

COLUMN MKD.	FOOTING SIZE(LXB)	PEDESTAL SIZE	REINFORCEMENT	
			SHORT SPAN	LONG SPAN
COL- A5, A6, B4, C3, D1, E6, F1, G6, H1, I6, J1, K6, L1, M6, N5, O4, P1, P2	2100 X 2100	400X550X600	12 @ 110mm C/C	12 @ 110mm C/C
COL- E4, E5, F3, G5, H3, H4, I5, J2, J4, K5, L2, L4	2600 X 2600	400X600X600	12 @ 100mm C/C	12 @ 100mm C/C

COLUMN MKD.	REINFORCEMENT			
	GROUND & FIRST FLOOR	SECOND / THIRD FLOOR	LONG BAR	STIRRUPS
COL- A5, A6, B4, C3, D1, E6, F1, G6, H1, I6, J1, K6, L1, M6, N5, O4, P1, P2	250 X 400	250 X 350	4-16 @	2L-8 @ 150 C/C
COL- E4, E5, F3, G5, H3, H4, I5, J2, J4, K5, L2, L4	250 X 400	250 X 400	4-16 @	2L-8 @ 150 C/C

STRUCTURAL DETAILS FOR THE PROPOSED G + III STORED RESIDENTIAL CUM COMMERCIAL BUILDING OF SMT. MAMATA MAITRA SITUATED AT MOUZA - BANAMALPUR, J.L. NO. 80, RE. SA. NO. 226, R. S. DAG NO. 717, L. R. DAG NO. 3353, SABEK KHATIAN NO. 50, R. S. KHATIAN NO. 459, 464, 469, 474, L.R. KHATIAN NO. 2692, HOLDING NO. 11, TAKI ROAD (NORTH) IN WARD NO. 16 UNDER P. S. AND MUNICIPALITY BARASAT, DISTT. NORTH 24 PARGANAS

NOTES

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE MENTIONED.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.
- FOR DETAILS BELOW FINISH LEVEL REFER STRUCTURAL DRAWING.
- DEPTH OF FOUNDATION OF SEPTIC TANK & SINK UNDER GROUND WATER RESERVOIR SHOULD NOT EXCEED THE DEPTH OF FOUNDATION OF THE BUILDING.
- ALL WALLS ARE CONSTRUCTED WITH 1:4 CEMENT SAND MORTAR.
- GRADE OF STEEL USED IS Fe 415 TMT BAR AND GRADE OF CONCRETE IS M 20 FOR BASEMENT WORK AND M30 FOR OTHERS.
- PLAIN CEMENT CONCRETE WITH BRICK PANDA IN 1:1.6 RATIO IS USED.
- 1:6 CEMENT SAND PLASTER IS USED FOR BRICK WORKS.
- CLEAR COVER TO BE MAINTAINED FOR:
 - 1. FOUNDATION: 50mm
 - 2. COLUMN: 40mm
 - 3. BEAM: 25mm
 - 4. SLAB: 15mm
- LAP LENGTH TO BE CONSIDERED:
 - M20 GRADE OF CONCRETE:
 - 6: 30D
 - 8: 30D
 - 10: 47D
 - 12: 57D
 - 16: 71D
- THIS DRAWING IS THE SOLE PROPERTY OF THE CONSULTANT & NO COPY OF IT SHOULD BE MADE WITHOUT THE WRITTEN PERMISSION FROM THE CONSULTANT.

DECLARATION OF OWNER/S

I WOULD DECLARE THAT I HAVE GONE THROUGH THE BUILDING BEHALFS FOR BARASAT MUNICIPALITY AND ALSO UNDERTAKE TO ABIDE BY THOSE RULES DURING AND AFTER CONSTRUCTION OF THE BUILDING AND ALSO DECLARE THAT I SHALL NOT ON ANY DATE MAKE ANY ALTERATION TO THIS PLAN.

DECLARATION OF STRUCTURAL ENGINEER

CERTIFIED THAT THE STRUCTURAL DESIGN AND DRAWINGS OF FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN ON CONSIDERING THE ALL POSSIBLE LOADS INCLUDING SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE AND OTHER IS CODE OF PRACTICE AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

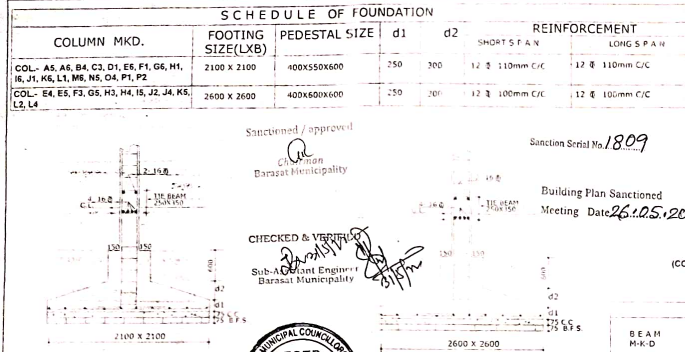
SIGNATURE OF OWNER/S

Sanjay Basu
Shyamal Kanti Saha

SIGNATURE OF ENGINEER

Sanjay Basu
B.E.(Civil), M.E., F.I.V
Chartered Engineer & Valuer
L.B.S.-I & Structural Engineer-I, K.M.C.

REF NO. 488/LS/STR/2022 OF 25.04.2022



ISOLATED COLUMN FOOTING
(COL- A5, A6, B4, C3, D1, E6, F1, G6, H1, I6, J1, K6, L1, M6, N5, O4, P1, P2)

ISOLATED COLUMN FOOTING
(COL- E4, E5, F3, G5, H3, H4, I5, J2, J4, K5, L2, L4)

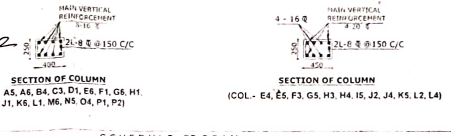
Sanctioned / approved
Barasat Municipality

Sanction Serial No. / 809

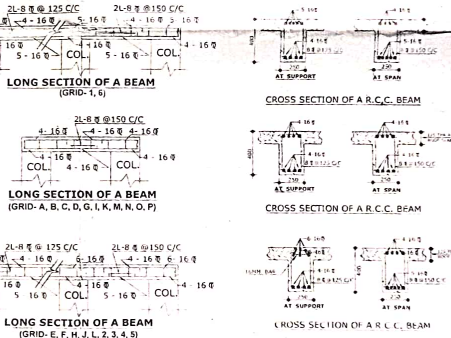
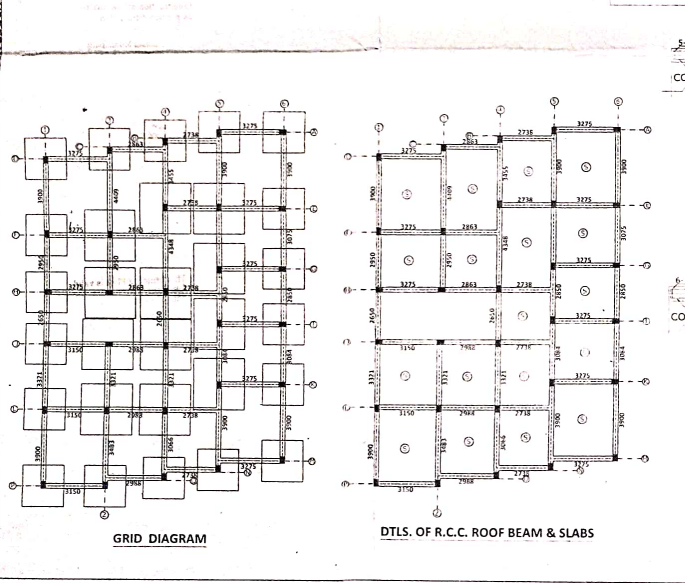
Building Plan Sanctioned
Meeting Date: 26.05.2022

CHECKED & VERIFIED
Sub-Engineer
Barasat Municipality

ESTD 1869
MUNICIPALITY OF BARASAT (IN 24 PARGANAS)



BEAM MKD.	BEAM SIZE	SUPPORT				SPAN		MID SUPPORT		SHEAR REINFORCEMENT	
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPAN	
GRID-1,6	250X400	5-16 @	4-16 @	4-16 @	5-16 @	5-16 @	4-16 @	4-16 @	2L-8 @ 125 C/C	2L-8 @ 150 C/C	
GRID-A, B, C, D, G, I, K, M, N, O, P	250X400	4-16 @	4-16 @	4-16 @	4-16 @	4-16 @	4-16 @	4-16 @	2L-8 @ 125 C/C	2L-8 @ 150 C/C	
GRID-E, F, H, J, L, 2, 3, 4, 5	250X400	6-16 @	4-16 @	4-16 @	4-16 @	5-16 @	6-16 @	4-16 @	2L-8 @ 125 C/C	2L-8 @ 150 C/C	



SCHEDULE OF SLAB	
THICKNESS OF SLAB	125 mm
PROVIDE, 8 mm DIA BARS @ 100 mm C/C IN SHORT SPAN AND PROVIDE, 8 mm DIA BARS @ 125 mm C/C IN LONG SPAN	
USE, SHORT PIECES 10 mm DIA BARS OVER TOP LAYER OF DISCONTINUOUS SUPPORT TO MATCH THE SPACING AT PER WITH SPAN REINFORCEMENT	

SCHEDULE OF STAIR	
THICKNESS OF LANDING SLAB	125 mm
THICKNESS OF WAIST SLAB	125 mm
PROVIDE 12 mm DIA BARS @ 125 mm C/C AS MAIN REINFORCEMENT USE, 10 mm DIA BARS @ 150 mm C/C AS DISTRIBUTION BARS.	

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