

10960

3300

5160

12900



STRUCTURAL DETAILS OF BLOCK - II

SCHEDULE OF R.C.C. SLABS

SLAB MKD	THICKNESS (mm)	REINFORCEMENT PARALLEL TO SHORTER DIRECTION		REINFORCEMENT PARALLEL TO LONGER DIRECTION	
		AT MIDDLE SPAN	AT END SPAN	AT MIDDLE SPAN	AT END SPAN
S1	110	8 Φ @ 150 c/c (bott.)	8 Φ @ 150 c/c (top) 8 Φ @ 300 c/c (bott.)	8 Φ @ 150 c/c (bott.)	8 Φ @ 150 c/c (top) 8 Φ @ 300 c/c (bott.)
S2	110	8 Φ @ 100 c/c (top.)	8 Φ @ 100 c/c (top) 8 Φ @ 200 c/c (bott.)	8 Φ @ 100 c/c (top.)	8 Φ @ 100 c/c (top) 8 Φ @ 200 c/c (bott.)

SCHEDULE OF TIE-BEAMS

BEAM MKD.	BEAM SECTION	SIZE & REIN. AT SUPPORT		STIRRUP AT SUPPORT	SIZE & REIN. AT SPAN		STIRRUP AT SPAN
		TOP	BOTTOM		TOP	BOTTOM	
ALL	250X350	4 - 12 Φ	2 - 12 Φ	8 TOR 2L @ 150 C/C	2 - 12 Φ	4 - 12 Φ	8 TOR 2L @ 150 C/C

SCHEDULE OF RIB BEAMS

RIB BEAM UNDER FOUND. MKD.	BEAM SECTION	SIZE & REIN. AT SUPPORT		STIRRUP AT SUPPORT	SIZE & REIN. AT SPAN		STIRRUP AT SPAN
		TOP	BOTTOM		TOP	BOTTOM	
F1, F2, F3, F4, F6, F7, F8, F9, F10, F11	450X550	3 - 16 Φ	5 - 16 Φ	8 TOR 4L @ 150 C/C	5 - 16 Φ	3 - 16 Φ	8 TOR 4L @ 150 C/C
F5	525X550	3 - 16 Φ	5 - 16 Φ	8 TOR 4L @ 150 C/C	5 - 16 Φ	3 - 16 Φ	8 TOR 4L @ 150 C/C

SCHEDULE OF R.C.C. BEAMS

BEAM MKD.	BEAM SECTION	SIZE & REIN. AT SUPPORT		STIRRUP AT SUPPORT	SIZE & REIN. AT SPAN		STIRRUP AT SPAN
		TOP	BOTTOM		TOP	BOTTOM	
B1	250X400	2 - 16 Φ + 2 - 12 Φ	2 - 16 Φ	8 TOR 2L @ 150 C/C	2 - 16 Φ	2 - 16 Φ + 2 - 12 Φ	8 TOR 2L @ 150 C/C
B2	250X350	2 - 16 Φ + 2 - 12 Φ	2 - 16 Φ	8 TOR 2L @ 150 C/C	2 - 16 Φ	2 - 16 Φ + 2 - 12 Φ	8 TOR 2L @ 150 C/C
B3	250X350	2 - 16 Φ + 2 - 12 Φ	2 - 16 Φ	8 TOR 2L @ 150 C/C	2 - 16 Φ	2 - 16 Φ + 2 - 16 Φ	8 TOR 2L @ 150 C/C
B4	250X350	2 - 16 Φ + 2 - 16 Φ	2 - 16 Φ	8 TOR 2L @ 150 C/C	2 - 16 Φ	2 - 16 Φ + 2 - 12 Φ	8 TOR 2L @ 150 C/C
B5	250X450	3 - 16 Φ + 2 - 16 Φ	2 - 16 Φ	8 TOR 2L @ 150 C/C	2 - 16 Φ	2 - 16 Φ + 2 - 16 Φ	8 TOR 2L @ 150 C/C

SCHEDULE OF R.C.C. COLUMNS

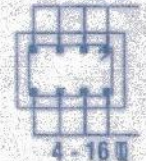
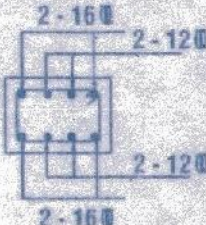
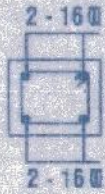
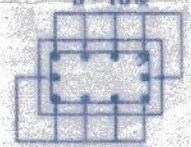
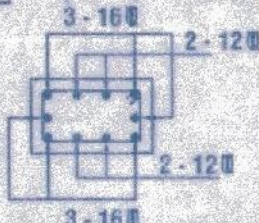
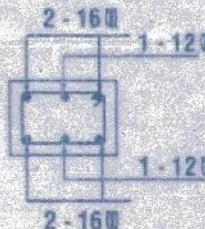
COLUMN MKD.	SIZE & REIN. FROM BASE TO 2ND FL. LVL.	SIZE & REIN. FROM 2ND FL. LVL. TO ROOF. LVL.	STIRRUP
C1, C2, C3, C6, C10, C13, C18, C19, C20, C21, C22, C23, C24, C25, C26, C32, C34, C43, C44, C45, C51, C52	250 X 400 4 - 16 Φ	250 X 400 2 - 16 Φ 2 - 12 Φ 2 - 12 Φ 2 - 16 Φ	8 TOR @ 200 C/C
C4, C5, C7, C16, C27, C28, C29, C31, C33, C35, C36	250 X 450 6 - 16 Φ	250 X 450 3 - 16 Φ 3 - 12 Φ 3 - 12 Φ 3 - 16 Φ	8 TOR 2L @ 200 C/C
C8, C9, C11, C12, C14, C15, C17, C30, C37, C38, C40, C46, C47, C48, C49, C50	250 X 500 6 - 16 Φ	250 X 500 3 - 16 Φ 3 - 12 Φ 3 - 12 Φ 3 - 16 Φ	8 TOR 2L @ 200 C/C
C39, C41, C42	350 X 550 6 - 20 Φ	350 X 550 3 - 16 Φ 3 - 12 Φ 3 - 12 Φ 3 - 16 Φ	8 TOR 2L @ 200 C/C

SCHEDULE OF STRIP FOUNDATIONS

FDN. MKD.	SIZE OF FDN.	UNDER COLUMN	THICKNESS MM.		REIN. IN SLAB	
			AT HEEL	AT TOE	ALONG SHORTER DIRECTION	ALONG LONGER DIRECTION
F1	15200X2400	C1, C4, C7, C10, C13	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F2	15400X2600	C2, C5, C8, C11, C14	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F3	15200X2400	C3, C6, C9, C12, C15	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F4	11400X2200	C16, C17, C18	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F5	10272X3000	C19, C20, C21, C22, C23, C24, C25, C26	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F6	13000X2600	C27, C28, C29, C30	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F7	25148X2600	C35, C36, C37, C38, C39, C40, C41, C42	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F8	1175X2400	C31, C33, C43, C51	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F9	11750X2000	C32, C34, C44, C52	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F10	11350X2600	C45, C46, C47	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C
F11	11400X2600	C48, C49, C50	350	200	12 TOR @ 150 C/C	8 TOR @ 100 C/C

**DETAILS OF STRIP
FOUNDATION MKD - F10
BLOCK - II**

**DETAILS OF ISOLATED
FOUNDATION (F1)**
SCALE - 1 : 50
BLOCK - I

COLUMN MKD.	SIZE & REIN. FROM BASE TO 2ND.FL. LVL.	SIZE & REIN. FROM 2ND. FL. LVL. TO 3RD.FL. LVL.	SIZE & REIN. FROM 3RD. FL. LVL. TO ABOVE.FL. LVL.	STIRRUP
C1,C2,C5, C6,C7,C8, C11,C12.	250 X 350 	250 X 350 	250 X 300 	# TOR 2L@ 150 C/C
C3,C4,C9, C10.	250 X 400 	250 X 400 	250 X 350 	# TOR 2L@ 125 C/C

SPECIFICATIONS

1. DEPTH OF FOUNDATION IS AT 1.75 M. BELOW EXISTING G.L.
2. SAFE BEARING CAPACITY OF SOIL IS AS PER SOIL TEST REPORT
3. GRADE OF CONCRETE IS M-20 AND GRADE OF STEEL IS Fe-500.
4. CLEAR COVER TO MAIN REINFORCEMENT IS AS PER BELOW :-
 - a) FOUNDATION - 75 MM
 - b) COLUMN - 40 MM
 - c) BEAM - 25 MM
 - d) SLAB - 15 MM
5. ALL SLABS MUST BE MONOLITHIC WITH SUPPORTING BEAM.
6. ALL OTHER SPECIFICATIONS AS PER NATIONAL BUILDING CODE OF INDIA

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C. OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT. TECHNO SOIL ADDRESS 154A, AJAY NAGAR, JADAVPUR, KOLKATA - 700075. THE RECOMENDATION OF SOIL TEST REPORT HAS BEEN CONSIDERED DURING STUCTURAL CALCULATION.

~~Thyssen~~ Thyssen Thyssen

MONARAYAN RA
S. J. 1122 OF C. 110

SIG. OF STRUCTURAL ENGINEER

SIG. OF STRUCTURAL ENGINEER

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Ph. No- 9831129447

SIGNATURE OF L.B.S./ARCHITECT

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as F.op. of NE @ Construction
& as Constituted Attorney of
NITYA GOPAL SAHA, JAGADISH CHANDRA DAS,
ASHUTOSH DAS, SUDHANU BHUSAN DAS,
PARITOSH CHANDRA DAS, BHABATOSH DAS,

SIGNATURE OF OWNERS

STRUCTURAL DRAWING OF A PROPOSED
G+IV STORIED RESIDENTIAL BUILDING ,
AT PREMISES NO - 146, BANDRONI PARK,
WARD NO - 113, BOROUGH NO - XI,
UNDER K.M.C.

BLOCK - I

5960

21580

FLOOR BEAM & SLAB LAYOUT PLAN (BLOCK - I)

SCALE : - 1 : 100

FLOOR BEAM & SLAB LAYOUT PLAN (BLOCK - II)

SCALE : - 1 : 100

**FOUNDATION , COLUMN &
TIE BEAM LAYOUT PLAN.**
SCALE : - 1 : 100

IDE BANSDRONI PARK ROAD