SCHEDULE OF COLUMN (Fe-500, M=25)

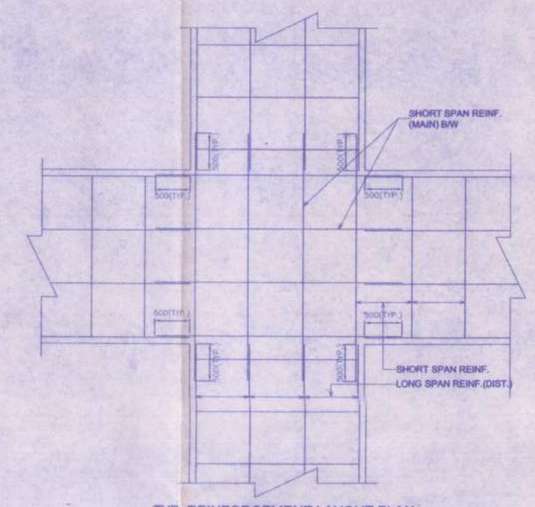
GROUP MKD.	COLUMN MKD.	SIZE OF COLUMN WITH REINFORCEMENTS (MAIN BAR & LINKS)	C/S OF COLUMN	LINKS DETAILS
I	C1,C2,C3,C4,C32, C33,C34 (7 NOS.)	SIZE : (300X450) MAIN BAR: 10-18 Ø LINKS: 2L 8 Ø STIRRUPS (2NO)	450, 300	NEAR JUNCTION (UPTO 'lo') LENGTH 8 @75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8 @150C/C (2 NOS. CLOSED LINK PER SET)
II	C5,C6,C7,C8,C9,C10, C12,C13,C14,C17,C18, C19,C21,C21A,C22, C23,C24,C26,C27,C28, C29,C30,C35,C37,C38, C39,C42,C47,C49,C50, C51,C52,C53,C54 (34NOS.)	SIZE : (300X450) MAIN BAR: 4-20Ø +6-16 Ø LINKS: 2L 8 Ø STIRRUPS (2NO)	450, 2-20Ø, 150, 2-20Ø	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS: 8 @75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8 @150C/C (2 NOS. CLOSED LINK PER SET)
III	C11,C15,C16,C16A, C20,C31,C36,C40, C46,C48 (10 NO)	SIZE : (300X450) MAIN BAR: 6-20Ø +4-16 Ø LINKS: 2L 8 Ø STIRRUPS (2NO)	450, 2-16Ø, 150, 2-16Ø	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS: 8 @75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8 @150C/C (2 NOS. CLOSED LINK PER SET)
IV	C25,C41,C43,C44,C45 (5 NO)	SIZE : (300X450) MAIN BAR: 10-20Ø LINKS: 2L 8 Ø STIRRUPS (2NO)	450, 300	NEAR JUNCTION (UPTO 'lo') LENGTH LINKS: 8 @75C/C (2 NOS. CLOSED LINK PER SET) AT REST PORTION LINKS: 8 @150C/C (2 NOS. CLOSED LINK PER SET)

SCHEDULE OF BEAM (Fe-500, M=25)

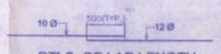
BEAM MKD.	SIZE (mm)	REINFORCEMENT DETAILS AT SUPPORT			REINFORCEMENT DETAILS AT MID SPAN		
		TOP	BOTTOM	STIRRUPS(S1)	TOP	BOTTOM	STIRRUPS(S2)
B1	250X450	3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B1A	250X450	3-12T (A.T)	3-12 (A.T)	2L - 8T @75 C/C	3-12T (A.T)	3-12T (A.T)	2L - 8T @150 C/C
B2	250X450	3-16T (A.T) 2-12T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-12T (E.B)	2L - 8T @150 C/C
B2A	250X450	3-16T (A.T) 2-12T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T) 2-12T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B2B	250X450	3-16T (A.T) 2-12T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B3	250X450	3-16T (A.T) 2-16T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-16T (E.B)	2L - 8T @150 C/C
B3A	250X450	3-16T (A.T) 2-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T) 2-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B3B	250X450	3-16T (A.T) 2-16T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B4	250X450	3-16T (A.T) 3-16T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 3-16T (E.B)	2L - 8T @150 C/C
B4A	250X450	3-16T (A.T) 3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T) 3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B4B	250X450	3-16T (A.T) 3-16T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
B5	250X450	3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-16T (E.B)	2L - 8T @150 C/C
B6	250X450	3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-12T (E.B)	2L - 8T @150 C/C
B7	250X450	3-20T (A.T) 3-16T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T) 2-16T (E.B)	2L - 8T @150 C/C
B7A	250X450	3-20T (A.T) 3-16T (A.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T) 3-16T (A.T)	3-20T (A.T)	2L - 8T @150 C/C
B7B	250X450	3-20T (A.T) 3-16T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T)	2L - 8T @150 C/C
H.L.B	250X400	3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C

SCHEDULE OF SLAB (Fe-500, M=25)

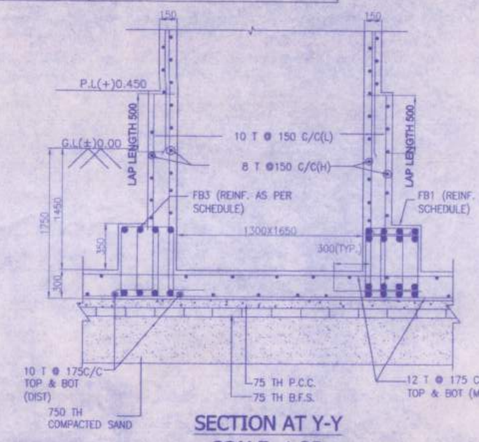
SLAB MKD.	THICK. (mm.)	SHORT SPAN REINFORCEMENT DETAILS		LONG SPAN REINFORCEMENT DETAILS	
		SPAN	SUPPORT	SPAN	SUPPORT
S1	125	8T @175 C/C (BOTTOM)	8T @175 C/C(EXTRA TOP) 8T @350 C/C (BOTTOM)	8T @175 C/C (BOTTOM)	8T @175 C/C(EXTRA TOP) 8T @350 C/C (BOTTOM)
S2	140	8T @150 C/C (BOTTOM)	8T @150 C/C(EXTRA TOP) 8T @300 C/C (BOTTOM)	8T @150 C/C (BOTTOM)	8T @150 C/C(EXTRA TOP) 8T @300 C/C (BOTTOM)
S1A	125	8T @ 175 C/C +10T @175C/C (ALT)(TOP) 8T @175 C/C (BOTTOM)		8T @175 C/C (TOP & BOTTOM)	
S2A	140	8T @ 175 C/C +10T @175C/C (ALT)(TOP) 8T @175 C/C (BOTTOM)		8T @175 C/C (TOP & BOTTOM)	



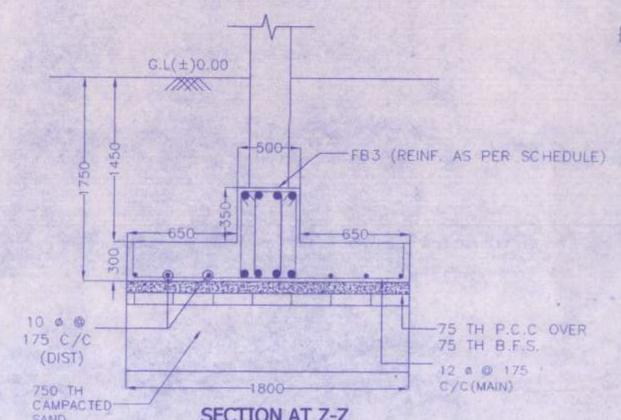
TYP. REINFORCEMENT LAYOUT PLAN OF STRIP SLAB (FOUNDATION)
SCALE-1:25



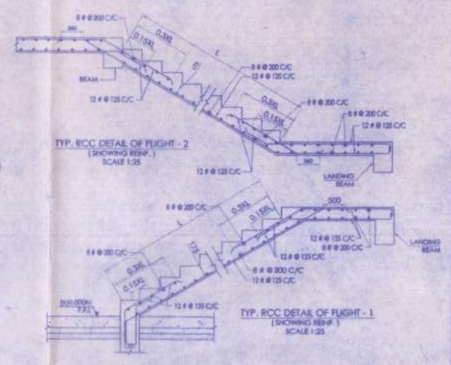
DTLS. OF LAP LENGTH
SCALE-1:25

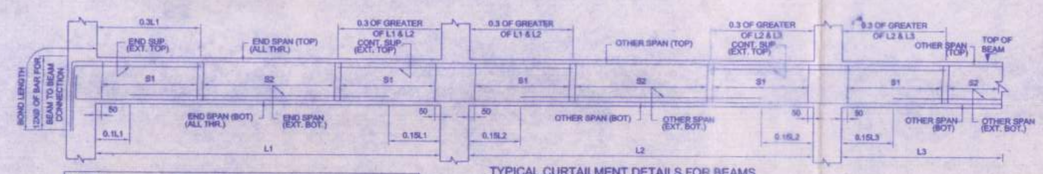


SECTION AT Y-Y
SCALE- 1:25



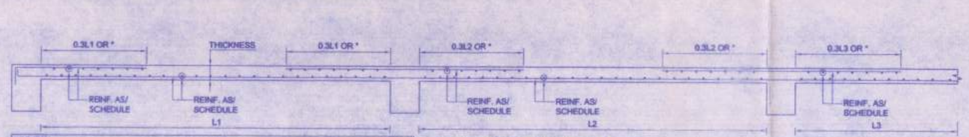
SECTION AT Z-Z
SCALE- 1:25





NOTE:
AT ALL CONTINUOUS SUPPORTS COMMON TO BEAMS OF TWO DIFFERENT MARKS PROVIDE HIGHER AREA OF REINF. BETWEEN THE TWO VALUES SHOWN FOR THE CONTINUOUS SUPPORTS OF THE TWO DIFFERENTLY MARKED BEAMS.

TYPICAL CURTAILMENT DETAILS FOR BEAMS
(MULTIPLE SPAN BEAM)

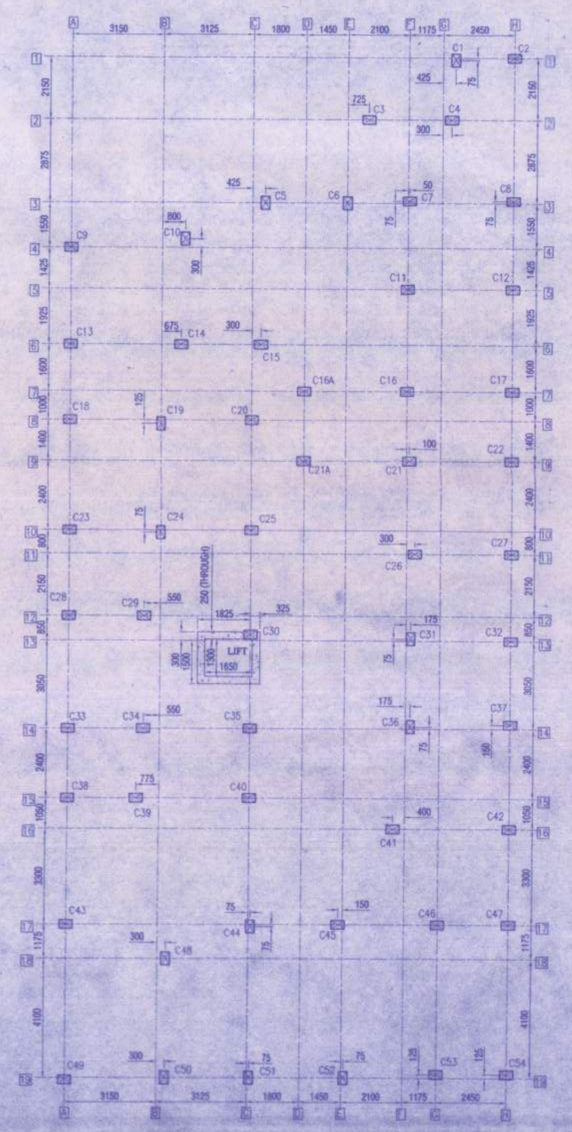


NOTE:
AT CONTINUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS PROVIDE HIGHER AERA OF REINF. BETWEEN THE TWO DIFFERENTLY MARKED SLABS.

TYP. DETAIL OF FLOOR SLAB
(* BOND LENGTH WHICHEVER IS GREATER)

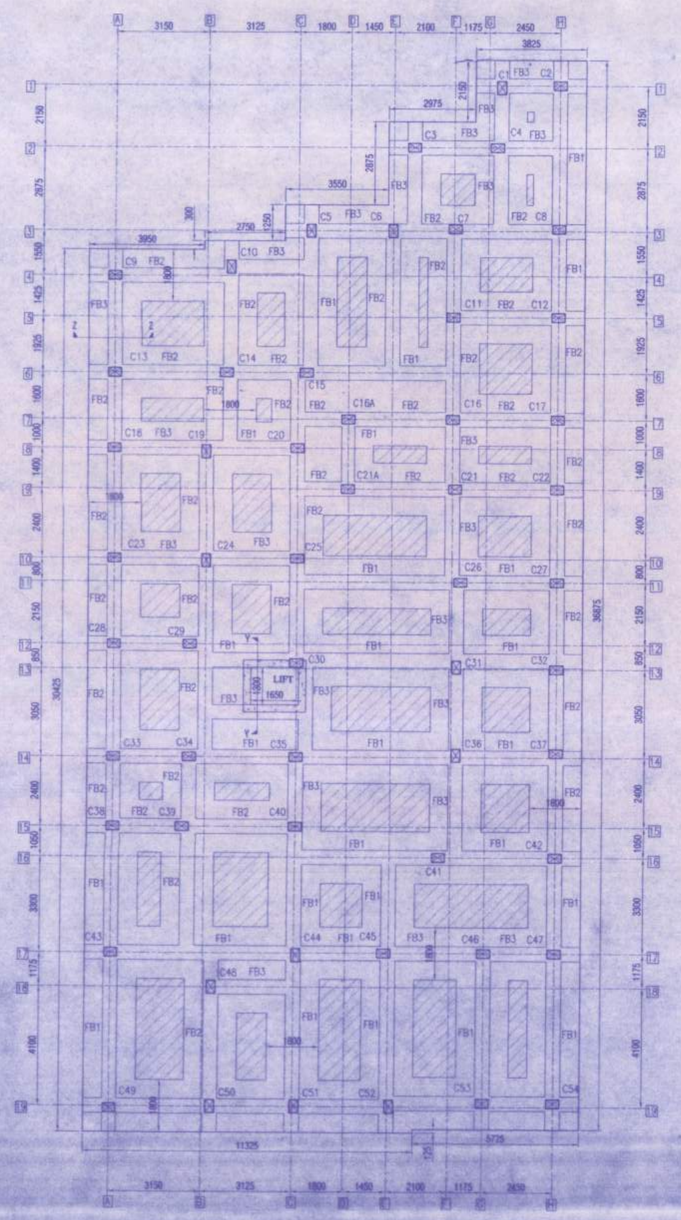
SCHEDULE OF FOUNDATION BEAM (Fe-500, M=25)

FOUND MKD.	SIZE (mm)	REINFORCEMENT DETAILS AT SUPPORT			REINFORCEMENT DETAILS AT MID SPAN		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
FB1	500X650	4-16T(A.T) 4-16T(A.T)	4-16T(A.T) 4-16T(A.T)	4L 10T @ 150C/C	4-16T(A.T) 4-16T(A.T)	4-16T(A.T) 4-16T(A.T)	4L 10T @ 150 C/C
FB2	500X650	4-16T(A.T) 4-12T(A.T)	4-16T(A.T) 4-12T(A.T)	4L 10T @ 175C/C	4-16T(A.T) 4-12T(A.T)	4-16T(A.T) 4-12T(A.T)	4L 10T @ 175C/C
FB3	500X650	4-16T(A.T)	4-16T(A.T)	4L 10T @ 175C/C	4-16T(A.T)	4-16T(A.T)	4L 10T @ 175C/C

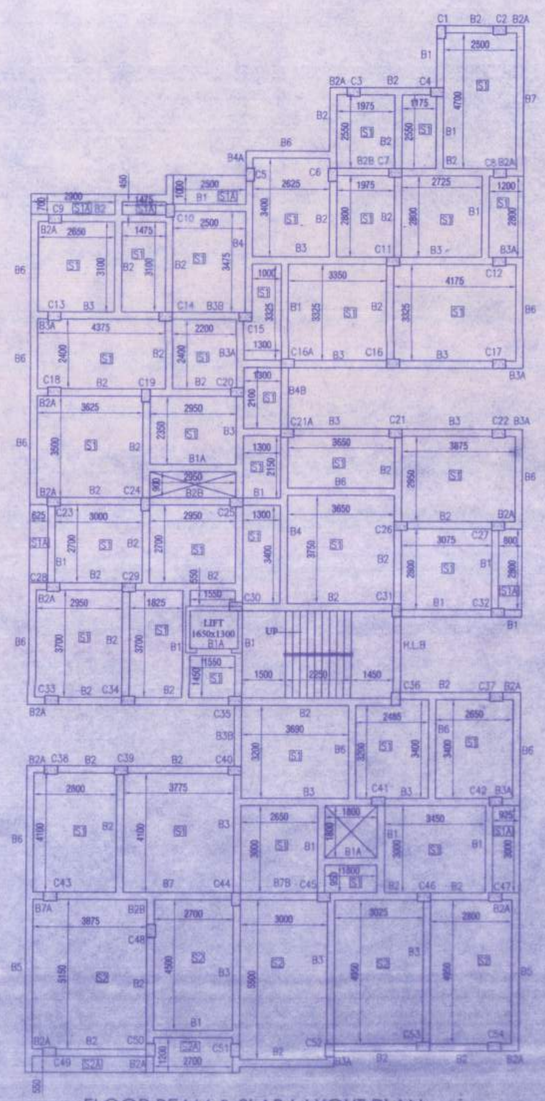


CENTRE LINE LAYOUT PLAN
SCALE 1:100

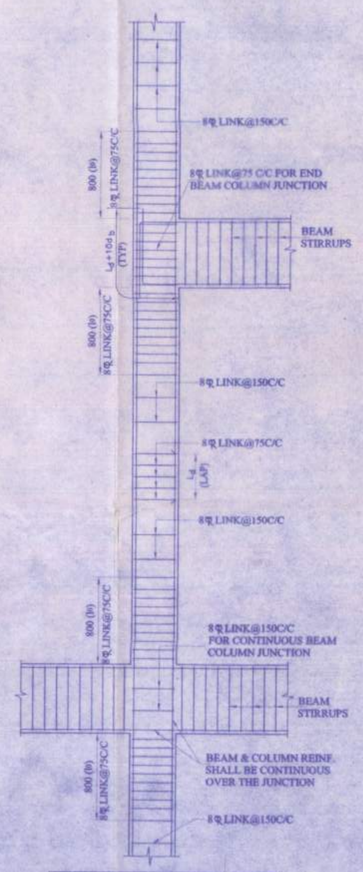
BLOCK- A



FOUNDATION LAYOUT PLAN
SCALE 1:100



FLOOR BEAM & SLAB LAYOUT PLAN
SCALE 1:100



L_d = DEVELOPMENT LENGTH IN TENSION
ϕ_b = DIAMETER OF LONGITUDINAL BAR

TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25

PROPOSED PLAN FOR G+IV STORIED RESIDENTIAL BUILDING PLAN OF " ASHOK KUMAR ROY " AT MOUZA - KALABERIA, J.L. NO. - 38, R.S. NO.- 198, R.S. & L.R. DAG NO.- 448, C.S DAG NO.- 372(P), L.R. KHATIAN NO.-1842, 1843, 1844, 1851 & 1852, P.S.- RAJARHAT, DIST. (NORTH) 24 PARGANAS, UNDER RAJARHAT BISHNUPUR 1NO.GRAM PANCHAYET.

DEVELOPED BY- MAA LAND DEVELOPERS PVT. LTD.

SPECIFICATION :

1) ALL DIMENSIONS ARE IN MM. UNLESS SPECIFIED
2) GRADE OF CONCRETE - M25
3) GRADE OF STEEL - H.Y.S.D. (Fe 500)
4) ALL OTHER STRUCTURAL DETAILS SUCH AS LAPPING, COVER, ETC. AS PER IS: 456-2000
5) THE DRAWING IS TO BE READ IN CONNECTION WITH ARCHITECTURAL DRAWING
6) DO NOT SCALE THE DRAWING, WRITTEN DIMENSIONS ARE TO BE FOLLOWED
7) BASIS OF DESIGN ARE BOTH WORKING STRESS & LIMITING STRESS METHOD
8) ALL DIMENSIONS SHOULD BE CHECKED AT SITE
9) DRAWING SCALES - 1 : 100, 1:50, 1 : 25
10) THIS DRAWING IS A PRIVATE & CONFIDENTIAL DOCUMENT OF THE ABOVE CONSULTANT. IT MUST NOT BE COPIED OR CHANGED WITHOUT THEIR CONSENT
A.T - ALL THROUGH E.T - EXTRA TOP

CERTIFICATE OF OWNER

I SHALL NOT CONSTRUCT THE BUILDING IN DEVIATION OF THE SUBMITTED PLANS AND DRAWINGS.

MAA LAND DEVELOPERS PVT. LTD.
Director

SIGNATURE OF OWNER

CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT HAVE BEEN PREPARED BY ME COMPLYING WITH THE PROVISION OF NEW TOWN KOLKATA PLANNING AREA (BUILDING) RULES, 2014. NO SUCH WRONG & INCORRECT INFORMATION HAS BEEN FURNISHED BY ME INCLUDING AREA CALCULATION CHARTS IN THIS DRAWING & NO VIOLATION OF THE PROVISION OF THESE RULES WILL BE FOUND IN ANY OF THE DRAWINGS & DOCUMENTS SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

ANIRUDHYA DAS
Registered Architect
Reg. No. CA / 2021 / 110177

SIGNATURE OF ARCHITECT

CERTIFICATE OF ENGINEER

I CERTIFY THAT THE STRUCTURAL DRAWING & DESIGN OF BOTH THE FOUNDATION & SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT (AS PER THESE RULES, REGULATIONS & CODE MADE) & ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD & THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER CURRENT CODES OF BUREAU OF INDIA STANDARD & NATIONAL BUILDING CODE OF INDIA & CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT OF TO G+IV STORIES & THESE PROVISION SHALL BE ADHERED TO DURING THE CONSTRUCTION.

Abhiratanu Dhar
Structural Engineer
M. Tech (Struct. & Tech (CHC)
Reg. Under NKDA
STE/NKDA/10/00121
CVE/NKDA/10/00177

SIGNATURE OF ENGINEER

CERTIFICATE OF GEOTECHNICAL ENGINEER

IT IS CERTIFIED THAT COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN & CALCULATION OF THE FOUNDATION BY ANALYZING THE SOIL SAMPLES FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXTENDED UP TO THE APPROPRIATEDEPTH THAT HAS BEEN PROPOSED IN THE GEOTECHNICAL REPORT.

S. K. Mandal
B.E. (Civil), M.I.E., M.I.G.S.-LM71348
L.B.S. Cases-I (M.M.C.), EDC-8
Consulting Chartered Engineer
Structural Chartered Engineer
Structural & Geo-Technological
Expert Under Calcutta HC
Reg. Under W.B.D.A.
And ESE-1&GEO, TECH-I
Recommended by MED. Govt. of W.B.

SIGNATURE OF GEOTECHNICAL ENGINEER

VETTED

Dipesh Majumdar
Dr. Dipesh Majumdar
BE, ME (Structure), PhD
Assistant Professor
Department of Construction Engineering
Jadavpur University

SIG. OF PROFESSOR

TITLE :

CENTER LINE OF COLUMN, STRIP SLAB AND BEAM LAYOUT & SCHEDULE, FLOOR BEAM-SLAB LAYOUT & SCHEDULE, , COLUMN LONG AND CROSS SECTIONAL DETAILS.

N

CONSULTANT :

DESIGN CRAFT CONSULTANTS
CONSULTING ENGINEERS
MOB: 9073248960
EMAIL: abhiratanudhar@gmail.com

REVISION NO.	:	00/00
DRAWING NO.	:	STRUC-01
DRAWN BY	:	MIULY SAHA
CHECKED BY	:	ABHIRATANU DHAR
DATE	:	16.12.2023