

BLOCK-1

GR. ROOF BEAM LAYOUT PLAN.

SCHEDULE OF BEAM FOR BLOCK 1 & 2.

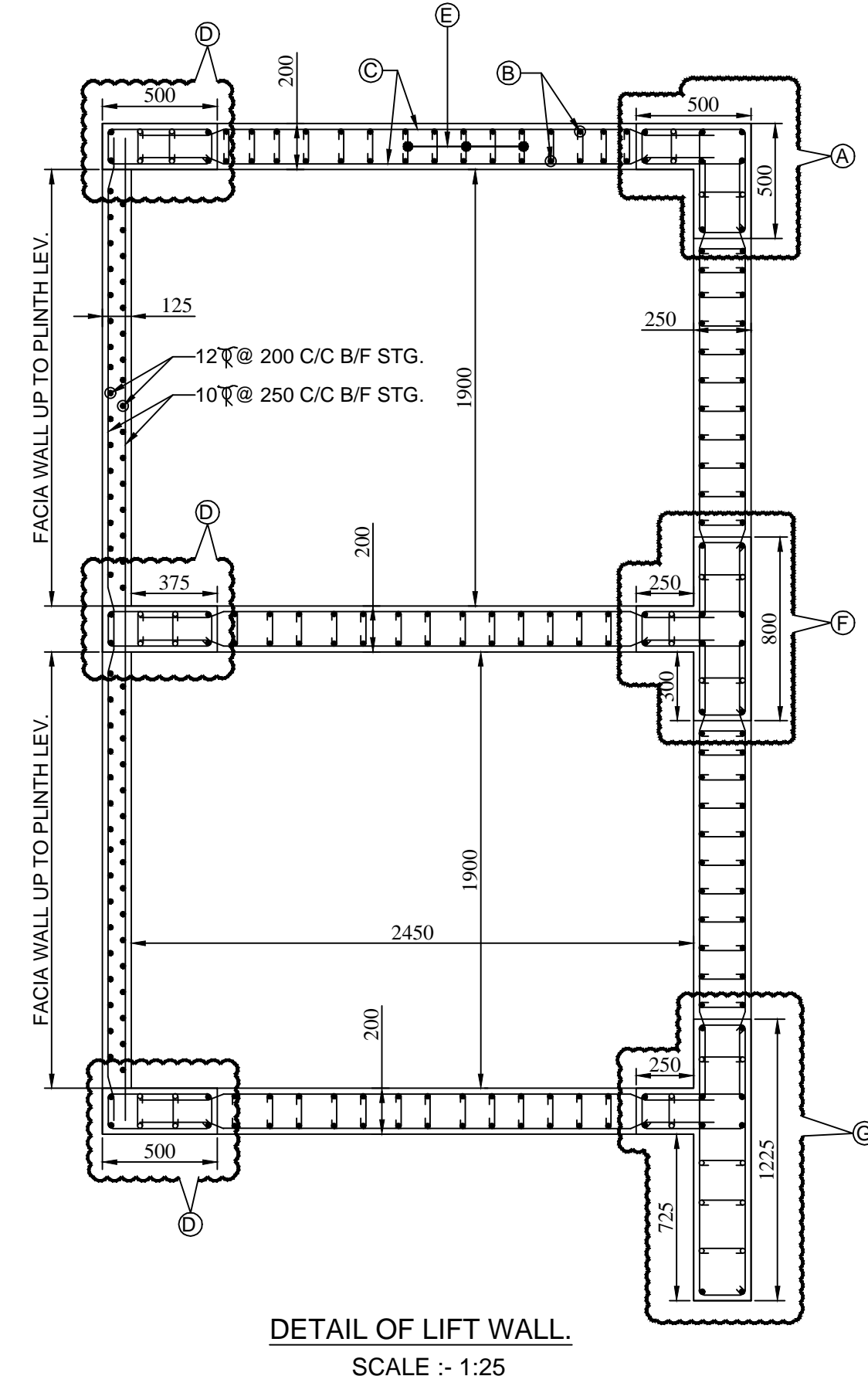
BEAM MKD.	BEAM SIZE	REINFORCEMENT				STIRRUPS	SIDE FACE
		SPAN		SUPPORT			
		TOP	BOTT.	TOP	BOTT.		
B1	250X500	2-20 ALTH.	2-20 ALTH. +2-16 EXT.	2-20 ALTH. +2-25 EXT.	2-20 ALTH.	2L-8# @ 100 C/C TO 250 C.C.	---
B2	250X500	2-20 ALTH.	2-25 ALTH.	2-20 ALTH. +2-25 EXT.	2-25 ALTH.	2L-8# @ 150 C.C.	---
B3	250X350	2-16 ALTH.	2-16 ALTH. +2-20 EXT.	2-16 ALTH.	2-16 ALTH.	2L-8# @ 250 C.C.	---
B4	250X400	2-16 ALTH.	2-16 ALTH. +2-16 EXT.	2-16 ALTH. +2-20 EXT.	2-16 ALTH.	2L-8# @ 250 C.C.	---
B5	250X500	2-25 ALTH.	2-25 ALTH. +2-16 EXT.	2-25 ALTH. +2-20 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
B6	250X500	2-20 ALTH.	2-20 ALTH. +2-16 EXT.	2-20 ALTH. +2-16 EXT.	2-20 ALTH.	2L-8# @ 100 C/C TO 250 C.C.	---
B7	250X500	2-20 ALTH.	2-20 ALTH. +2-20 EXT.	2-20 ALTH. +2-20 EXT.	2-20 ALTH.	2L-8# @ 100 C/C TO 250 C.C.	---
B8	250X450	2-20 ALTH.	2-25 ALTH. +2-25 EXT.	2-20 ALTH.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
B9	300X500	3-20 ALTH.	3-20 ALTH.	3-25 ALTH.	3-25 ALTH.	2L-8# @ 150 C.C.	---
B10	250X500	3-20 ALTH.	2-20 ALTH.	3-25 ALTH.	2-20 ALTH.	2L-8# @ 200 C.C.	---
B11	250X500	3-20 ALTH.	3-20 ALTH.	3-20 ALTH.	3-20 ALTH.	2L-8# @ 200 C.C.	---
DB1	300X750	2-25 ALTH.	2-25 ALTH. +2-20 EXT.	2-25 ALTH. +2-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 250 C.C.	---
DB2	300X600	3-25 ALTH.	3-25 ALTH. +2-25 EXT.	3-25 ALTH.	3-25 ALTH.	2L-8# @ 100 C/C TO 250 C.C.	---
DB3	300X750	2-25 ALTH.	2-25 ALTH. +3-25 EXT.	2-25 ALTH. +4-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
DB4	300X750	3-25 ALTH.	3-25 ALTH. +3-25 EXT.	3-25 ALTH. +3-25 EXT.	3-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
SB1	300X1550	3-25 ALTH.	2-25 ALTH. +2-25 EXT.	3-25 ALTH.	3-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	16# @ 200 C/C B.F.
SB2	300X1550	2-25 ALTH.	2-25 ALTH. +2-16 EXT.	2-25 ALTH. +2-20 EXT.	2-25 ALTH.	2L-8# @ 200 C.C.	16# @ 200 C/C B.F.
SB3	300X750	2-25 ALTH.	2-25 ALTH. +2-25 EXT.	2-25 ALTH. +2-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
SB4	300X750	3-25 ALTH.	3-25 ALTH. +3-25 EXT.	3-25 ALTH. +3-25 EXT.	3-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
SB5	300X750	3-25 ALTH.	2-25 ALTH. +2-25 EXT.	3-25 ALTH. +3-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
HLB	250X500	2-25 ALTH.	2-25 ALTH. +2-20 EXT.	2-25 ALTH. +2-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
FLB1	250X600	2-25 ALTH.	2-25 ALTH. +2-20 EXT.	2-25 ALTH. +2-25 EXT.	2-25 ALTH.	2L-8# @ 100 C/C TO 200 C.C.	---
FLB2	250X600	2-20 ALTH.	2-20 ALTH. +2-16 EXT.	2-20 ALTH. +2-20 EXT.	2-20 ALTH.	2L-8# @ 200 C.C.	---

SCHEDULE OF SLAB FOR BLOCK 1 & 2.

SLAB MKD.	SLAB THICKNESS	SPAN		SUPPORT	
		BOTTOM		TOP	
		LONG. DIR.	SHORT. DIR.	LONG. DIR.	SHORT. DIR.
S1	110	8# @ 170 C/C ALTH.	8# @ 150 C/C ALTH.	8# @ 170 C/C EXT. TOP.	8# @ 120 C/C EXT. TOP.
S2	100	8# @ 220 C/C T/B ALTH.	8# @ 220 C/C T/B ALTH.	8# @ 220 C/C T/B ALTH.	8# @ 220 C/C T/B ALTH.
S3	165	8# @ 170 C/C T/B ALTH.	8# @ 120 C/C T/B ALTH.	8# @ 170 C/C T/B ALTH.	8# @ 120 C/C T/B ALTH.
S4	100	8# @ 200 C/C ALTH.	8# @ 200 C/C ALTH.	8# @ 200 C/C EXT. TOP.	8# @ 170 C/C EXT. TOP.
S5	120	8# @ 170 C/C ALTH.	8# @ 150 C/C ALTH.	8# @ 170 C/C EXT. TOP.	8# @ 120 C/C EXT. TOP.
S6	165	8# @ 170 C/C T/B ALTH.	8# @ 150 C/C T/B ALTH.	8# @ 170 C/C T/B ALTH.	8# @ 150 C/C T/B ALTH.
S7	120	8# @ 150 C/C ALTH.	8# @ 120 C/C ALTH.	8# @ 120 C/C EXT. TOP.	8# @ 100 C/C EXT. TOP.
S8	100	8# @ 220 C/C T/B ALTH.	8# @ 200 C/C T/B ALTH.	8# @ 220 C/C T/B ALTH.	8# @ 200 C/C T/B ALTH.
S9	110	8# @ 200 C/C ALTH.	8# @ 170 C/C ALTH.	8# @ 200 C/C EXT. TOP.	8# @ 150 C/C EXT. TOP.
S10	120	8# @ 170 C/C ALTH.	8# @ 150 C/C ALTH.	8# @ 150 C/C EXT. TOP.	8# @ 120 C/C EXT. TOP.
DS1	165	10# @ 150 C/C T/B ALTH.	10# @ 150 C/C T/B ALTH.	10# @ 150 C/C T/B ALTH.	10# @ 150 C/C T/B ALTH.
SS1	175	10# @ 150 C/C ALTH.	10# @ 120 C/C ALTH.	10# @ 120 C/C EXT. TOP.	10# @ 80 C/C EXT. TOP.
SS2	175	10# @ 200 C/C ALTH.	10# @ 100 C/C ALTH.	10# @ 200 C/C EXT. TOP.	10# @ 80 C/C EXT. TOP.
SS3	150	10# @ 200 C/C T/B ALTH.	10# @ 200 C/C T/B ALTH.	10# @ 200 C/C T/B ALTH.	10# @ 200 C/C T/B ALTH.

DESIGN IS BASED ON : AAC BLOCKS FOR MASONARY WALLS.

- NOTES :-**
- ALL DIAMETERS ARE IN MILLIMETERS.
 - GRADE OF CONC. : ALL DESIGN MIX.
 - PILE - M-25, WITH MINIMUM CEMENT CONTENT @ 400 Kg/CUM OF CONC.
 - PILE CAP - M-30.
 - COLUMN & LIFT - AS PER SCHEDULE.
 - REST ALL - M-30 UP TO 5TH. ROOF.
 - M25 STR. ROOF TO ROOF AND ABOVE.
 - P.C.C SHALL BE NOMINAL 1:1.5:3 (M20) AS PER IS - 456.
 - TOR STEEL REINFORCEMENT SHALL CONFORM TO LATEST IS : 1786 CODES WITH YIELD STRESS 550 MPa.
 - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - a) PILE : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - b) PILE CAP : 50 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - c) COLUMN : 40 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - d) THE BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - e) FLOOR BEAM : 30 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - f) SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - g) WAIST SLAB : 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.
 - MINIMUM LAP LENGTH - FOR PILE : 40 @ WITH 3 SETS LAP WELDING IN BOTH SIDES FOR A LENGTH OF 25MM. FOR REST LAP LENGTH OF BARS TO BE PROVIDED AS 'L' @ DIA OF BAR.
 - MAXIMUM LOAD ON EACH PILE : FOR 5000 28 M. TIP PILES - 90 T. FOR 5000 25 M. TIP PILES - 63 T. FOR 5000 18.5 M. TIP PILES - 40 T. AS PER THE SOIL INVESTIGATION REPORT PREPARED BY M/S J.P. GEO CONSULTANTS REP. BY JISHNU PAI.
 - POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN 50mm. FOR SINGLE PILE AND 75 mm. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
 - THE PILE HEADS SHALL PROJECT IN TO PILE CAP FOR 50 mm. THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA.
 - ALL TIES TO BE SPOT WELDED WITH VERTICAL REINFORCEMENT.
 - BORING OF PILE :- BORING SHOULD BE DONE WITH DMC METHOD AND BENTONITE SUSPENSION SHOULD BE USED (WITH SP GR. 1.04 TO 1.2 g/cm³ DURING DRILLING AS IS 2911 (PART-1) SEC.2) CL.3.1 IF DMC METHOD APPLIED.
 - FOR PLACING OF CONCRETE IN PILE BORES, A FUNNEL SHOULD BE USED AND METHOD OF CONCRETE POURING SHOULD BE SUCH THAT THE ENTIRE VOLUME OF THE PILE SHAFT IS FILLED UP WITHOUT THE FORMATION OF VOIDS OR MIXING OF SOIL AND DRILLING FLUID WITHIN CONCRETE.
 - VERTICAL LOAD TESTING OF PILE SHOULD CONFIRM IS-2911 (PART-4).
 - RCC BORED CAST IN SITU PILE SHOULD CONFIRM IS-2911 (PART-1, SEC-II)
 - EXT. TOP & BOTT. FLOOR BEAM - i) EXT. TOP TO BE PROVIDED AT L/4 FROM SUPPORT. ii) EXT. BOTT. TO BE EXTENDED L/5 FROM SUPPORT. SLAB - i) EXT. TOP TO BE PROVIDED IN ALL SUPPORTS FOR A LENGTH OF L/3 FROM SUPPORT.
 - ALL DRAWINGS SHALL BE CORRELATED WITH ARCHITECTURAL DRAWINGS & ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER BEFORE EXECUTION.
 - THIS DRAWING TO BE READ ALONG WITH SPECIFICATIONS & ALL REFERENCE DRAWING.
 - ALL THE WORKS SHALL BE DONE AS PER RELEVANT IS CODE PERTAINING TO WORK.
 - CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION OF WORK NO CLAIM WILL BE ENTERTAINED. CONTRACTOR SHALL BE RESPONSIBLE TO PROPER LINE AND LEVEL OF STRUCTURE.
 - DESIGN IS BASED ON AS PER IS-456, IS-875, IS-875, IS-883, IS-2911, IS-13260 & SP-16.
 - STRUCTURAL DESIGN IS DONE FOR 'X' FOR ALL BLOCKS.
 - SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III & SMRF.



REINFORCEMENT OF LIFT.

GRADE OF CONC.		A	B	C	D	E	F	G
[M-30]	8TH. FL. ROOF TO ROOF	8-16# + 4-12#	12# @ 200 C/C B.F.	10# @ 200 C/C B.F.	4-16# + 4-12#	8# @ 1-L LINKS @ 250 C.C.	10-16# + 6-12#	10-16# + 10-12#
[M-30]	5TH. FL. ROOF TO 8TH. FL. ROOF	8-16# + 4-12#	12# @ 200 C/C B.F.	10# @ 200 C/C B.F.	4-16# + 4-12#	8# @ 1-L LINKS @ 250 C.C.	10-16# + 6-12#	10-16# + 10-12#
[M-30]	2ND. FL. ROOF TO 5TH. FL. ROOF	12-16#	16# @ 200 C/C B.F.	10# @ 200 C/C B.F.	8-16#	8# @ 1-L LINKS @ 250 C.C.	10-20# + 6-16#	10-20# + 10-16#
[M-30]	2ND. FL. ROOF FOUNDATION TO 2ND. FL. ROOF	12-16#	16# @ 200 C/C B.F.	10# @ 200 C/C B.F.	8-16#	8# @ 1-L LINKS @ 250 C.C.	10-20# + 6-16#	10-20# + 10-16#

CERTIFICATE OF OWNER

- I ENGAGE ARCHITECT AND E.S.E DURING CONSTRUCTION
- I SHALL FOLLOW THE INSTRUCTIONS OF ARCHITECT AND E.S.E DURING CONSTRUCTION OF THE BUILDING.
- KAMARHATI MUNICIPAL AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURE STABILITY OF BUILDING AND ADJOINING STRUCTURE.
- IF ANY SUBMITTED DOCUMENT IS FOUND TO BE FAKE THE KAMARHATI MUNICIPAL AUTHORITY MAY REVOKE THE SANCTION PLAN.
- THE CONSTRUCTION OF WATER RESERVOIR EXECUTED UNDER THE GUIDENCE OF ARCHITECT & E.S.E

RITZU GHOSAL
SIGNATURE OF OWNER

CERTIFICATE OF STRUCTURAL STABILITY
WE HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON PRE- 22 FEEDER ROAD, WARD NO.-10, HAVE BEEN SO DESIGNED BY ME/US WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL ETC.

RAJ KUMAR AGRAWAL
COUNCIL REGISTRATION NO. CA/84/17940

SIGNATURE OF LBA
(NAME ADDRESS AND EMPANELMENT NO.)
RAJ KUMAR AGRAWAL, ADDRESS-8B,
ROYD STREET, KOL-16,
COUNCIL NO.-CA/84/17940

Kaushik Sengupta
Structural Engineer
LIC. REG. NO.-STRUCT-CLASS(S)-002
SIGNATURE OF STRUCTURAL ENGINEER

Rupak Kumar Banerjee
Geo Technical Engineer I
LIC. REG. NO.-G.T/1/3
SIGNATURE OF GEO-TECHNICAL ENGINEER

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PROJECT-
PROPOSED 5TH & 6TH FLOOR BUILDING AT PROMISE NO.22, FEEDER ROAD, KOLKATA 700017 (ALSO COMMONLY KNOWN AS 22ND FEEDER ROAD HOLDING NO.231 FORNER HOLDING NO.32) WITH REFERENCE TO THE KAMARHATI MUNICIPAL AUTHORITY (MCA) AT KOLKATA (WEST BENGAL). LIC. REG. NO. S/25/348/2015/141, S/4/302/2015/386/2017/141
RECORDED IN PROVISION OF THE KOLKATA MUNICIPALITY ACT, 1919. SCALE 1:1000. PROJECT NO. BAN/2024
TITLE : STRUCTURAL SANCTION DRAWING.
JOB NO. : 07/2023-2024
DRG. NO. : EF/S/04
DRAWN BY : PALASH
SCALE : 1:100, 1:25
DATE : 16.05.2024