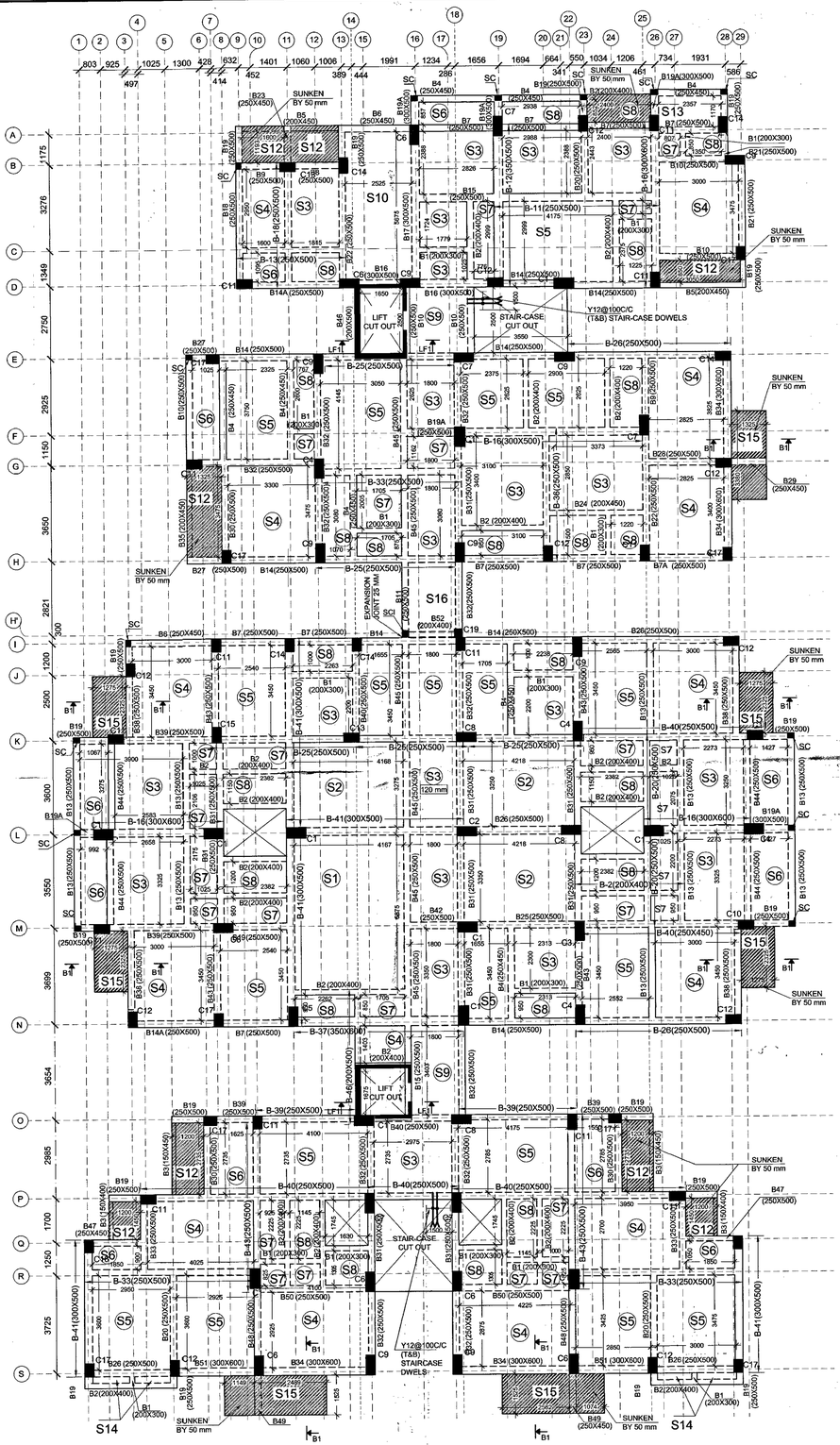

FIRST FLOOR BEAM & SLAB LAYOUT

SCALE - 1:100

(SLAB THICKNESS = 120mm) (T.O.S. = +9.075 m) (UNLESS NOTED)

S15	150MM

DISTRIBUTION - Y8@275C/C

LEGEND OF BEAM REINFORCEMENT.(1ST FLOOR SLAB)

BEAM MARK.	BEAM SIZE		BEAM TYPE	TOP REINFORCEMENT						BOTTOM R/F		STRPS	
						LEFT SIDE		RIGHT SIDE					
	B	D		T1	T2	T3	T4	T3	T4	B1	B2	DIA	MARK
B1	200	300	1	2-12	-	-	-	-	-	2-16	-	8-2L	D
B2	200	400	1	2-12	-	-	-	-	-	2-16	-	8-2L	C
B3	150	450	1	2-12	-	-	-	-	-	2-16	-	8-2L	D
B4	250	450	1	2-12	-	-	-	-	-	3-16	-	8-2L	A
B5	200	450	1	2-16	-	-	-	-	-	2-16	-	8-2L	D
B6	250	450	2	2-16	-	-	1-16		2-16	2-16	1-20	8-2L	A
B7	250	500	6	2-16	-	2-16	1-16	2-16	1-16	3-16	-	8-2L	A
B7A	250	500	8	2-16	-	2-16	1-16	2-16	2-20	2-16	1-16	8-2L	A
B8	250	500	3	2-16	-	2-16	1-16	2-16	1-20	3-16	-	8-2L	D
B9	250	500	4	2-16	-	2-16	1-20	-	-	2-16	-	8-2L	D
B10	250	500	5	2-16	-	2-16	1-16	-	-	2-16	-	8-2L	A
B11	250	500	9	2-16	-		1-20	-	-	2-16	1-16	8-2L	A
B12	350	500	8	2-20	-	3-20	2-20	3-20	3-20	4-16	3-16	8-2L	B
B13	250	500	1	2-16	-	-	-	-	-	2-16	-	8-2L	A
B14	250	500	6	2-16	-	2-20	1-16	2-20	1-16	2-16	1-16	8-2L	A
B14A	250	500	8	2-16	-	2-20	1-20	2-20	1-16	2-16	1-16	8-2L	B
B15	250	500	9	2-16	-	1-20	-	-	-	2-16	-	8-2L	A
B16	300	600	8	2-20	-	3-20	2-20	3-20	2-20	4-16	-	8-2L	B
B17	300	600	6	2-20	-	2-20	2-16	3-20	2-20	4-16	-	8-2L	B
B18	250	500	7	2-16	-	2-20	1-20	-	-	2-16	1-16	8-2L	B
B19	250	500	4	2-16	-	2-20	1-20	-	-	2-16	-	8-2L	D
B19A	300	500	4	2-20	-		3-20	-	-	2-16	-	8-2L	D
B20	250	500	7	2-16	-	3-20	1-20	-	-	3-16	-	8-2L	A
B21	250	500	8	2-16	-	2-20	1-20	2-20	1-20	2-16	-	8-2L	D
B22	250	500	3	2-16	-	3-20	1-16	2-20	1-20	3-16	-	8-2L	A
B23	250	450	4	2-16	-	2-20	1-20	-	-	2-16	-	8-2L	D
B24	200	450	1	2-12	-	-	-	-	-	2-16	1-16	8-2L	A
B25	250	500	6	2-16	-	3-20	1-20	3-20	1-20	3-16	-	8-2L	B
B26	250	500	8	2-16	-	2-20	1-20	2-20	1-20	2-16	1-16	8-2L	B
B27	250	500	4	2-16	-	2-20	1-16	-	-	2-16	-	8-2L	D
B28	250	500	7	2-16	-	2-16	1-16	-	-	2-16	-	8-2L	B
B29	250	450	4	2-16	-	2-16	1-16	-	-	2-16	-	8-2L	D
B30	250	500	5	2-16	-	3-16	1-20	-	-	2-16	1-16	8-2L	A
B31	250	500	6	2-20	-	3-20	1-20	3-20	1-20	2-20	2-20	8-2L	B
B32	250	500	10	2-20	-	2-20	1-20	3-20	1-20	2-16	2-20	8-2L	A
B33	250	500	5	2-16	-	3-20	1-16	-	-	3-16	1-20	8-2L	B
B34	300	600	8	2-16	-	2-20	2-20	2-20	2-20	4-20	1-20	8-2L	D
B35	200	450	7	2-16	-	2-16	-	-	-	2-16	-	8-2L	C
B36	250	500	5	2-16	-	3-20	1-25	-	-	3-16	-	8-2L	B
B37	350	600	6	2-16	-	3-20	3-20	3-20	3-20	3-16	2-16	8-2L	B
B38	250	500	5	2-16	-	3-20	1-20	-	-	5-16	-	8-2L	D
B39	250	500	6	2-16	-	2-20	1-20	2-20	1-20	2-16	1-20	8-2L	B
B40	250	500	6	2-16	-	3-20	1-20	3-20	1-20	3-16	2-16	8-2L	B
B41	300	500	8	2-16	-	3-20	1-25	3-20	1-25	3-16	2-16	8-2L	B
B42	250	500	4	2-20	-	3-20	1-20	-	-	4-16	-	8-2L	D
B43	250	500	8	2-20	-	2-25	2-20	3-20	1-20	2-20	2-20	8-2L	B
B44	250	500	8	2-16	-	3-16	1-16	3-16	1-16	3-16	2-16	8-2L	A
B45	250	500	11	2-16	-		1-16		1-16	2-16	-	8-2L	A
B46	200	500	8	3-20	-	-	-	-	-	2-16	-	8-2L	E
B47	250	500	4	3-16	-		3-20	-	-	3-16	-	8-2L	D
B48	250	500	6	2-20	-	3-20	1-20	2-20	2-25	2-20	1-16	8-2L	A
B49	250	450	4	2-20	-	1-20	-	-	-	2-20	-	8-2L	D
B50	250	500	10	2-16	-	3-20	1-16	3-20	1-16	3-16	-	8-2L	A
B51	300	600	6	2-16	-	2-20	2-20	2-20	2-20	4-20	1-20	8-2L	D
B52	200	400	10	2-16	-	-	-	-	-	2-16	-	8-2L	D
LB1	250		10	2-16	-	3-16	1-16	3-16	1-16	3-16	2-16	8-2L	A

SLAB MARKING AND SLAB REINFORCEMENT SCHEDULE

SLAB MARK.	PANEL TYPE	TOP REINFORCEMENT				BOTTOM REINFORCEMENT	
		A	B	C	D	E	F
S1	1	Y8@175C/C	Y8@175C/C	Y8@125C/C	Y8@125C/C	Y8@225C/C	Y8@125C/C
S2	1	Y8@175C/C	Y8@175C/C	Y8@175C/C	Y8@175C/C	Y8@225C/C	Y8@225C/C
S3	1	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@225C/C	Y8@225C/C
S4	4	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@225C/C	Y8@225C/C
S5	2	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@225C/C	Y8@225C/C
S6	4	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@225C/C	Y8@250C/C
S7	1	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S8	3	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S9	6	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S10	5	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@200C/C
S11	3	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@225C/C	Y8@200C/C
S12	9	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S13	4	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S14	7	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@225C/C
S16	8	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@200C/C	Y8@250C/C	Y8@200C/C

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED.
2. ANY AMBIGUITY IN THE DRAWINGS SHOULD BE IMMIDIATELY BROUGHT TO THE NOTICE OF THE ENGINEER BEFORE COMMENCING.
3. SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 200 MM THK. A.A.C BLOCK OF WEIGHT< 10 KN/CUM FOR EXTERNAL WALL. 125 MM THICH THK. A.A.C BLOCK OF WEIGHT< 10 KN/CUM FOR INTERNAL WALL
4. THIS DRAWING IS TO BE READ ALONG WITH ALL RELEVANT ARCHITECTURAL DRAWINGS.
5. ALL GRADE OF CONCRETE M25 (APPROVED DESIGN MIX)
6. ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.
7. FOR STEEL GRADE Fe 500 AS PER I.S 1786-2008. AND REFER FOR GENERAL DETAIL OF REINFORCEMENT & CONCRETE - PERMIT DRAWING No.-PER/DRE-RES./STR/01
8. ALL DISTRIBUTION BARS ARE Y-8 @ 250 C/C TO BE PROVIDED FOR 120 MM SLAB
9. ALL CHAIRS ARE Y-10 AND TO BE PROVIDED WHEREVER REQUIRED.
10. ALL SPACER BARS ARE Y-25 @ 300 C/C AND TO BE PROVIDED
11. LAPS, SPLICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS SMALLER DIR OF BAR.
12. FLOORING : 40MM THICK I.P.S FLOORING.
13. 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

14. ROOF SLAB THICKNESS 120 MM UNLESS NOTED
15. FOUNDATION AND COLUMN HAS BEEN DESIGNED FOR BASEMENT + GROUND + EIGHT STOREYED BUILDING
16. 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/SQM.
17. 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:-(168,1711); OF MOUZA:- (SANKARPUR); J.L.NO:-109(L.R); P.S: N.T.S.P.S, DIST - PASCHIM BARDHAMAN.

TITLE

FIRST FLOOR BEAM & SLAB LAYOUT WITH REINFORCEMENT DETAILS

DURGAPUR REAL ESTATE PVT. LTD.

Director

DEVELOPERS

DURGAPUR REAL ESTATE PVT. LTD.

LAND OWNER

BIMAN MONDAL

JUI CHATTERJEE
Lic.No.DMC/BPD - 25
1/1B Ramanujam Road, Durgapur - 5
JUI CHATTERJEE/9434649399
LICENSE NO - DMC/BPD(25)
ARCHITECT'S SIGNATURE

ANIRBAN BHATTACHARYA
B.ARCH.
CA/2014/62790

SPECIAL NOTES:
1. CAMBER AT FREE END OF CANTILEVERS SHALL BE PROVIDED AS UNDER:
10mm - UP TO 1.50m.
15mm. - FROM 1.50m. TO 2.00m.
2. ALL BEAMS SPANNING GREATER THAN 4.0 M FROM GROUND FLOOR TO ROOF SHOULD BE CAST WITH A PRECAMBER OF 12 MM IN EACH BAY
3. THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 200MM THICK AAC BLOCKS IN EXTERNAL WALLS & 125 MM THICK AAC BLOCKS IN INTERNAL WALLS

Approved Plan No. 23 ...on Meeting No. 12/2020-21 Date 08/02/2021
Valid upto 29/09/2023

ALOK ROY
Empanelled Geotechnical Engineer
Kolkata Municipal Corporation
Class-I, Reg.- G.T/11
6A, Milan Park,
Kolkata-700 084

Mallika Sarkar
Prodhan
Jemua Gram Panchayat

SIGNATURE OF GEOTECHNICAL ENGINEER

ALOCK 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.

12/07/2021

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.

CHECKED AND VETTED

Dr. Supriya Pal
Associate Professor
Department of Civil Engineering
National Institute of Technology Durgapur
Durgapur - 713209, W.B., India

DR. PRADIP ROY
Assistant Professor
Department of Civil Engineering
National Institute of Technology Durgapur
Durgapur - 713209, W.B., India

DATE - 09.07.2021	REV -2	DRAWN BY-	RANA
PERMIT DRAWING No.-PER/DRE-RES./STR/8		SHEET NO. - 8	