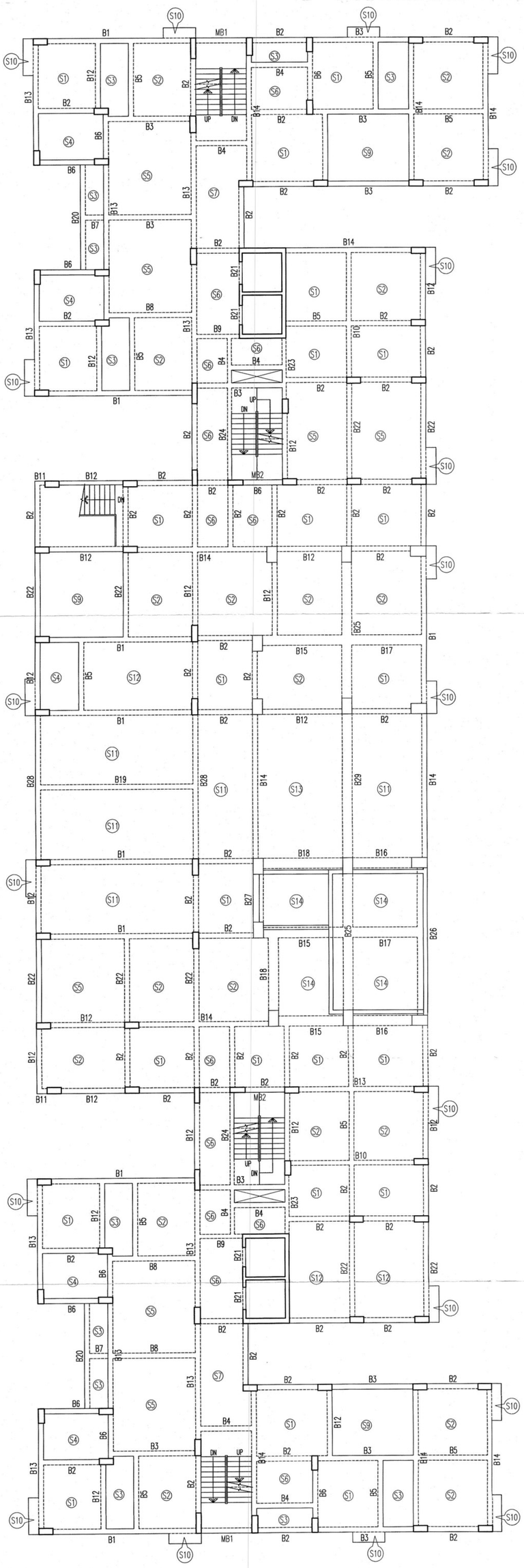
PILE CAP SCHEDULE

GRADE OF CONCRETE - M25

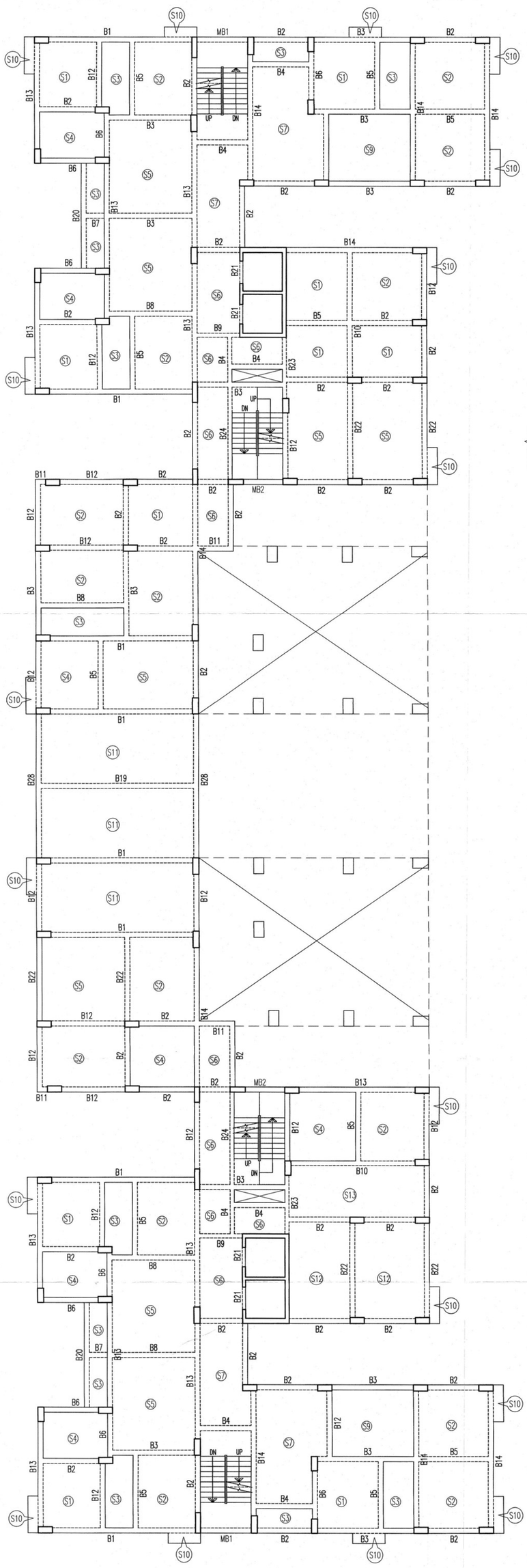
TYPE	SIZE	DEPTH	REINFORCEMENT IN SHORTER DIRECTION	REINFORCEMENT IN LONGER DIRECTION
P2	800x2300	750	4L–10 ϕ @150C/C	10 ϕ @100C/C (T) 20 ϕ @100C/C (B)
P3	AS/DWG	900	10 ϕ @150C/C (T) 16 ϕ @150C/C (B)	10 ϕ @150C/C (T) 16 ϕ @150C/C (B)
P4	2300X2300	1000	10 ϕ @150C/C (T) 16 ϕ @125C/C (B)	10 ϕ @150C/C (T) 16 ϕ @125C/C (B)
P5	2921X2921	1000	10 ϕ @150C/C (T) 16 ϕ @100C/C (B)	10 ϕ @150C/C (T) 16 ϕ @100C/C (B)
P5A	2300X3398	1200	10 ϕ @150C/C (T) 20 ϕ @100C/C (B)	10 ϕ @150C/C (T) 20 ϕ @100C/C (B)
P7	AS/DWG	1600	10 ϕ @150C/C (T) 16 ϕ @100C/C (B)	10 ϕ @150C/C (T) 25 ϕ @100C/C (B)
P8	3398X3800	1600	16 ϕ @125C/C (T) 20 ϕ @150C/C (B)	16 ϕ @125C/C (T) 20 ϕ @150C/C (B)
L21	AS/DWG	1800	20 ϕ @125C/C (T) 25 ϕ @125C/C (B)	20 ϕ @125C/C (T) 25 ϕ @125C/C (B)



TOP OF U.G.W.R. LAYOUT



1ST FLOOR BEAM LAYOUT



2ND FLOOR BEAM LAYOUT

NOTES:–

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
2. SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
3. **ALL GRADE OF CONCRETE M35,M25.**
4. **ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.**
5. FOR STEEL GRADE Fe 415 AS PER I.S 1786–1979.
6. LAPS, SPLICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
7. FOUNDATION & PLINTH : BRICKWORK IN FOUNDATION & PLINTH SHALL BE OF 1ST CLASSBRICK IN 1:6 CEMENT MORTAR.
8. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBER	TOP	BOTTOM	SIDE
a. FOUNDATION BEAM & SLAB	50	50	50
b. COLUMN			40
c. FLOOR BEAM.	30	30	30
d. TIE BEAM.	30	30	30
e. FLOOR SLAB.	20	20	20
f. PILE			50
g. PILE CAP	50	50	50

CERTIFICATE OF OWNER

1. I ENGAGED ARCHITECT AND E.S.E DURING CONSTRUCTION
2. I FOLLOWOED THE INSTUCTIONS OF ARCHITECT AND E.S.E DURING CONSTRUCTION OF THE BUILDING.
3. K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURE STABILITYOF BUILDING AND ADJOINING STRUCTURE.
4. IF ANY SUBMITED DOCUMENT IS FOUND TO BE FAKE THE K.M.C AUTHORITY MAY REVOKE THE SANCTION PLAN.
5. THE CONSTUCTION OF WATER RESERVOIR AND SEPTIC TANK EXECUTED UNDER THE GUIDENCE OF ARCHITECT & E.S.E

Bijaykumar Samanta
Sebait of Sree Sree Madan Mohan Jew Thakur

SIGNATURE OF OWNER

CERTIFICATE OF ARCHITECT

THE L.B.A. HAS CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF K.M.C. BLDG. RULES 2009, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFIRM WITH THE PLAN AND IT IS A BUILD ABLE SITE AND NOT A TANK OR A FILLED UP TANK.

Rajkumar Agarwal
Architect
Member of Council of Architecture CA / 94 / 17940

SIGNATURE OF ARCHITECT

RAJ KUMAR AGARWAL
COUNCIL REGISTRATION NO. CA/94/17940
ADDRESS:
RAJ AGRAWAL & ASSOCIATES
8B, ROYD STREET (2ND FLOOR), KOLKATA–16.

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.
SOIL INVESTIGATION REPORT HAS BEEN DONE BY ALOK ROY OF GEOTEST ENGINEERS PVT. LTD. 6A MILAN PARK, KOLKATA–700084. THE RECOMENDATION OF SOIL REPORT HAS BEEN CONSIDERED DURING STRUCTURAL CALCULATION.

SANJIV J. PAREKH
M.E. (STRUCT.), M.E. (CONST. ENG.).
B. C. E., FIE-(F-018202-4)
E. S. E. NO. 104 (I) K. M. C.

SIGNATURE OF STRUCTURAL ENGINEER

SANJIV. J. PAREKH,
E.S.E. I (104),
ADDRESS:
34 RAMMOHAN DUTTA ROAD,
KOLKATA–20.

SANJIB GUHA
BSC, BCE, FIE-(F-115654-5)
CHARTERED ENGINEER
ENLISTED STRUCTURAL
REVIEWER 88/16 K.M.C.

SIGNATURE OF STRUCTURAL REVIEWER

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34 RAMMOHAN DUTTA ROAD,
KOLKATA–20.

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ALOK ROY
Empanelled Geotechnical Engineer
Kolkata Municipal Corporation
Class–I, No.- G.T/I/11
6A, Milan Park,
Kolkata-700 084

SIGNATURE OF GEO-TECHNICAL ENGINEER

ALOK ROY
B.E.CIVIL, MCE (SOIL MECH & FOUNDAN. ENGG.) M.I.E. MASCE (I), M.A.C.I. (I) MIGS,C. ENG. (I) DIRECTOR
Empanelment No. : 008/G.T. Eng. of Rajpur–Sonarpur Municipality
ADDRESS:
6A MILAN PARK, KOLKATA–700084,

PROJECT

PROPOSED G+X (33.55M. HT.) STORIED RESIDENTIAL BUILDING AT PRE NO.:- 214, RAJA RAM MOHAN ROY ROAD.
P.S. - HARIDEVPUR. WARD NO. - 122,
BOROUGH :- XIII, KOLKATA - 700008.

TITLE

CORPORATION DRAWING
FLOOR BEAM LAYOUT

ARCHITECTS

RAJ AGRAWAL & ASSOCIATES
8B, ROYD STREET,
KOLKOTA-16

STRUCTURAL ENGINEERS

S.P.A. CONSULTANTS
53, JUSTICE CHANDRA MADHAB ROAD
KOLKATA - 700020 . PHONE - 2486-4474,2476-3733 FAX- 475-2484
E-Mail: spa_cons@yahoo.co.in

DRAWN BY- SURAJIT	CHECKED BY	JOB NO. SPA/RAJ/2018/04
DATE- 08.01.2019	SCALE : 1:100,25	DRG. NO. SPA/RAJ/2018/04/CS-02

S-2

PARTY'S COPY

DEVIATION WOULD MEAN DEMOLITION

RESIDENTIAL BUILDING

Necessary steps should be t[illegible] for the safety of the lives of the adjoining public and private properties during construction.

THE SANCTION IS VALID UP TO 23/01/2024

Structural plan and design calculation as submitted by the structural engineer have been kept with B. P. No. 2018130284 Date 24/01/19 for record of the Kolkata Municipal Corporation without verification No. deviation from the submitted structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form, necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of human life during construction.

Asst. Engineer/Technical Advisor / Executive Engineer
BOROUGH NO.- XIII, XIV

2017130279

BUILDING DEPARTMENT
24 JAN 2019
KOL. MUNICIPAL