

			REINFORCEMENT (OF LIFT.		
GRADE OF CONC.		Α	В	С	D	Е
M - 25	14TH. FL. ROOF TO ROOF	8-12\psi +4-12\psi	10 T@ 200 C/C B/W.	10♥@ 250 C/C B/W.	8-120	10-12 φ+6-12 φ
M - 30	10TH. FL. ROOF TO 14TH. FL. ROOF	8-16 \(\psi + 4-12 \(\psi \)	10 T@ 200 C/C B/W.	10♥@ 250 C/C B/W.	4-16\(\pi\)+4-12\(\pi\)	10-16 \(\pi +6-12 \(\pi \)
M - 30	4TH. FL. ROOF TO 10TH. FL. ROOF	12.160	12 © 200 C/C B/W.	10♥@ 250 C/C B/W.	8-16P	10-16\(\pi\)+6-16\(\pi\)
M - 35	1ST. FL. ROOF TO 4TH. FL. ROOF	12-16♥				
M - 35	FOUNDATION TO 1ST. FL. ROOF	8-20\partition +4-16\partition	12 🕅 200 C/C B/W.	10♥@ 250 C/C B/W.	8-20 P	10-20 \(\pi +6-16 \(\pi\)

		SC	CHEDULE OF S	LAB.		
SLAB SLAB MKD. THICKNESS		S P A B O T T	N O M	S U P P O R T T O P		
VIND.	THICKNESS	LONG. DIR.	SHORT. DIR.	LONG. DIR.	SHORT. DIR.	
S1	110	8√ @ 200 C/C ALTH.	8₹@ 170 C/C ALTH.	8 प्र @ 150 C/C EXT TOP.	8₹@ 120 C/C EXT TOP.	
S2	110	8√@ 220 C/C ALTH.	8₹@ 220 C/C ALTH.	81 @ 220 C/C ALTH.	8 @ 220 C/C ALTH.	
S3	140	8▼@ 200 C/C ALTH.	8₹@ 140 C/C ALTH.	8 रू @ 150 C/C EXT TOP.	8 @ 100 C/C EXT TOP.	
S4	120	8♥@ 200 C/C ALTH.	8√ @ 150 C/C ALTH.	81(@ 170 C/C EXT TOP.	8 (@ 120 C/C EXT TOP.	
S5	110	8▼@ 220 C/C ALTH.	8√ @ 200 C/C ALTH.	8)(@ 200 C/C ALTH.	8 🕷 @ 220 C/C ALTH.	
S6	110	8₹@ 200 C/C ALTH.	8√ @ 150 C/C ALTH.	81 @ 200 C/C EXT TOP.	8४ @ 120 C/C EXT TOP.	
S7	110	8▼@ 200 C/C ALTH.	8√@ 150 C/C ALTH.	81 @ 170 C/C EXT TOP.	8क् @ 120 C/C EXT TOP.	
S8	120	8▼@ 150 C/C ALTH.	8页@ 150 C/C ALTH.	81 @ 120 C/C EXT TOP.	8क्@ 120 C/C EXT TOP.	
GS1	140	8▼@ 170 C/C ALTH.	8₹@ 150 C/C ALTH.	8४ @ 150 C/C EXT TOP.	8 @ 120 C/C EXT TOP.	
GS2	110	8)(@ 220 C/C ALTH.	8₹@ 200 C/C ALTH.	8√ @ 220 C/C ALTH.	81@ 200 C/C ALTH.	
GS3	110	8▼@ 220 C/C ALTH.	8√ @ 220 C/C ALTH.	8 T @ 220 C/C ALTH.	8४@ 220 C/C ALTH.	
GS4	120	8頁@ 200 C/C ALTH.	8▼@ 150 C/C ALTH.	8च् @ 170 C/C EXT TOP.	8क्@ 120 C/C EXT TOP.	
GS5	120	8頁@ 170 C/C ALTH.	8♥@ 170 C/C ALTH.	8 रू @ 120 C/C EXT TOP.	8 🕷 @ 120 C/C EXT TOP.	
GS6	110	8▼@ 250 C/C AS DIST.	8√ @ 200 C/C ALTH.	8√ @ 250 C/C AS DIST.	8४@ 200 C/C ALTH.	
GS7	110	8▼@ 200 C/C ALTH.	8√ @ 170 C/C ALTH.	8 T @ 200 C/C EXT TOP.	8४ @ 150 C/C EXT TOP.	
OS1	150	10頁@ 200 C/C ALTH.	10℃@ 150 C/C ALTH.	10 €@ 200 C/C EXT TOP.	10页@ 100 C/C EXT TOP.	
OS2	150	10℃@ 200 C/C ALTH.	10√ @ 200 C/C ALTH.	10 ₹@ 150 C/C EXT TOP.	10₹@ 150 C/C EXT TOP.	
OS3	150	10℃@ 150 C/C ALTH.	10℃@ 150 C/C ALTH.	10 (@ 120 C/C EXT TOP.	10℃@ 120 C/C EXT TOP.	
OS4	125	10√ @ 200 C/C ALTH.	10√€@ 170 C/C ALTH.	10 0 200 C/C EXT TOP.	10頁@ 150 C/C EXT TOP.	
OS5	150	10℃@ 200 C/C ALTH.	10♥@ 150 C/C ALTH.	10 0 170 C/C EXT TOP.	10页@ 120 C/C EXT TOP.	
OS6	125	10℃@ 220 C/C ALTH.	10√€@ 220 C/C ALTH.	10▼@ 220 C/C ALTH.	10 1 €@ 220 C/C ALTH.	
DS1	150	10₹@ 170 C/C ALTH.	10▼@ 150 C/C ALTH.	10 €@ 150 C/C EXT TOP.	10 0 @ 120 C/C EXT TOP.	
DS2	110	8页@ 220 C/C ALTH.	8₹@ 200 C/C ALTH.	8√ @ 220 C/C ALTH.	8४@ 200 C/C ALTH.	
DS3	110	8ऍ@ 220 C/C ALTH.	8ऍ@ 220 C/C ALTH.	8√ @ 220 C/C ALTH.	8√@ 220 C/C ALTH.	
DS4	150	10√(@ 200 C/C ALTH.	10℃@ 150 C/C ALTH.	10℃@ 170 C/C EXT TOP	10 (@ 120 C/C EXT TOP.	
DS5	150	10√ @ 200 C/C ALTH.	10√€@ 150 C/C ALTH.	10√€@ 170 C/C EXT TOP	10 0 @ 120 C/C EXT TOF'.	
DS6	110	10℃@ 250 C/C AS DIST.	10√€@ 200 C/C ALTH.	10 ♥@ 250 C/C AS DIST.	10 T@ 200 C/C ALTH.	
DS7	110	8▼@ 200 C/C ALTH.	8ऍ@ 170 C/C ALTH.	8 📆 200 C/C EXT TOP.	8४(@ 150 C/C EXT TOP.	
DS8	150	10℃@ 150 C/C ALTH.	10√€@ 150 C/C ALTH.	10√ @ 120 C/C EXT TOP	10√ @ 120 C/C EXT TOP.	

NOTES :-

1) ALL DIAMETERS ARE IN MILLIMETERS. 2) GRADE OF CONC.: ALL DESIGN MIX AS PER IS: 456. i. PILE :- M-25, WITH MINIMUM CEMENT CONTENT @ 400 Kg/CUM OF CONC. ii. RAFT :- M-35.

iii. COLUMN & LIFT :- AS PER SCHEDULE.

iv. REST ALL: - AS PER COLUMN GRADE AT RESPECTIVE LEVELS. 3) P.C.C SHALL BE DESIGN MIX (M20) AS PER IS: 456. 4) TOR STEEL REINFORCEMENT SHALL CONFORM TO LATEST IS: 1786 WITH YIELD STRESS 500 MPa. 5) CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

AS FOLLOWS:a) PILE: 40 MM ALL SIDES FROM OUTERMOST MAIN BAR. b) RAFT: 50 MM ALL SIDES FROM OUTERMOST MAIN BAR. c) COLUMN: 40 MM ALL SIDES FROM OUTERMOST MAIN BAR. d) FLOOR BEAM: 30 MM ALL SIDES FROM OUTERMOST MAIN BAR. e) SLAB: 20 MM ALL SIDES FROM OUTERMOST MAIN BAR. f) WAIST SLAB: 20 MM ALL SIDES FROM OUTERMOST MAIN BAR.

6) MINIMUM LAPLENGTH -FOR PILE: 40 Ø WITH 3 SETS LAP WELDING IN BOTH SIDES FOR A LENGTH OF 25MM. FOR REST - M-35: 40 Ø OF THE BAR.

M-30: 45 Ø OF THE BAR. M-25: 49 Ø OF THE BAR. 7) MAXIMUM LOAD ON EACH PILE: FOR 500Ø 9 M. TIP PILES - 30 T IN COMPRESSION & 10 T IN

TENSION. AS PER THE SOIL INVESTIGATION REPORT PREPARED BY M/S BOSE ENGINEERS 8) SUB- GRADE MODULUS OF SOIL CONSIDERED AS 36000 KN/SQM/M AT 3M DEPTH FOR 125MM SETTLEMENT.

9) POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN, 50mm, FOR SINGLE PILE, AND 75 mm. FOR GROUP OF PILES SHALL NOT BE 10) THE PILE HEADS SHALL PROJECT IN TO PILE CAP FOR 50 mm. THE

HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA. 11) ALL TIES TO BE SPOT WELDED WITH VERTICAL REINFORCEMENT. i. BORING SHOULD BE DONE WITH DMC METHOD AND BENTONITE SUSPENSION SHOULD BE USED (WITHSP.GR. 1.04 TO 1.2 gm/cm3

DURING DRILLING AS IS 2911 (PART-I/ SEC 2) CL A.3.1 IF DMC METHOD APPLIED. ii. FOR PLACING OF CONCRETE IN PILE BORES, A FUNNEL SHOULD BE USED AND METHOD OF CONCRETING 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. 13) VERTICAL LOAD TESTING OF PILE SHOULD CONFIRM IS-2911 (PART-4). 14) RCC BORED CAST IN SITU PILE SHOULD CONFIRM IS-2911 (PART-1, SEC-II) 15) 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 0F L/4 FROM SUPPORT.

ii) BOTTOM ROD TO BE ALT. CUT. AT L/5 FROM SUPPORT. 16) ALL DRAWINGS SHALL BE CORRELATED WITH ARCHITECTURAL DRAWINGS & ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF

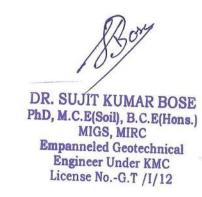
THE ENGINEER BEFORE EXECUTION. 17) THIS DRAWING TO BE READ ALONGWITH SPECIFICATIONS & ALL

REFERENCE DRAWING. 18) ALL THE WORKS SHALL BE DONE AS PER RELEVANT IS CODE PERTAINING TO WORK.

19) CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION OF WORK NO CLAIM WILL BE ENTERTAINED. CONTRACTOR SHALL BE RESPONSIBAL TO PROPER LINE AND LEVEL OF STRUCTURE. 20) DESIGN IS BASED ON AS PER IS-456, IS-875,SP16, IS-1893, IS-2911 & IS-13920. 21) STRUCTURAL DESIGN IS DONE FOR (B+G+XVIII) STORIED BUILDING ONLY.

22) SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III & SMRF.

CERTIFICATE OF GEO-TECHNICAL ENGINEER PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM PROPOSED HEREIN IS SAFE & STABLE IN ALL RESPECT FROM GEO-TECHNICAL POINT OF VIEW.



SIGNATURE OF GEOTECH ENGINEER

5. THE CONSTUCTION OF WATER RESERVOIR AND SEPTIC TANK EXECUTED UNDER THE GUIDENCE OF



SIGNATURE OF OWNER CERTIFICATE OF ARCHITECT

THE L.B.A. HAS CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF K.M.C. BLDG. RULES 2009, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFIRM WITH THE PLAN AND IT IS A BUILD ABLE SITE AND NOT A TANK OR A FILLED UP TANK.

> Member of Council of Architecture CA / 94 / 17940 SIGNATURE OF ARCHITEC

CERTIFICATE OF STRUCTURAL ENGINEER THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT. THE RECOMMENDATION OF SOIL REPORT HAS BEEN CONSIDERED DURING STRUCTURAL CALCULATION.

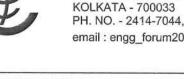


SIGNATURE OF STRUCTURAL ENGINEER









PH. NO. - 2414-7044, 9874561607 email: engg_forum2005@yahoo.co.in

PROPOSED PLAN OF B+G+XVIII STORIED (59.05 M. HT.) RESIDENTIAL BUILDING AT HOLDING NO.-184/N. C/W NO.-C/20, L.R. KHATIAN NO.-7456. J.L. NO.-119, SEBEK DAG NO.-1294, 1296, 1297, 1298, 1299, 1300, 1320, HAL DAG NO.-1334, 1333, 1332, (1329,1330,1331) 1318, 1317, 1328, MOUZA-BHIRINGI, G.T. ROAD, DURGAPUR-13, P.S.-DURGAPUR (FARIDPUR), DISTRICT - BURDWAN.

TITLE: STRUCTURAL SANCTION DRAWING.

JOB NO.: 03/2021-2022 DRG. NO.: EF/S/02

DRAWN BY: HEMANTA SCALE: 1:100, 1:25 DATE: 17.05.2022