



GROUND FLOOR BEAM LAYOUT

SCALE - 1/100

(SLAB THICKNESS = 150mm)
(T.O.S. = +0.45 m)
(UNLESS NOTED)

DISTRIBUTION - Y8@250/C FOR 150mm SLAB.

LEGEND OF BEAM REINFORCEMENT (GROUND FLOOR)

BEAM MARK.	BEAM SIZE	BEAM TYPE	TOP REINFORCEMENT				BOTTOM R/F		STRPS				
			T1	T2	LEFT SIDE T3	RIGHT SIDE T4	B1	B2	DIA	MARK			
B1	300	650	8	4-16	-	-	-	-	5-16	-	8-2L	D	
B2	300	650	8	4-16	-	1-16	-	1-16	-	4-16	-	8-2L	D
B3	300	650	10	4-16	-	1-20	-	1-20	-	4-16	-	8-2L	D
B4	300	650	6	4-16	-	-	-	-	4-16	-	8-2L	D	
B5	300	650	8	4-16	-	1-16	-	1-16	-	5-16	-	8-2L	D
B6	250	500	1	2-12	-	-	-	-	3-16	2-16	8-2L	B	
B7	250	500	9	2-16	-	1-16	-	-	3-16	-	8-2L	B	
B8	250	500	11	2-16	-	1-16	-	1-16	-	3-16	-	8-2L	B
B9	300	650	10	2-16	-	2-20	2-20	2-20	4-16	-	8-2L	F	
B10	300	650	10	2-16	-	2-20	2-20	2-20	4-16	-	8-2L	F	
B11	300	650	8	2-16	-	2-20	3-20	2-20	4-16	1-16	8-2L	F	
B12	300	650	6	3-16	-	2-16	3-16	2-16	5-16	-	8-2L	D	
B13	300	650	6	3-16	-	2-20	2-16	2-20	5-16	-	8-2L	F	
B14	300	650	6	3-16	-	2-20	1-16	2-20	5-16	-	8-2L	F	
B15	300	650	10	2-16	-	-	2-16	-	4-16	-	8-2L	F	
B16	300	650	5	2-16	-	-	2-16	-	3-16	-	8-2L	F	
B17	300	650	8	3-16	-	2-20	2-16	2-20	5-16	-	8-2L	F	
B18	300	650	6	2-16	-	2-20	3-20	2-20	5-16	-	8-2L	F	
B19	300	650	5	2-16	-	-	3-16	-	4-16	-	8-2L	F	
B20	300	650	4	2-16	-	2-20	2-16	-	3-16	-	8-2L	F	
B21	250	500	1	2-12	-	-	-	-	3-16	-	8-2L	F	
B22	300	650	7	3-16	-	2-20	2-16	-	5-16	2-16	8-2L	F	
B23	300	650	8	2-16	-	-	2-20	-	3-16	-	8-2L	F	
B24	300	650	6	2-16	-	-	2-20	-	3-16	-	8-2L	F	
B25	250	500	7	2-16	-	-	2-20	-	3-16	-	8-2L	B	
B26	300	650	6	2-16	-	-	3-16	-	3-16	-	8-2L	F	
B27	300	650	6	2-16	-	-	3-16	-	4-16	-	8-2L	F	
B28	300	650	6	2-16	-	4-20	3-20	4-20	3-20	2-16+	10-2L	G	
B29	300	650	10	3-16	-	3-20	2-20	3-20	5-20	-	8-2L	F	
B30	300	650	5	2-16	-	2-16	3-20	-	4-16	-	8-2L	F	
B31	300	650	6	2-16	-	-	2-16	-	3-16	-	8-2L	F	
B32	300	650	8	2-16	-	2-20	1-16	2-20	4-16	-	8-2L	F	
B33	300	650	10	2-16	-	-	3-20	-	3-16	2-16	8-2L	F	
B34	300	650	6	2-16	-	3-20	2-20+	3-20	4-16	3-16	10-2L	G	
B35	300	650	10	3-16	-	2-20+	2-20+	2-20	5-16	-	10-2L	E	
B36	300	650	7	2-16	-	-	3-20	-	4-16	-	8-2L	F	
B37	300	650	2	2-16	-	-	2-20	3-20	5-16	-	8-2L	F	
B38	300	650	8	2-16	-	3-20	3-20	3-20	5-16	2-16	8-2L	F	
B39	300	650	6	2-16	-	3-20	3-20	3-20	4-16	2-16	8-2L	F	
B40	300	650	4	2-16	-	2-16	2-20	-	4-16	-	8-2L	F	
B41	200	450	1	2-12	-	-	-	-	2-16	-	8-2L	E	

SLAB MARKING AND SLAB REINFORCEMENT SCHEDULE (GROUND FLOOR)

SLAB MARK.	PANEL TYPE	TOP REINFORCEMENT				BOTTOM REINFORCEMENT	
		A	B	C	D	E	F
S1	2	Y8@150C/C	Y8@125C/C	Y8@100C/C	Y8@100C/C	Y8@200C/C	Y8@150C/C
S2	1	Y8@125C/C	Y8@125C/C	Y8@100C/C	Y8@100C/C	Y8@200C/C	Y8@150C/C
S3	3	Y8@125C/C	Y8@125C/C	Y8@150C/C	Y8@100C/C	Y8@200C/C	Y8@125C/C
S4	4	Y8@150C/C	Y8@125C/C	Y8@150C/C	Y8@100C/C	Y8@150C/C	Y8@125C/C
S5	1	Y8@150C/C	Y8@150C/C	Y8@150C/C	Y8@150C/C	Y8@200C/C	Y8@200C/C
S6	6	Y8@150C/C	Y8@150C/C	Y8@150C/C	Y8@150C/C	Y8@200C/C	Y8@225C/C
S7	9	Y8@100C/C	Y8@100C/C	Y8@100C/C	Y8@100C/C	Y8@125C/C	Y8@125C/C

CHECKED AND VETTED

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SPECIAL NOTES:

- CAMBER AT FREE END OF CANTILEVERS SHALL BE PROVIDED AS UNDER:
10mm - UP TO 1.5m;
15mm - FROM 1.5m TO 2.0m;
20mm - FROM 2.0m TO 2.5m.
- ALL BEAMS SPANNING GREATER THAN 4.0m FROM GROUND FLOOR TO ROOF SHOULD BE CAST WITH A PRE-CAMBER OF 12mm IN EACH BAY.
- THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 200MM THICK AAC BLOCKS IN EXTERNAL WALLS & 125MM THICK AAC BLOCKS IN INTERNAL WALLS.

- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED.
- ANY AMBIGUITY IN THE DRAWINGS SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ENGINEER BEFORE COMMENCING.
- SUPER STRUCTURE - SUPER STRUCTURE SHALL BE OF 200 MM THK. AAC BLOCK OF WEIGHT < 10 KN/CUM FOR EXTERNAL WALL. 125 MM THK THK. AAC BLOCK OF WEIGHT < 10 KN/CUM FOR INTERNAL WALL.
- THIS DRAWING IS TO BE READ ALONG WITH ALL RELEVANT ARCHITECTURAL DRAWINGS.
- ALL GRADE OF CONCRETE M25 (APPROVED DESIGN MIX)
- ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.
- FOR STEEL GRADE Fe 500 AS PER IS 1786-2008. AND REFER FOR GENERAL DETAIL OF REINFORCEMENT & CONCRETE - PERMIT DRAWING No.-PER/DRE-RES./STR/01
- ALL DISTRIBUTION BARS ARE Y-8 @ 250 C/C TO BE PROVIDED FOR 120 MM SLAB
- ALL CHAIRS ARE Y-10 AND TO BE PROVIDED WHEREVER REQUIRED.
- ALL SPACER BARS ARE Y-25 @ 300 C/C AND TO BE PROVIDED
- LAPS, SPLICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS SMALLER DIR OF BAR.
- FLOORING : 40MM THICK I.P.S FLOORING.
- MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:
MEMBER TOP BOTTOM SIDE
a. FOUNDATION BEAM & SLAB 50 50 50
b. COLUMN 40 40 40
c. FLOOR BEAM 30 30 30
d. TIE BEAM 30 30 30
e. FLOOR SLAB 20 20 20
- ROOF SLAB THICKNESS 150 MM UNLESS NOTED
- FOUNDATION AND COLUMN HAS BEEN DESIGNED FOR BASEMENT + GROUND + EIGHT STOREYED BUILDING
- NET ALLOWABLE BEARING CAPACITY OF SOIL AS PER SOIL REPORT AND N.I.T. REPORT FOR GROUND IMPROVEMENT USING SAND BED OF 2.5 M DEPTH AND 1m EQUAL PROJECTION FROM ALL SIDE OF RAFT. CONSIDERED FOR DESIGN CALCULATION = 131.00 T/SOM.
- DEPTH OF EXCAVATION BELOW EXISTING GL SHALL BE TO A STRATUM OF ADEQUATE SAFE BEARING CAPACITY, OR (4.55+2.5) m WHICHEVER IS MORE.

PROJECT:

PROPOSED PLAN FOR B+G+8 RESIDENTIAL BUILDING FOR BIMAN MONDAL OVER LAYOUT PLOT NO.: 38 KHATIAN NO.-(168,171); OF MOUZA- (SANKARPUR); J.L.NO-109(L,R); P.S: N.T.S.P.S., DIST - PASCHIM BARDHAMAN.

TITLE

GROUND FLOOR BEAM & SLAB LAYOUT WITH REINFORCEMENT DETAILS

DURGAPUR REAL ESTATE PVT. LTD.
Sushant Kumar Datta
Director

DEVELOPERS

DURGAPUR REAL ESTATE PVT. LTD.

LAND OWNER

Biman Mondal

BIMAN MONDAL

Jui Chatterjee
JUI CHATTERJEE
Lic.No.DMC/BPD - 25
1/18 Ramkrishna Road, Durgapur - 713209
JUI CHATTERJEE
(LICENSE NO - DMC/BPD/25)
ANIRBAN BHATTACHARYA
BARCH.
ARCHITECT'S SIGNATURE CA/2014/62790

Approved Plan No. 23
No. 23/2022-21 Date 08/02/2021
Valid upto 23/09/2023

ALOK ROY
Empanelled Geotechnical Engineer
Kolkata Municipal Corporation
Class-4, No. - G.7/11
54, Jharia Park,
Kolkata-700 084
mukherjee
Pradha
Jemua Gram Panchayat

SIGNATURE OF GEOTECHNICAL ENGINEER

ALOK ROY, KM NO.- 1/11, KOLATA-700084.

STRUCTURAL CERTIFIED THAT THE FOUNDATIONS, SUPERSTRUCTURE AND ALL MEMBERS OF THE FRAMEWORK HAS BEEN SO DESIGNED BY ME AS TO BE SAFE AND SOUND IN ALL RESPECTS, INCLUDING CONSIDERATION FOR BEARING CAPACITY AND SETTLEMENT OF SOIL.

LALTU DEY
B.E.(CIVIL), M.I.E.
Chartered Engineer (India)
Licence No.-DMC/BPD/144
Durgapur Municipal Corporation

SIGNATURE OF STRUCTURAL ENGINEER

LALTU DEY
B.E.(CIVIL), M.I.E. CHARTERED ENGINEER.
DMC NO.- DMC/BPD/144
DURGAPUR-713216.

DATE - 09.07.2021 REV - 2 DRAWN BY - RANA
PERMIT DRAWING No.-PER/DRE-RES./STR/7 SHEET NO. - 7