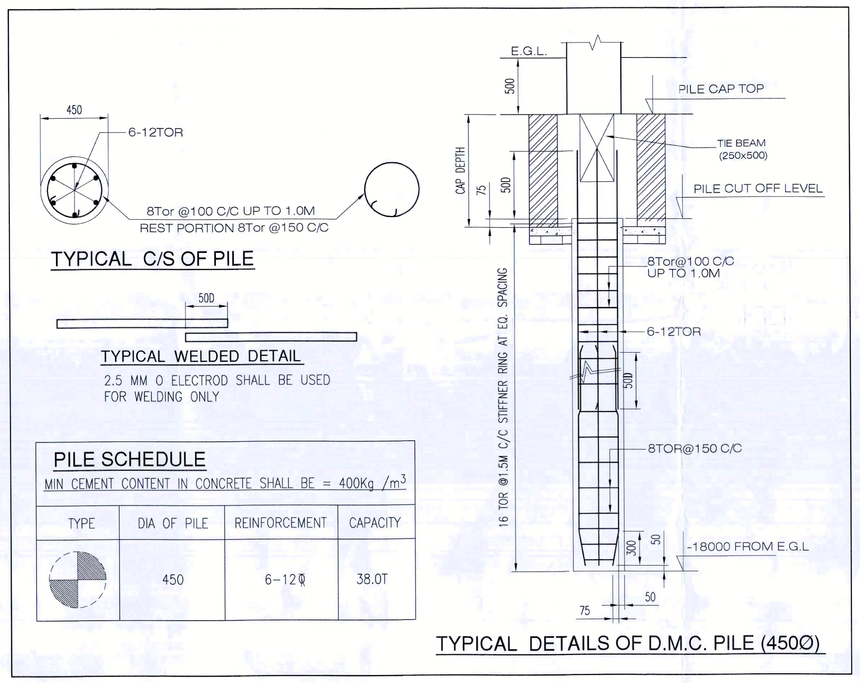


TYPICAL C/S OF PILE

TYPICAL WELDED DETAIL

2.5 MM ⌀ ELECTROD SHALL BE USED FOR WELDING ONLY

PILE SCHEDULE

MIN CEMENT CONTENT IN CONCRETE SHALL BE = 400Kg /m³

TYPE	DIA OF PILE	REINFORCEMENT	CAPACITY
	450	6-12⌀	38.0T

TYPICAL DETAILS OF D.M.C. PILE (450Ø)

COLUMN SCHEDULE (BLOCK -2)

GRADE OF CONCRETE - M25

3RD FLOOR TO ROOF	12-20⌀	4-20⌀+6-16⌀	10-16⌀	4-20⌀+6-16⌀	12-16⌀	8-16⌀	8-16⌀	4-20⌀+4-16⌀
2ND FLOOR TO 3RD FLOOR	12-20⌀	10-20⌀	10-16⌀	10-20⌀	12-16⌀	4-20⌀+4-16⌀	4-20⌀+4-16⌀	8-16⌀
FOUNDATION TO 2ND FLOOR	12-20⌀	10-20⌀	10-20⌀	10-20⌀	12-16⌀	8-20⌀	8-20⌀	8-16⌀
COL SIZE	250X750	250X600	250X600	250X600	250X775	250X600	250X500	250X500
LINK	8⌀@100C/C & 8⌀@200C/C							
COL MARKED	C1	C2	C3	C4	C5	C6	C7	C8

COLUMN SCHEDULE (BLOCK -1)

GRADE OF CONCRETE - M25

3RD FLOOR TO ROOF	4-20⌀+4-16⌀	4-20⌀+4-16⌀	8-16⌀	10-16⌀	14-16⌀	———	10-16⌀
2ND FLOOR TO 3RD FLOOR	8-20⌀	4-20⌀+4-16⌀	4-20⌀+4-16⌀	4-20⌀+6-16⌀	14-16⌀	———	4-20⌀+6-16⌀
FOUNDATION TO 2ND FLOOR	8-20⌀	4-20⌀+4-16⌀	8-20⌀	10-20⌀	14-16⌀	UPTO 1ST FLOOR 4-16⌀	10-20⌀
COL SIZE	250X450	250X450	250X450	250X600	250X750	250X250	250X550
LINK	8⌀@100C/C & 8⌀@200C/C						
COL MARKED	C1	C2	C3	C4	C5	C6	C7

ALL FLOOR BEAM SCHEDULE (BLOCK 1 & 2)

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	5-16⌀	2-16⌀	2-16⌀	3-16⌀	2L-8⌀ @100C/C	2L-8⌀ @150C/C
B2	250	500	5-16⌀	2-16⌀	2-16⌀	3-16⌀	2L-8⌀ @100C/C	2L-8⌀ @150C/C
B3	250	500	2-16⌀	2-16⌀+1-20⌀	2-16⌀	4-16⌀+1-20⌀	2L-8⌀ @150C/C	2L-8⌀ @150C/C
B4	250	500	2-16⌀	2-16⌀	2-16⌀	3-16⌀	2L-8⌀ @150C/C	2L-8⌀ @150C/C
B5	200	500	3-16⌀	2-16⌀	2-16⌀	2-16⌀	2L-8⌀ @100C/C	2L-8⌀ @150C/C
B6	150	500	2-16⌀	2-16⌀	2-16⌀	2-16⌀	2L-8⌀ @100C/C	2L-8⌀ @100C/C
B7	250	500	4-16⌀	2-16⌀	4-16⌀	2-16⌀	2L-8⌀ @100C/C	2L-8⌀ @100C/C
B8	250	500	6-16⌀	2-16⌀	6-16⌀	2-16⌀	2L-8⌀ @100C/C	2L-8⌀ @100C/C
B9	250	750	6-20⌀	2-20⌀	6-20⌀	2-20⌀	2L-8⌀ @100C/C	2L-8⌀ @100C/C
MB1	200	500	3-16⌀	2-16⌀	2-16⌀	3-16⌀	2L-8⌀ @100C/C	2L-8⌀ @100C/C
MB2	250	500	3-16⌀	2-16⌀	2-16⌀	3-16⌀	2L-8⌀ @100C/C	2L-8⌀ @200C/C

ALL FLOOR SLAB SCHEDULE (BLOCK 1 & 3)

GRADE OF CONCRETE - M25

SLAB MKD.	DEPTH	REINFT. AT SHORTER SPAN	REINFT. AT LONGER SPAN
S1	125	8⌀ @300C/C ST. 8⌀ @300C/C CKD.	8⌀ @300C/C ST. 8⌀ @300C/C CKD.
S2	125	8⌀ @400C/C ST. 8⌀ @400C/C CKD.	8⌀ @400C/C ST. 8⌀ @400C/C CKD.
S3	150	8⌀ @300C/C ST. 8⌀ @300C/C CKD.	8⌀ @300C/C ST. 8⌀ @300C/C CKD.
S4	125	8⌀ @400C/C ST. 8⌀ @400C/C CKD.	8⌀ @400C/C ST. 8⌀ @400C/C CKD.
S5	175	10⌀ @300C/C ST. 10⌀ @300C/C CKD.	10⌀ @300C/C ST. 10⌀ @300C/C CKD.

PILE CAP SCHEDULE

GRADE OF CONCRETE - M25

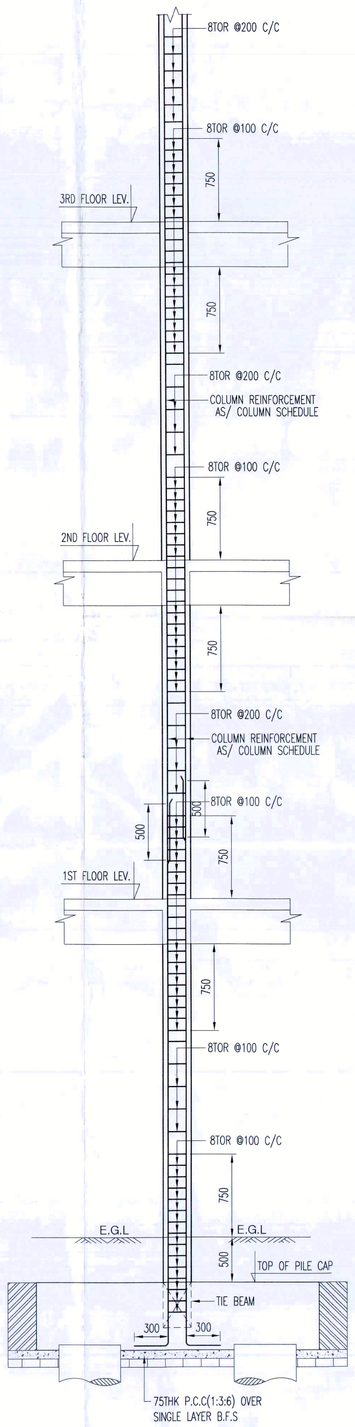
TYPE	SIZE	DEPTH	REINFORCEMENT IN SHORTER DIRECTION	REINFORCEMENT IN LONGER DIRECTION
P1	750X750	900	10⌀ @150 C/C (T) 16⌀ @125 C/C (B)	10⌀ @150 C/C (T) 16⌀ @125 C/C (B)
P2	750X2100	900	4L-12⌀ @150 C/C	10⌀ @150 C/C (T) 16⌀ @125 C/C (B)
P3	AS/DWG	900	10⌀ @150 C/C (T) 16⌀ @125 C/C (B)	10⌀ @150 C/C (T) 16⌀ @125 C/C (B)
P4	2100X2100	900	10⌀ @150 C/C (T) 16⌀ @100 C/C (B)	10⌀ @150 C/C (T) 16⌀ @100 C/C (B)
L5	2659X2659	900	16⌀ @125 C/C (T) 16⌀ @125 C/C (B)	16⌀ @125 C/C (T) 16⌀ @125 C/C (B)

NOTES :-

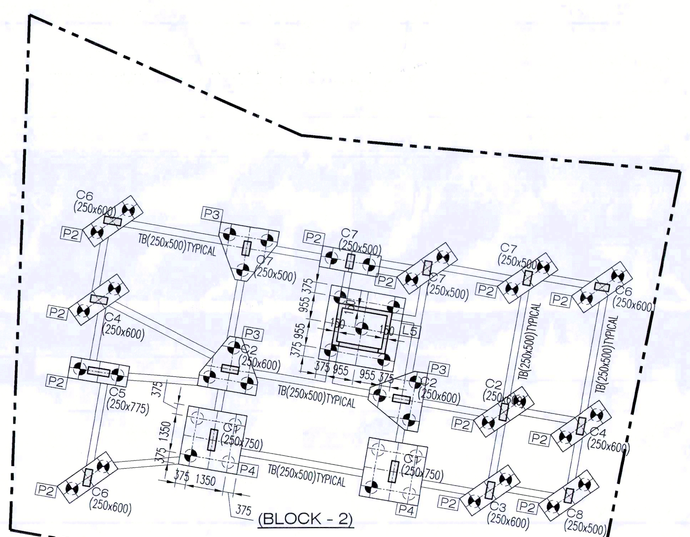
1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
2. SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
3. ALL GRADE OF CONCRETE M25.
4. ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.
5. FOR STEEL GRADE Fe 500 AS PER I.S 1786-2008.
6. LAPS, SPLICES & BOND LENGTH 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. TIE BEAM.	30	30	30
d. FLOOR BEAM.	30	30	30
e. FLOOR SLAB.	20	20	20
e.PILE	–	–	50
f.PILECAP	50	50	50

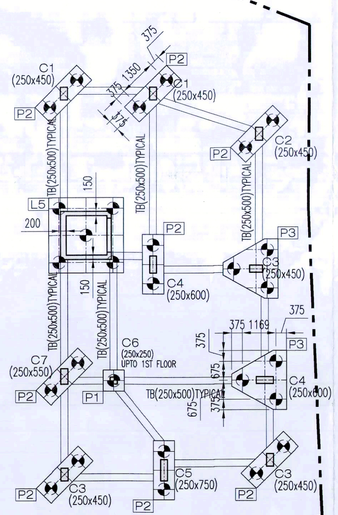
9. THIS DRAWING IS THE PROPERTY OF M/S S.P.A CONSULTANT AND CANNOT BE COPIED OR USED WITHOUT THEIR WRITTEN PERMISSION.



TYPICAL DETAILS OF COLUMN REINFORCEMENT

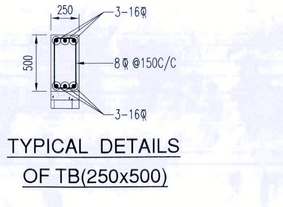


(BLOCK - 2)

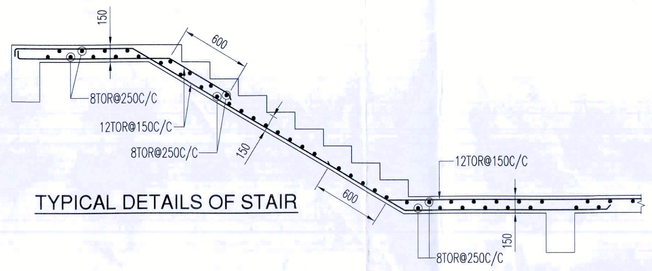


(BLOCK - 1)

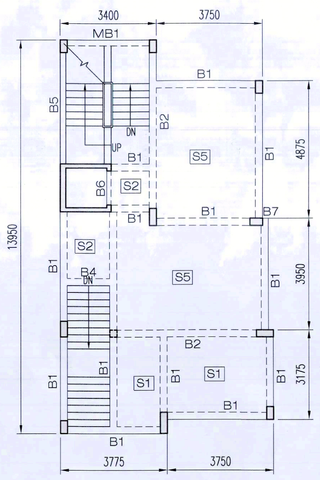
PILE & TIE BEAM LAYOUT



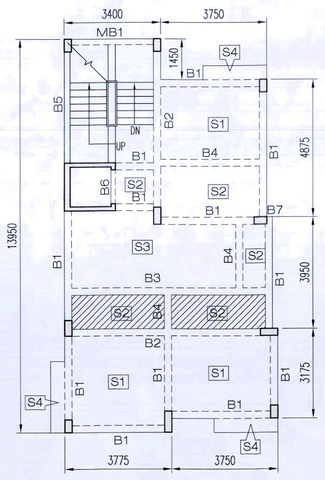
TYPICAL DETAILS OF TB(250x500)



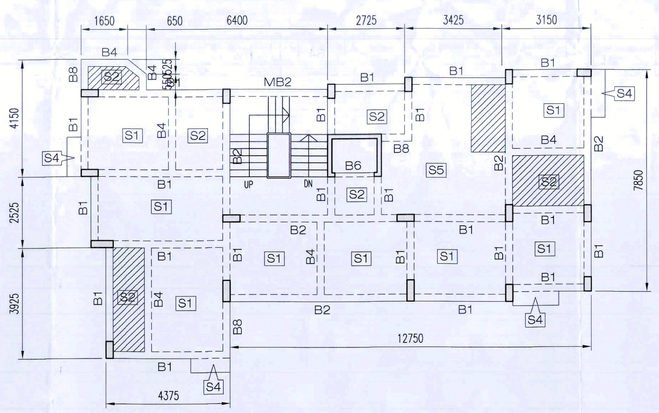
TYPICAL DETAILS OF STAIR



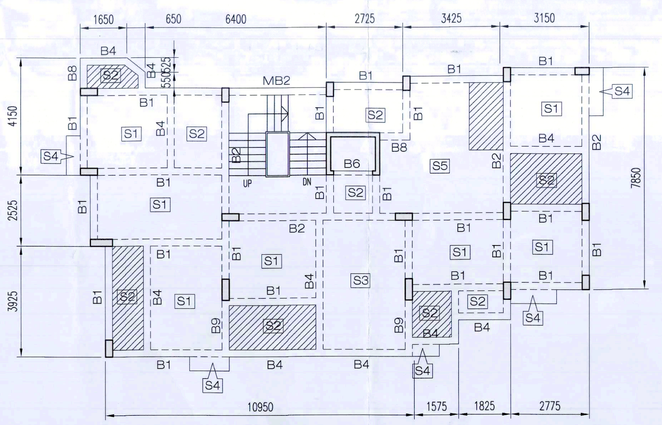
1ST FLOOR BEAM LAYOUT (BLOCK - 1)



TYPICAL (2ND TO 4TH) FLOOR BEAM LAYOUT (BLOCK - 1)



1ST FLOOR BEAM LAYOUT (BLOCK - 2)



TYPICAL (2ND TO 4TH) FLOOR BEAM LAYOUT (BLOCK - 2)

CERTIFICATE OF OWNER

1. I SHALL ENGAGE ARCHITECT AND E.S.E DURING CONSTRUCTION
2. I SHALL FOLLOW THE INSTUCTIONS OF ARCHITECT AND E.S.E DURING CONSTRUCTION OF THE BUILDING..
3. K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURE STABILITY OF 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

GUNJAN AGENCY PRIVATE LIMITED
Director / Authorised Signatory

TEXILA COMMERCE PRIVATE LIMITED
Director / Authorised Signatory

SIGNATURE OF OWNER
A) GUNJAN AGENCY PRIVATE LTD.
B) TEXILA COMMERCE PRIVATE LTD.
ADDRESS:
2, ROWLAND ROAD
KOLKATA-700020.

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 ALOKE ROY (EMPANELLED NO-11/) 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.),
R. C. P., FIE.-F-018202-4)
E. S. E. NO. 104 (1) K. M. C.

SIGNATURE OF STRUCTURAL ENGINEER
SANJIV J. PAREKH,
E.S.E. I (104),
ADDRESS.
34 RAMMOHAN DUTTA ROAD,
KOLKATA - 700020.

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.

UNDERSIGNED HAS INSPECTED THE SITE AND CARRIED OUT SOIL INVESTIGATION THEREON. IT IS CERTIFIED THAT THE EXISTING SOIL OF THE SITE IS ABLE TO CARRY THE LOAD COMING FROM THE PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM PROPOSED HEREIN IS SAFE & STABLE IN ALL RESPECT FROM GEO-TECHNICAL POINT OF VIEW.

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
ALOKE ROY
EMPANELLED NO.-11/)
ADDRESS:
6A, MILAN PARK
P.O.-GARIA,
KOLKATA – 700084.

DIGITAL OF SIGN. OF A.E. DIGITAL OF SIGN. OF E.E.

B. P. NO.–.....DATED.....
VALID UP TO.....

PROJECT

PROPOSED G+IV STORIED (15.5 MT. HT.) RESIDENTIAL BUILDING AT PRE. NO.-1095,MAHATMA GANDHI ROAD, R.S. DAG NO. 3614/ 3799 & 3655, R.S. KHATIAN NO.-1831 & 3103, J.L. NO.-23, MOUZA-PURBA BARISA, P.S.-THAKURPUKUR, WARD NO.-124, BOROUGH-XIV, KOLKATA-700063.

TITLE

STRUCTURAL LAYOUT PLAN

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

STRUCTURAL CONSULTANT
S.P.A.CONSULTANTS
34, RAM MOHAN DUTTA ROAD
KOLKATA - 700020
PH. NO. - 2485-5448/5449,2475-7614
E-mail spa_cons@yahoo.co.in

DRAWN BY	CHECKED BY	DATE	SCALE
Bidhu	Nabju	21.07.2021	1:100,25

JOB NO.					
2021	117	RAJ AGRAWAL	SPA	1095 M.G. ROAD	

DRG. NO. 2021/117/RAJ AGRAWAL/SPA/1095 M.G. ROAD/CS-01