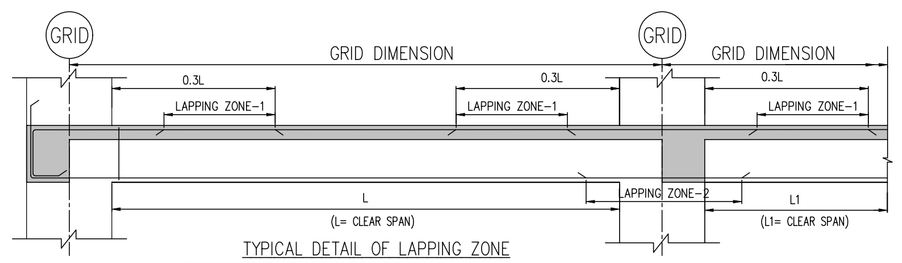
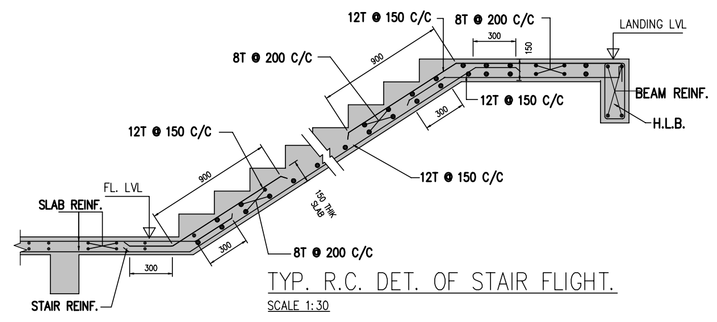


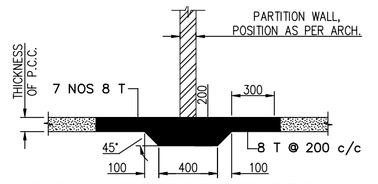
TYPICAL DETAIL OF LAPPING ZONE

LAPPING ZONE-1 FOR TOP REINFORCEMENT
LAPPING ZONE-2 FOR BOTTOM REINFORCEMENT

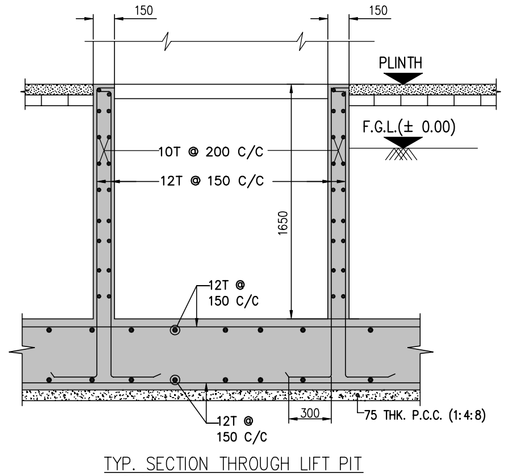
LAP TO BE PROVIDED DEPENDING UPON THE BAR LENGTH AND SITE SUITABILITY.



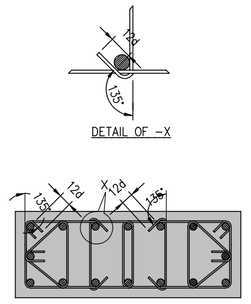
TYP. R.C. DET. OF STAIR FLIGHT.
SCALE 1:30



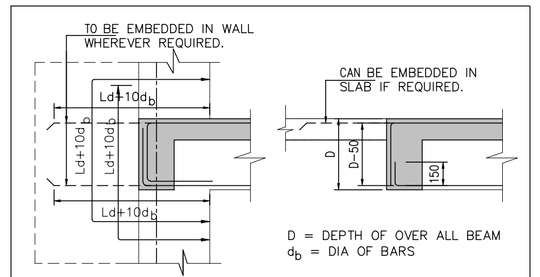
TYPICAL DETAIL OF PARTITION WALL
(NOT SHOWN IN PLAN FOR CLARITY)



TYP. SECTION THROUGH LIFT PIT
SCALE 1:30



ENLARGED PLAN SHOWING TYPICAL DETAILS OF LINKS COVER TO COL./WALL REINF.



D = DEPTH OF OVER ALL BEAM
d_b = DIA OF BARS

TYP. DET. OF END CONNECTION OF BEAM

GRADE OF CONCRETE	Ld = DEVELOPMENT LENGTH
	Fe–500
M 25	48.5 X d_b

A. Reinforcement:

a) Unless otherwise specified all reinforcement to be used shall be TMT. bars of grade Fe–500 confirming to IS–1786–2008 and elongation shall be minimum 14.5 percent.
b) Adequate chair bars to be provided to keep the top reinforcement in proper position.
c) unless otherwise stated lap length of bars shall be development length.
d) Unless otherwise specified distribution reinforcement shall be 8 T @ 300 c/c

6. Unless otherwise stated concrete cover to main reinforcement shall be as follows:

GRADE SLAB	: 20MM	TIE BEAM	: 25MM
COLUMNS	: 40MM	FLOOR BEAMS	: 25MM
FDN OR STITCHING SLAB	: 50MM	FLOOR SLABS	: 20MM
SHEAR WALL	: 40MM	STAIR CASE	: 20MM
WATER TANK	NEAR WATER FACE	: 45MM	
	AWAY FROM WATER FACE	: 25MM	

B. STRUCTURAL CONCRETE

A) Unless otherwise specified Grade of Concrete in structural members shall be M25
COMPACTION OF CONCRETE SHALL BE DONE BY MECHANICAL VIBRATOR.PROPER CARE SHALL BE TAKEN TO AVOID SEGREGATION AND HONEYCOMBING.

C. NOTES FOR SLAB:

1. All small cutouts (size maximum 300x400) are not shown in plan. coordinate with arch & services drg. for the same .Trimmer bar should be provided.(2+2)10T ext.
2. For cutouts exceeding above mention size, trimmer bars should be provided as shown in respective slab reinf. drg.
3. SUPPORT REINFORCEMENT IN SLAB FOR ADJACENT PANELS :– provide greater of the two (i.e reinf.with lesser spacing) unless specified otherwise.
4. Support reinforcement in slab shall be 0.2l / 0.3l Or development length i.e 50 x dia of bar. whichever is greater from the face of support.
5. Distribution steel not shown in drawing for clarity, provide 8 T @ 300 c/c.
6. CURTAILMENT OF BOTTOM REINF. :– No curtailment of btm. reinf. shall be done for bars having spacing 200 c/c Or more.

D. GENERAL NOTES:

1. Unless otherwise stated all construction activities shall be carried out conforming to relevant (Indian) standard codes of practice.
2. All dimensions are in millimeters & levels are in Meter. Except otherwise mentioned only written dimensions shall be followed. All levels given in structural drawings are in accordance with architectural drawings. and indicates structural level only (without finish). However architectural drawing to be coordinated for all levs.
3. All structural drawing shall be read along with this drawing as well as relevant architectural drawings.
4. Any discrepancy in the structural and architectural drawings shall be brought to the notice of design office before execution of work.

NOTE:–
1. GRADE OF CONCRETE:– M25 APPROVED DESIGN MIX
2. GRADE OF STEEL:– Fe–500D

SCHEDULE OF COLUMNS

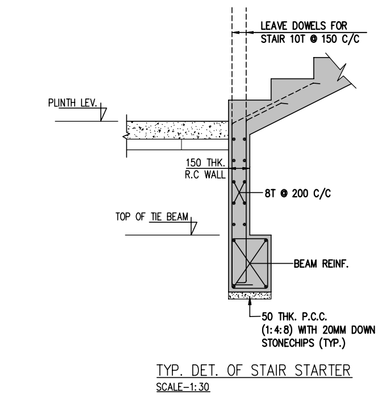
ROOF LEV. TO 2ND. FLOOR	M–25 8–12T	M–25 8–12T	M–25 8–12T	M–25 8–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 4–20T + 8–16T	M–25 4–20T + 8–16T	12–16T	M–25 4–20T + 8–16T	M–25 4–20T + 8–16T	M–25 4–20T + 8–16T	12–16T	8–16T
2ND. FLOOR TO FOUNDATION	M–25 8–16T	M–25 8–16T	M–25 8–16T	M–25 8–16T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–16T + 4–12T	M–25 8–20T + 4–16T	M–25 8–20T + 4–16T	M–25 4–20T + 8–16T	M–25 8–20T + 4–16T	M–25 8–20T + 4–16T	M–25 8–20T + 4–16T	M–25 4–20T + 8–16T	12–16T
COL. SIZE	200x1600	200x1400	200x1200	200x1150	200x1050	200x1025	200x1000	200x975	200x925	200x900	200x800	300x550	300x525	300x500	300x450	300x425	300x400	300x400	300x400
LEVEL / COL.MKD.	C24.	C34.	C15,C30.	C23.	C29.	C28.	C37.	C8.	C52.	C6,C22,C43.	C1,C3,C4,C5, C7,C11,C49, C53,C54.	C17.	C10.	C16.	C12.	C27.	C14,C19,C21, C25,C26,C31.	C9,C18,C32, C33,C35,C36, C38,C39,C40.	C2,C13,C20, C41,C42,C44, C45,C46,C47, C48,C50,C51.

SCHEDULE OF TYP. FLOOR BEAMS

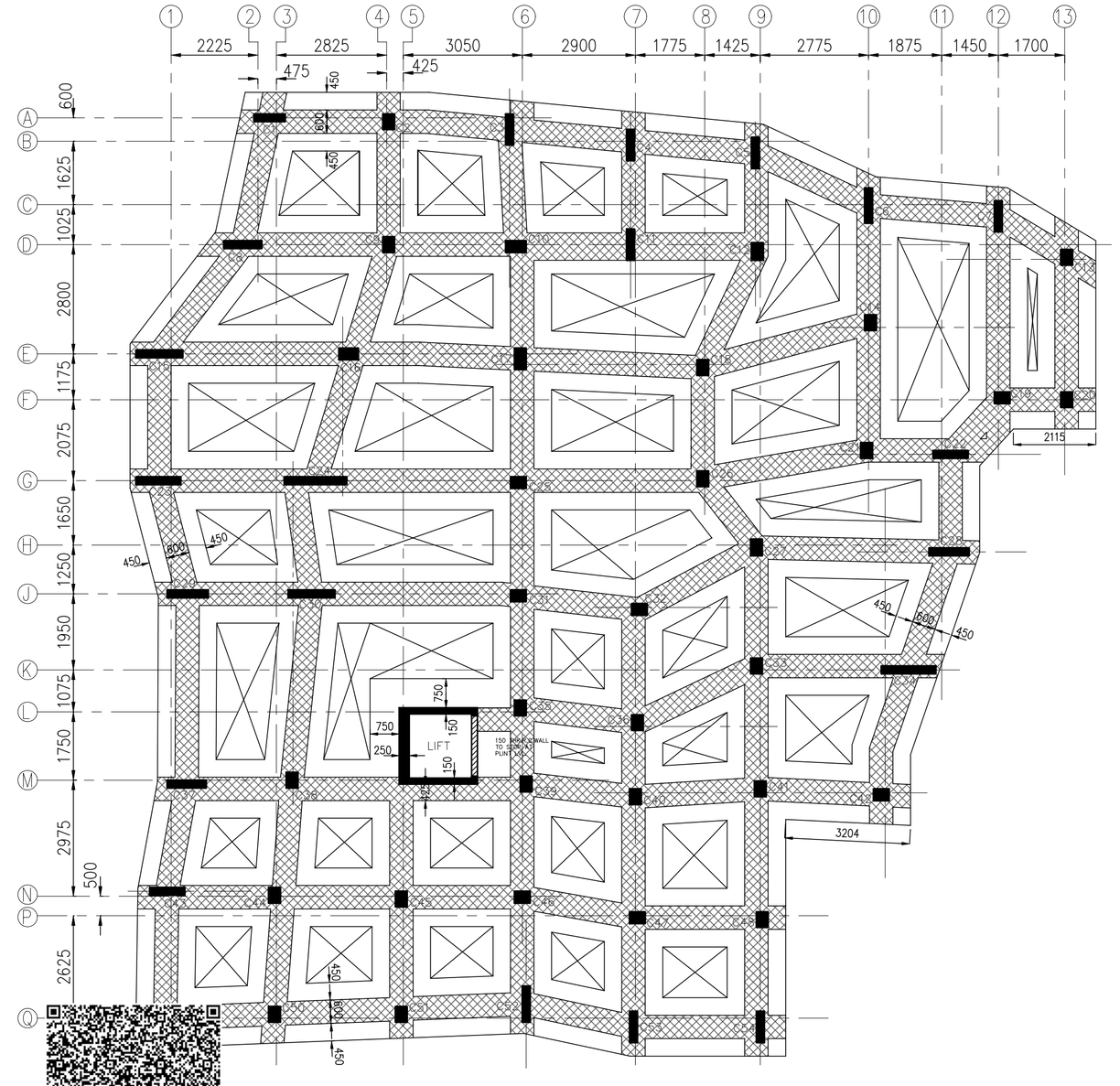
BEAM MKD.	BEAM SIZE	BEAM REINF. END SUPPT. (T)	END SUPPT. (B)	MID SPAN (T)	MID SPAN (B)	CONT. SUPPT. (T)	CONT. SUPPT. (B)	CANT END (T)	CANT END (B)	STIRRUP UPTO L/3 FROM SUPPT.	STIRRUP MID SPAN	REMARKS
B1	200X500	2–16T(I) + 1–12T(I)	2–16T(I)	2–16T(I)	2–16T(I)	2–16T(I) + 2–12T(I)	2–16T(I)	–	–	8T 2L @100 C/C	8T 2L @200 C/C	
B2	250X500	3–16T(I) + 2–16T(I)	2–16T(I)	2–16T(I)	2–16T(I) + 2–12T(II)	3–16T(I) + 2–16T(II)	2–16T(I)	–	–	8T 2L @100 C/C	8T 2L @200 C/C	
B3	200X500	2–16T(I) + 2–12T(I)	2–16T(I)	2–16T(I)	2–16T(I)	–	–	2–16T(I)	2–16T(I)	8T 2L @100 C/C	8T 2L @200 C/C	
B4	200X500	2–16T(I) + 2–20T(I)	2–16T(I)	2–16T(I)	2–16T(I) + 2–16T(II)	2–16T(I) + 2–20T(II)	2–16T(I)	–	–	8T 2L @100 C/C	8T 2L @200 C/C	
B5	200X500	2–16T(I)	2–16T(I)	2–16T(I)	2–16T(I)	–	–	–	–	8T 2L @100 C/C	8T 2L @200 C/C	
B6	150X500	2–16T(I)	2–16T(I)	2–16T(I)	2–16T(I)	–	–	–	–	8T 2L @100 C/C	8T 2L @200 C/C	

SCHEDULE OF SLABS

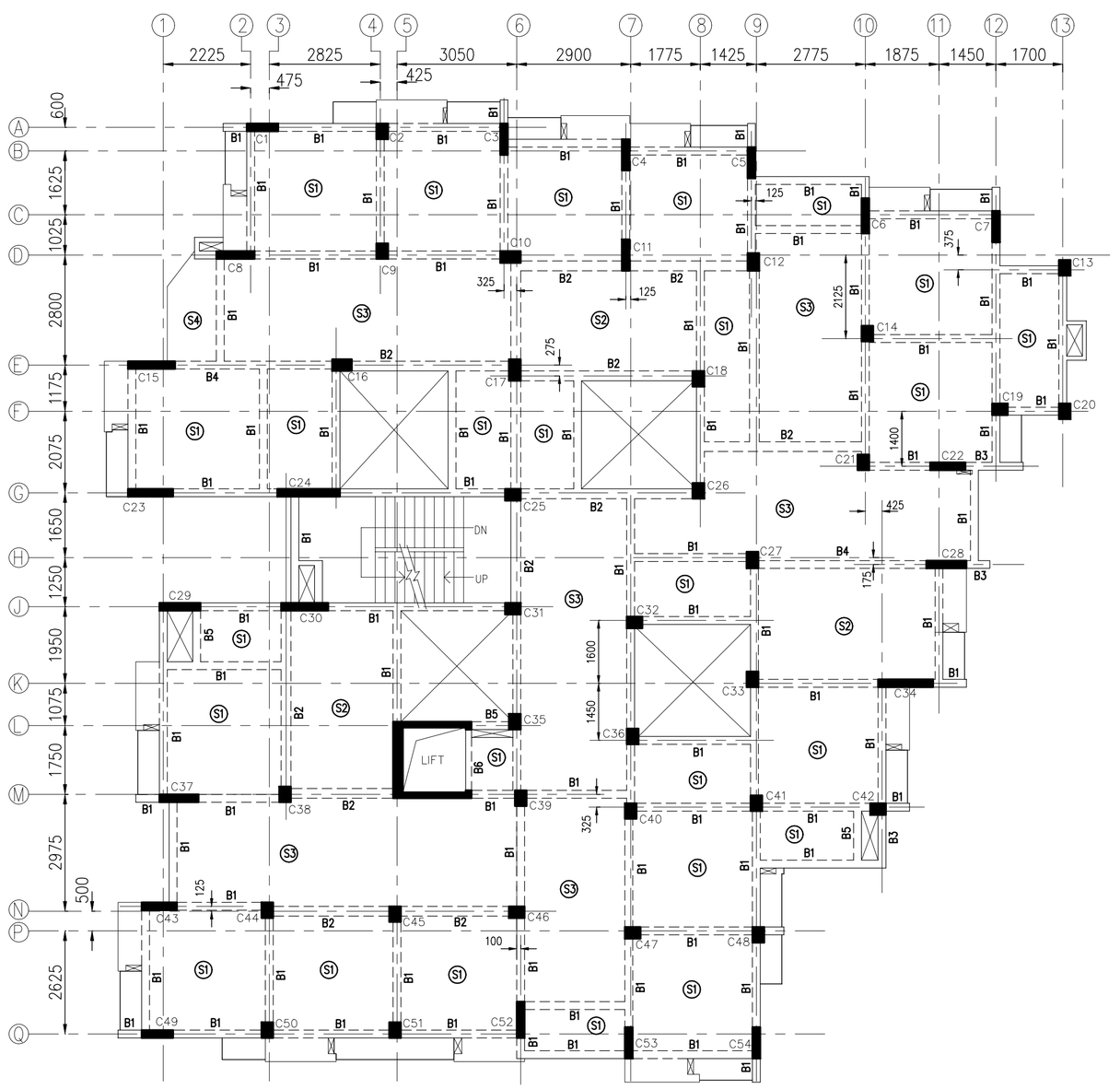
SLAB MKD.	SLAB THK.	SLAB REINF. SHORTER DIR. SUPPORT	SHORTER DIR. MID SPAN	LONGER DIR. SUPPORT	LONGER DIR. MID SPAN	DIST.
S1	100	8T @ 175 C/C	8T @ 200 C/C	8T @ 200 C/C	8T @ 225 C/C	8T @ 250 C/C
S2	115	8T @ 175 C/C	8T @ 200 C/C	8T @ 200 C/C	8T @ 225 C/C	8T @ 250 C/C
S3	125	8T @ 150 C/C	8T @ 150 C/C	8T @ 250 C/C	8T @ 250 C/C	8T @ 250 C/C
S4	150	8T @ 100 C/C	8T @ 100 C/C	–	–	8T @ 250 C/C



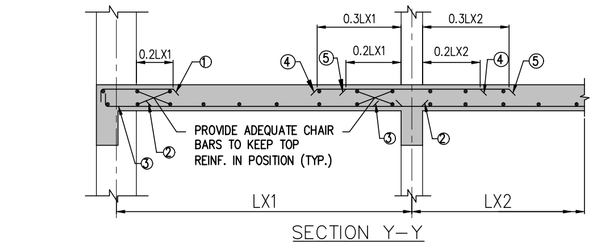
TYP. DET. OF STAIR STARTER
SCALE–1:30



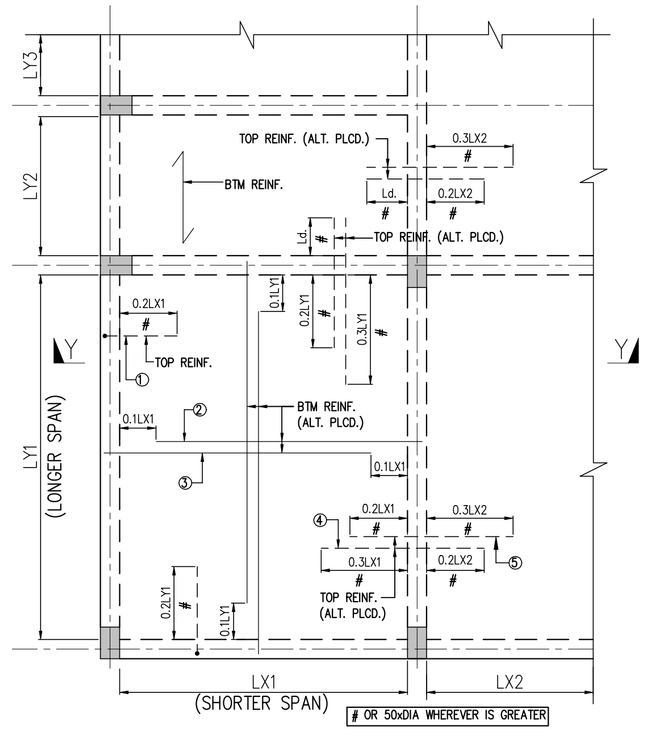
FOUNDATION LAYOUT (BLOCK–1)
SCALE–1:100



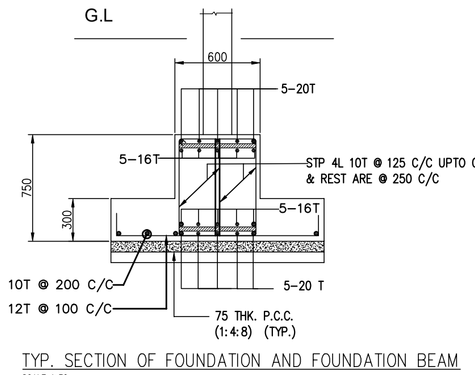
G.A. AT TYPICAL FLOOR LVL. (BLOCK–1)
SCALE–1:100



SECTION Y–Y
SCALE 1:50



TYPICAL REINF. ARRANGEMENT IN SLAB PANEL
SCALE 1:50



TYP. SECTION OF FOUNDATION AND FOUNDATION BEAM
SCALE 1:30

PROJECT

PROPOSED G+IV STORIED RESIDENTIAL COMPLEX AT MOUZA - JAGADDAL, J.L. NO. 71, L.R. DAG. NO.-1111,3047, L.R. KHATIAN NO.5126, 5127 & 5128 , WARD NO.26, HOLDING NO. 203, RAMCHAND DEY STREET UNDER RAJPUR SONARPUR MUNICIPALITY,P.S.-SONARPUR, DISTRICT - SOUTH 24 PARGANAS, KOLKATA-700151.

TITLE

STRUCTURAL DRAWING & DETAILS (BLOCK-1).

SPECIFICATIONS

1. ALL DIMENSIONS ARE IN MM.
2. ALL EXTERNAL WALLS ARE 200 THK. & ALL INTERNAL WALLS ARE 125 THK, UNLESS OTHERWISE MENTIONED
3. ALL P.C.C. WORK IN 1:3:6
4. ALL R.C.C. WORK IN 1:2:4
5. ALL OTHER SPECIFICATIONS CONFORMING RELEVANT I.S. CODE.

NIROSHINI TECHNOLOGY LLP
MAHESHWARI COMMOTRADE LLP
KHAITAN CONSTRUCTION LLP
NAME OF OWNERS

Declaration of Architect

I do hereby certify that the building plans, elevations, sections and other structural details of the proposed building under the jurisdiction of Rajpur-Sonarpur Municipality have been prepared in conforming with all relevant provisions under the West Bengal Municipal (Building) Rules,2007 .This also to certify that relevant 'no objection' certificates from the respective authorities such as. Fire and Emergency Service Department , Airport Authority, Pollution Control Board, Telecommunication Department etc. as applicable in this regard, are also enclosed with the application for seeking approval of the plan to construct / reconstruct/addition to alteration of the building .

SANJAY MANDAL
EBA- CLASS (I)
C.A./98/2/3621
ENLISMENT NO.-707
PHONE NO.-9903060016
NAME OF THE ARCHITECT

Declaration of Structural Engineer

I do hereby certify that the foundation and superstructure of the building proposed for construction under the jurisdiction of Rajpur-Sonarpur Municipality have been personally inspected and so designed by me will make such foundation and superstructure safe in all respect including the consideration of bearing capacity and settlement of soil and other conditions , if any, conforming to all stipulations of all relevant IS Code of Practice and National Building Code.

SUNANDAN NARAYAN BASU
ENLISMENT NO.-073/RAJPUR/ESE/11-12
PHONE NO.-9831018554
NAME OF STRUCTURAL ENGINEER

Declaration of Geotechnical Engineer

I do hereby certify that the foundation and super structure of the building proposed for construction at holding 203, Ramchand Dey Street ,ward no. 26, under the jurisdiction of Rajpur-Sonarpur Municipality have been personally inspected and so design by me will make such foundation and superstructure safe in all respect including the consideration of bearing capacity and settlement of soil and other conditions. if any, confirming to all stipulations of all relevant IS code of practice and National Building code.

ALOK ROY
ENLISMENT NO.-008/G.T.Eng.,Class-I
PHONE NO.-9831012007
NAME OF GEO-TECHNICAL ENGINEER

DRAWING No. : IN / 1298/CORP/STRUC/01

JOB No. :	IN / 1298	DRAWN BY	SWAPNA
SCALE	AS SHOWN	CHECKED BY	B.D.
DATE	14/07/2023	APPVD. BY	S.N.B.
ISSUED FOR		SANCTION	

ARCHITECT

26/2, BALLYGUNGE CIRCULAR ROAD,
UDAYAN PARK, 3rd. FLOOR
TEL : (033) 4000-6424, 6425, 6426
KOLKATA - 700 019
www.innateindia.com

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