



COLUMN SCHEDULE						
COLUMN MKD.	COL. SIZE	FOUNDATION TO 6TH FLOOR	6TH FLOOR TO 12TH FLOOR	12TH FLOOR TO 18TH FLOOR	18TH FLOOR TO 24TH FLOOR	24TH FLOOR TO ROOF FLOOR
SW1, SW10, SW46	(200X1200/2000/1750/3250)	110-25T	60-25+50-20T	30-25+80-20T	15-20+95-16T	110-16T
SW2, SW9, SW30	(200X3900/3000)	52-25T	32-25+20-20T	16-25+36-20T	52-20T	32-20+20-16T
SW3, SW21, SW27, SW40, SW41, SW45, SW47	(200X1250)	22-25T	22-25T	22-25T	22-25T	22-25T
SW4, SW6	(200X1400/2500)	52-25T	32-25+20-20T	16-25+36-20T	52-20T	32-20+20-16T
SW5	(200X2300)	30-25T	15-25+15-20T	8-25+22-16T	30-16T	30-16T
SW7	(200X3250/5900)	122-25T	60-25+62-20T	30-25+92-20T	15-25+107-20T	122-20T
SW8	(200X8750/2700/2500)	60-25T+90-20T	30-25T+120-20T	150-20T	60-20T+90-16T	32-16T+20-16T
SW11, SW15, SW29, SW37	(200X3750)	52-20T	32-20+20-16T	16-20+36-16T	52-16T	32-16T+20-12T
SW12	(200X900/3500/6000)	150-20T+90-16T	75-20T+165-16T	30-20T+210-16T	240-16T	240-16T
SW13	(200X4050)	52-25T	32-25+20-20T	16-25+36-20T	52-20T	32-20+20-16T
SW16, SW20, SW48, SW44, SW51, SW42	(200X2550/2700/2750)	30-25T	15-25+15-20T	8-25+22-16T	30-16T	30-16T
SW62, SW63, SW67, SW69, SW77, SW60, SW4, SW5, SW66, SW70, SW39, SW38	(200X2450/2400)	30-25T	15-25+15-20T	8-25+22-16T	30-16T	30-16T
SW28, SW36	(200X1450/1650)	22-25T	12-25T+10-20T	20-20T	12-20T+10-16T	22-16T
SW33, SW34, SW36, SW49, SW50, SW52, SW53, SW58, SW59, SW62, SW63	(200X1850/1900/2450)	30-25T	15-25+15-20T	8-25+22-16T	30-16T	30-16T
SW31, SW52, SW55	(200X2750/1750/800)	52-25T	32-25+20-20T	16-25+36-20T	52-20T	32-20+20-16T
SW17, SW55, SW56	(200X8100/4500/1750)	110-25T	60-25+50-20T	30-25+80-20T	15-20+95-16T	110-16T
CONCRETE GRADE:-		M-40	M-40	M-40	M-40	M-40
STIRRUP-BT (AS PER BEAM COLUMN JOINTION)						

PROJECT

REVISED PLAN OF 6 NOS G+12 (39.925 M.), 2 NOS. G+18 (58.075 M.) & 5 NOS. G+28 (93.40 M) AFFORDABLE HOUSING ALONG WITH A SINGLE LAYER CENTRAL BASEMENT & PODIUM UNDER PRADHAN MANTRI AWAS YOJANA AT PRE. NO. 39/1 SHALMAR ROAD, MOUZA SHIBPUR SHEET NO. 169, 170, 179, 180, J.I. NO. 1, L.R. KHATIAN NO. 170, 9, 15, 17, L.R. DAG NO. 12, 13, 39, 40, 41, 42, 44, 45, 60, 61, 62, 63, 67, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 21, 22, 24, 1, 2, 11 P.S-SHIBPUR, WARD NO-39, BOROUGH-VI, DIST HOWRAH-711103, UNDER HOWRAH MUNICIPAL CORPORATION, WEST BENGAL, PREVIOUSLY FIRE NOC OBTAINED VIDE MEMO NO. FSR /0125186211300102 DATED 9.04.2021

TITLE:
G A & R.C DETAIL OF FOUNDATION, TYPICAL FLOOR & COLUMN, BEAM & SLAB SCHEDULE TOWER-9 (TOWER 10, 11, 12 & 13 ARE SIMILAR)

SPECIFICATION

1. 1ST CLASS CEMENT BRICK WORK IN SUPERSTRUCTURE.
2. 2ND CLASS CEMENT BRICK WALL & 100 THK. HT. BRICK WALL WITH 40MM SAND MORTAR.
3. LEAN CONC. (1:3) WITH 19MM DOWN GRADED STONE CHIPS FOR ALL P.C.C. WORKS.
4. M25 CONC. (1:1:2) FOR ALL R.C.C. WORKS.
5. 20MM & 15MM THK. PLASTER (1:5) ON EXT. & INT. BRICK WALL RESPECTIVELY & 10MM THK. PLASTER (1:3) ON CEILING.
6. 20 X 6 FLAT ORNAMENTAL GRILL WITHIN WINDOW FRAME & A 40 MM THK. MARBLE FLOORING INCLUDING SKIRTING OVER R.C.C. FLOOR SLAB.
7. SINGLE LAYER 1/3:8 FINER FERTILIZER & PLUMB.
8. HIRE & LABOUR FOR SHUTTERING & LABOUR WORKS INCLUDING STIFF TOPPS TO BE PLACED AS PER DRAWING.
9. TOR STEEL BAR FOR ALL R.C.C. WORKS INCLUDING DISTRIBUTORS & BIDDERS.
10. SANITARY & PLUMBING FITTING & FIXING COMPLETE AS PER RULE.
11. MATERIALS TO BE USED :- CEMENT- PORTLAND, SAND- MEDIUM COARSE, STONE CHIPS- 19MM. DOWN GRADED.
12. CLEAR COVER TO MAIN REIN. FOUNDATION- 50 MM., COLUMN- 40 MM., BEAM- 25 MM., SLAB- 20 MM.
13. SAL WOOD TO BE USED FOR DOOR & WINDOW FRAME & TEAK WOOD FOR SHUTTERS.

DECLARATION

I, THE ARCHITECT, CERTIFY THAT THE FOUNDATION AND THE SUPER STRUCTURE OF THE BUILDING HAVE BEEN DESIGNED BY ME THAT IT IS SAFE IN ALL RESPECT INCLUDING IN THE CONSIDERATION OF THE BEARING CAPACITY & SETTLEMENT OF SOIL.

I, THE STRUCTURAL ENGINEER, CERTIFY THAT THE FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN DESIGNED BY ME CONSIDERING ALL POSSIBLE LOADS (HORIZONTAL & VERTICAL) AS PER THE NATIONAL BUILDING CODE OF INDIA.

SIGNATURE OF ARCHITECT
BIBIK BIKASH MULLICK
ESS-39, CLASS-B
HOWRAH MUNICIPAL CORPORATION

SIGNATURE OF STRUCTURAL ENGINEER
BIBIK BIKASH MULLICK
ESS-39, CLASS-B
HOWRAH MUNICIPAL CORPORATION

DECLARATION

I, THE APPLICANT, CERTIFY THAT WHEN THE SEWER LINE WILL BE AVAILABLE, I WILL SHALL TAKE CONNECTION AT MY OWN COST & EXPENSE. I WILL TAKE ALL NECESSARY PRECAUTIONS TO PERMIT THE EXISTING SEWER LINE TO REMAIN UNOBTAINED. I WILL TAKE ALL NECESSARY PRECAUTIONS TO PERMIT THE EXISTING SEWER LINE TO REMAIN UNOBTAINED.

UNDERTAKING

1. I WILL UNDERTAKE THAT WHEN THE SEWER LINE WILL BE AVAILABLE, I WILL SHALL TAKE CONNECTION AT MY OWN COST & EXPENSE.
2. NO BUILDING MATERIALS WILL BE STACKED / DEPOSITED ON ROAD OVERNIGHT.
3. I WILL ARRANGE FOR RAINING & MAINTENANCE OF TREE AS SHOWN IN THE DRAWING AT MY OWN COST.

STRUCTURAL CONSULTANT:
P.M. CONSULTANT
STRUCTURAL ENGINEERING CONSULTANT
3A, SIDDHESWARI ROAD, KOLKATA - 700029.
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WEB: <http://pmstructure.wixsite.com/pmcon>
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TYPICAL FLOOR BEAM SCHEDULE:-					
BEAM MKD.	BEAM SIZE	SUPPORT REINFORCEMENT		SPAN REINFORCEMENT	
		TOP	BOTTOM	TOP	BOTTOM
BY-1	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-2	200X500	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-3	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-4	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-5	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-6	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-7	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-8	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-9	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-10A	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-10	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-11	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-12	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-13	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-14	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-15	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-16	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-17	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-18	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-19	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-20	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-21	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
FRP-1	200X750	3-25T+ 3-25T	3-25T	2L-8T@115 C/C	3-25T+ 3-25T
FRP-2	200X750	3-25T+ 3-25T	3-25T	2L-8T@115 C/C	2-25T 3-25T

TYPICAL FLOOR BEAM SCHEDULE:-					
BEAM MKD.	BEAM SIZE	SUPPORT REINFORCEMENT		SPAN REINFORCEMENT	
		TOP	BOTTOM	TOP	BOTTOM
BY-1	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-2	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-3	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-4	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-5	200X500	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-6	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-7	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-8	200X500	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-9	200X500	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-10	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-11	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-12	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-13	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-14	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-15	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-16	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-17	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-18	200X400	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T
BY-19	200X500	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	3-20T+ 3-16T
BY-20	200X600	3-20T+ 3-16T	3-20T	2L-8T@115 C/C	2-20T 3-16T

SLAB THK.	SHORTER SPAN						LONGER SPAN					
	SUPPORT	TOP	MID SPAN	BOTTOM	SUPPORT	TOP	MID SPAN	BOTTOM	SUPPORT	TOP	MID SPAN	BOTTOM
100	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 200 C/C
115	8 T @ 150 C/C	8 T @ 175 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 175 C/C	8 T @ 150 C/C	8 T @ 200 C/C	8 T @ 150 C/C	8 T @ 175 C/C	8 T @ 150 C/C	8 T @ 200 C/C
150	10 T @ 150 C/C	10 T @ 200 C/C	10 T @ 150 C/C	10 T @ 200 C/C	10 T @ 150 C/C	10 T @ 200 C/C	10 T @ 200 C/C	10 T @ 150 C/C	10 T @ 200 C/C	10 T @ 150 C/C	10 T @ 200 C/C	10 T @ 200 C/C

DETAILS OF 7500 VERTICAL CAST IN SITU BORING PILE (PTI) (D.M.C.) CAPACITY: 210T SLUMP (BENTONITE)

SECTION 1-1
SECTION 2-2

PARTY'S COPY

Structural plan and design calculation submitted by the structural engineer have been kept with E.P. No. 144/21-22 Date 3/18/23 for record of the Howrah 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.

[Signature]
Assistant Engineer
Building Department
Howrah Municipal Corporation

APPROVED AS PER ORDER OF COMMISSIONER 3/18/23

PLACED IN MUNICIPAL BUILDING COMMITTEE DATED 15/9/23