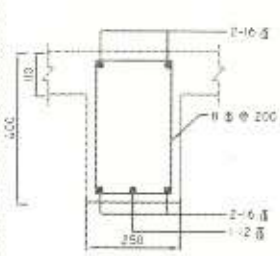
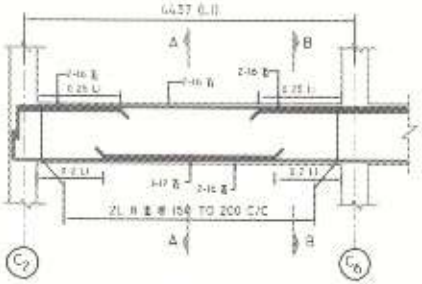
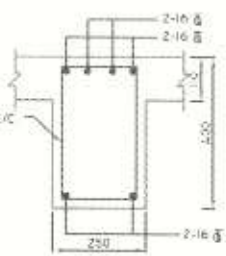
STRUCTURAL PLAN OF PROPOSED THREE STORIED RESIDENTIAL BUILDING AT PREMISES NO.- 131, DAKSHIN PARA ROAD, WARD-125, BOROUGH- XVI, UNDER THE KOLKATA MUNICIPAL CORPORATION.
NAME OF OWNERS : SATYA NARAYAN KARAN & JHARNA KARAN.



SEC A-A
SCALE : 1:10



DTLS. OF R.C.C. FLOOR BEAM MKD. BB



SEC B-B
SCALE : 1:10

SCHEDULE OF BEAM :-

BEAM MKD	SIZE (MM×MM)	REINF. AT SPAN		REINF. AT SUPT		STRPS
		TOP	BOT	TOP	BOT	
B1	250x300	2-12ϕ	2-12ϕ + 1-16ϕ	2-12ϕ + 1-12ϕ	2-12ϕ	8ϕ 2L@ 150 C/C
B2	250x300	2-12ϕ	2-12ϕ + 1-12ϕ	2-12ϕ + 2-12ϕ	2-12ϕ	8ϕ 2L@ 150 C/C
B5	250x300	2-16ϕ	3-12ϕ	2-16ϕ + 1-12ϕ	3-12ϕ	8ϕ 2L@ 150 C/C
BL	250x350	2-16ϕ	2-16ϕ + 1-12ϕ	2-16ϕ + 2-16ϕ	2-16ϕ	8ϕ 2L@ 150 TO 175 C/C
B5	250x350	2-16ϕ	2-16ϕ	2-16ϕ + 2-12ϕ	2-16ϕ	8ϕ 2L@ 150 TO 175 C/C
B6	250x350	2-16ϕ	3-12ϕ	2-16ϕ + 1-12ϕ	3-12ϕ	8ϕ 2L@ 150 TO 175 C/C
B7	250x350	2-12ϕ	2-16ϕ + 1-12ϕ	2-12ϕ + 1-16ϕ	2-16ϕ	8ϕ 2L@ 175 C/C
B8	250x400	2-16ϕ	2-16ϕ + 1-12ϕ	2-16ϕ + 2-16ϕ	2-16ϕ	8ϕ 2L@ 150 TO 200 C/C

SCHEDULE OF TIE BEAM :-

BEAM MKD	SIZE (MM×MM)	REINF. AT SPAN		REINF. AT SUPT		STRPS
		TOP	BOT	TOP	BOT	
TB1	250x300	2-12ϕ + 1-16ϕ	3-12ϕ	2-12ϕ + 1-16ϕ	3-12ϕ	8ϕ 2L@ 150 C/C
TB2	250x350	2-16ϕ + 1-12ϕ	2-12ϕ + 1-16ϕ	2-16ϕ + 1-12ϕ	2-12ϕ + 1-16ϕ	8ϕ 2L@ 175 C/C
TB3	250x400	2-16ϕ + 2-12ϕ	2-16ϕ + 1-12ϕ	2-16ϕ + 2-12ϕ	2-16ϕ + 1-12ϕ	8ϕ 2L@ 175 C/C

SCHEDULE OF FOUNDATION :-

MKD	UNDER COLS	SIZE (WxL) (mmxmm)		DEPTH (mm)	PEDESTAL (mm)	REINFORCEMENT
F1	C9,C14 - C19	1750	1900	350	400x300	10 ϕ @175 mm C/C B/WAYS
F2	C1,C4,C5,C12	1850	2050	400	400x300	10 ϕ @150 mm C/C B/WAYS
F3	C2,C11,C13	2000	2350	400	400x300	10 ϕ @150 mm C/C B/WAYS
F4	C3,C6-C8,C10	2200	2650	450	400x350	10 ϕ @125 mm C/C B/WAYS

SCHEDULE OF SLAB :-

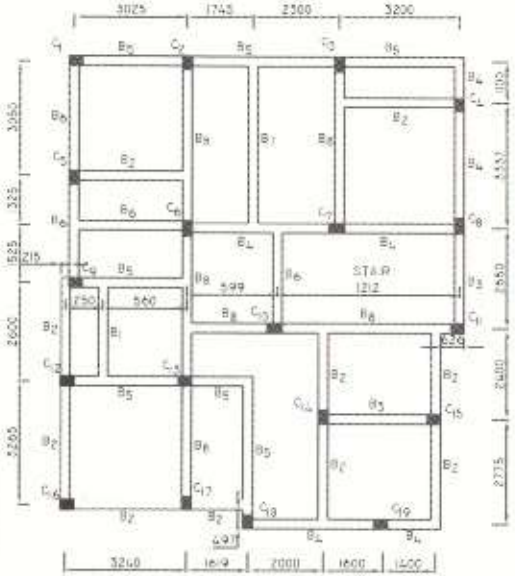
PANEL MKD	TH (mm)	REINFORCEMENT AT BOTTOM		REINFORCEMENT AT TOP (SUPPORT)	
		SHORT DIREC.	LONG DIREC.	SHORT DIREC.	LONG DIREC.
ALL	110	8 ϕ @ 175 MM. C/C ALT. CKD	8 ϕ @ 200 MM. C/C ALT. CKD	8 ϕ @ 350 MM. C/C EXTRA	8 ϕ @ 400 MM. C/C EXTRA

SCHEDULE OF COLUMN :-

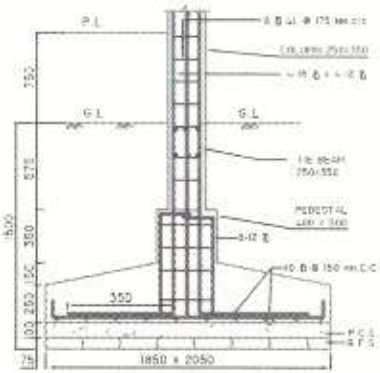
COL. MKD.	SECTION	LONG REINFORCEMENT	LATERAL TIE
C9,C14-C19	250x350	4-16 ϕ + 2-12 ϕ	8 ϕ 4L @ 175 MM. C/C
C1,C4,C5,C12	250x350	4-16 ϕ + 4-12 ϕ	8 ϕ 4L @ 175 MM. C/C
C2,C11,C13	250x350	8-16 ϕ	8 ϕ 4L @ 175 MM. C/C
C3,C6-C8,C10	250x400	8-16 ϕ	8 ϕ 4L @ 175 MM. C/C

STRUCTURAL LAYOUT PLAN
SCALE : 1:100

DETLS. OF STAIR



GENERAL ARRANGEMENT OF BEAM
SCALE : 1:100



DETAILS OF RCC COLUMN WITH FOUNDATION
TYPE-F2 (C1)
SCALE : 1:25

NOTES

1. ALL DIMENSIONS ARE IN MM & ELEVATIONS ARE IN METRE.
2. ALL STRUCTURAL CONCRETE SHALL BE OF GRADE M-20 CONFORMING TO IS 456-2000.
3. ALL LEAN CONCRETE SHALL BE GRADE OF M-10 (1:2:4).
4. ALL REINFORCEMENT STEEL BARS SHALL CONFORM CHARACTERISTIC STRENGTH FOR MAIN REINFORCEMENT GRADE-Fe-500 & CHARACTERISTIC STRENGTH FOR SECONDARY REINFORCEMENT GRADE-Fe-500.
5. UNLESS NOTED, OTHERWISE LAP/ ANCHOR (LD) LENGTH SHALL BE 50 TIMES THE DIAMETER OF THE BAR.
6. IF THERE IS ANY ADJOINING STRUCTURE, PRECAUTION SHOULD BE TAKEN BY SHORING WITH S.G. BALLOM OF STEEL SHEET PILING BEFORE STARTING THE EXCAVATION WORK FOR THE PROPOSED FOUNDATION.
7. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS :

ITEMS	TOP	BOTTOM	SIDE
A) FOUNDATION (F1,F2,F3,F4)	40 MM	50 MM	50 MM
B) PEDESTAL	25 MM	-	25 MM
C) COLUMN	-	-	40 MM
D) TIE BEAM	25 MM	25 MM	25 MM
E) FLOOR BEAM	25 MM	25 MM	25 MM
F) ROOF SLAB	15 MM	15 MM	25 MM

CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF K.M.C. BUILDING RULES 2009, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING WIDTH OF ABUTTING ROAD (RT. BY K.M.C.) CONFORM WITH THE PLAN, WHICH HAS BEEN MEASURED AND VERIFIED BY ME. IT IS A BUILDABLE SITE NOT AT TANK OR FILLED UP A TANK. THE LAND IS DEMARCATED BY BOUNDED BY BOUNDARY WALL. THE CONSTRUCTION OF U.G. WATER TANK AND SEPTIC TANK WILL BE COMPLETED BEFORE STARTING OF BUILDING FOUNDATION WORK.

SANJOY CHATTERJEE
L.B.S. NO -453 (I)
NAME OF L.B.S.

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME. CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER NATIONAL BUILDING CODE OF INDIA (LATEST EDITION) AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

PRABIR KUMAR CHATTOPADHYAY
ESE/1496
NAME OF STRUCTURAL ENGINEER

I DO HEREBY DECLARE WITH FULL RESPONSIBILITY THAT I SHALL ENGAGE L.B.S. AND E.S.E. DURING CONSTRUCTION I SHALL FOLLOW THE INSTRUCTION OF L.B.S. AND E.S.E. DURING CONSTRUCTION OF THE BUILDING (AS PER B.S. PLAN) K.M.C. AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE BUILDING AND ADJOINING STRUCTURES IF ANY SUBMITTED DOCUMENTS ARE FOUND TO BE FAKE THE K.M.C. AUTHORITY WILL REVOKE THE SANCTION PLAN. THE CONSTRUCTION OF WATER RESERVOIR AND SEPTIC TANK WILL BE UNDERTAKEN UNDER THE GUIDANCE OF L.B.S. / E.S.E. BEFORE STARTING OF BUILDING FOUNDATION WORK.

Satyanarayan Karan
Jharna Karan

SATYA NARAYAN KARAN
JHARNA KARAN
NAME OF OWNERS