SCHEDULE OF COLUMN (Fe-500, M=30)

GROUP MKD.	COLUMN MKD.	SIZE OF COLUMN WITH REINFORCEMENTS (MAIN BAR & LINKS)	C/S OF COLUMN	LINKS DETAILS
I	C1,C12,C14,C30,C35,C41,C42,C47 (8 NOS.)	SIZE : (300X450) MAIN BAR: 10-16	450 / 300	NEAR JUNCTION (UPTO 3d) LENGTH LINKS: 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,C13,C15,C19,C21,C24,C25,C28,C33,C36,C37,C40,C43,C44,C45,C46 (18 NOS.)	SIZE : (300X450) MAIN BAR: 4-20 + 6-16	450 / 300 / 2-20 / 3-20	NEAR JUNCTION (UPTO 3d) 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	C8,C9,C10,C11,C18,C22,C23,C26,C30,C32,C34,C38,C39 (13 NOS.)	SIZE : (300X450) MAIN BAR: 10-20	450 / 300	NEAR JUNCTION (UPTO 3d) 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	C2,C3,C9,C16,C17,C26,C27,C31 (8 NOS.)	SIZE : (300X450) MAIN BAR: 12-20	450 / 300	NEAR JUNCTION (UPTO 3d) 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=30)

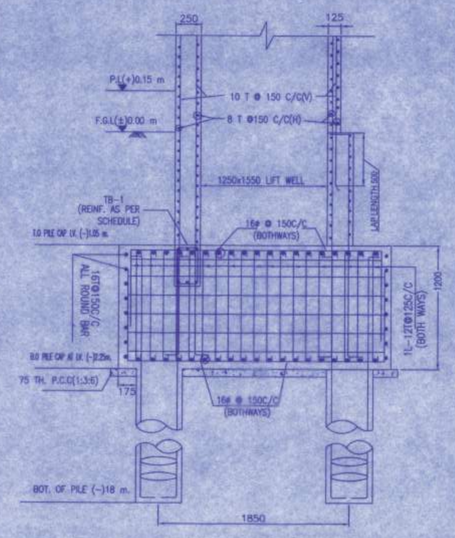
BEAM MKD.	SIZE (mm)	REINFORCEMENT DETAILS AT SUPPORT			REINFORCEMENT DETAILS AT MID SPAN		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
B1	250X450	3-16T (A.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-12T (E.B)	2L - 8T @150 C/C
B2	250X450	3-16T (A.T) 2-12T (E.T)	3-16T (A.T)	2L - 8T @75 C/C	3-16T (A.T)	3-16T (A.T) 2-12T (E.B)	2L - 6T @125 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 @75 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 - 6T @125 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)	3-16T (A.T)	2L - 8T @75 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 @125 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)	2L - 8T @75 C/C
B5	250X450	3-16T (A.T) 2-12T (A.T)	3-16T (A.T) 2-12T (A.T)	2L - 8T @75 C/C	3-16T (A.T) 2-12T (A.T)	3-16T (A.T) 2-12T (A.T)	2L - 8T @125 C/C
B5A	250X450	3-16T (A.T) 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) 3-16T (A.T)	2L - 8T @125 C/C
B6	250X450	3-20T (A.T) 2-20T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T) 2-20T (E.B)	2L - 8T @125 C/C
B6A	250X450	3-20T (A.T) 2-16T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T)	2L - 8T @125 C/C
B7	250X450	3-20T (A.T) 3-20T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T) 3-20T (E.B)	2L - 8T @125 C/C
B7A	250X450	3-20T (A.T) 3-20T (A.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T) 3-20T (A.T)	3-20T (A.T)	2L - 8T @125 C/C
B7B	250X450	3-20T (A.T) 3-20T (E.T)	3-20T (A.T)	2L - 8T @75 C/C	3-20T (A.T)	3-20T (A.T)	2L - 8T @125 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
T.B.-1	250X400	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C	3-16T (A.T)	3-16T (A.T)	2L - 8T @150 C/C
T.B.-2	250X400	3-16T (A.T) 2-12T (A.T)	3-16T (A.T) 2-12T (A.T)	2L - 8T @150 C/C	3-16T (A.T) 2-12T (A.T)	3-16T (A.T) 2-12T (A.T)	2L - 8T @150 C/C
T.B.-3	250X400	3-16T (A.T) 3-16T (A.T)	3-16T (A.T) 3-16T (A.T)	2L - 8T @150 C/C	3-16T (A.T) 2-16T (A.T)	3-16T (A.T) 2-16T (A.T)	2L - 8T @150 C/C

SCHEDULE OF PILE CAP (Fe-500, M=30)

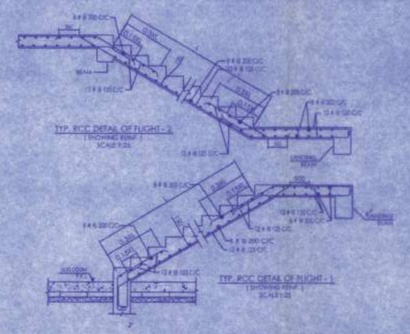
PILE CAP MKD.	PILE CAP SIZE (mm)	NO OF PILE	DEPTH OF PILE CAP (mm)	REINFORCEMENT				SHEAR REINF.
				BOT. REINF. (SHORT)	BOT. REINF. (LONG)	TOP REINF. (SHORT)	TOP REINF. (LONG)	
PC-1	2150X800	2	750	16T @ 150 C/C	16T @ 150 C/C	—	12T @ 150 C/C	2L-10T @ 150 C/C
PC-2	AS DISPLAYED	3	800	16T @ 125 C/C	16T @ 150 C/C	12T @ 125 C/C	12T @ 150 C/C	—
PC-3	2150X2150	4	800	16T @ 175 C/C	16T @ 175 C/C	12T @ 175 C/C	12T @ 175 C/C	—
PC-4	3500X2150	5	900	16T @ 125 C/C	16T @ 150 C/C	16T @ 125 C/C	16T @ 150 C/C	—
PC-5	3150X4400	8	1200	16T @ 125 C/C	16T @ 125 C/C	16T @ 125 C/C	16T @ 125 C/C	—
PC-6 (LIFT)	4850X2650	8	1200	16T @ 150 C/C	16T @ 150 C/C	16T @ 150 C/C	16T @ 150 C/C	—

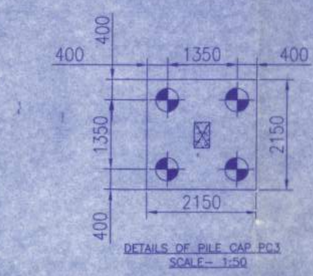
SCHEDULE OF SLAB (Fe-500, M=30)

SLAB MKD.	THICK. (mm.)	SHORT SPAN REINFORCEMENT DETAILS		LONG SPAN REINFORCEMENT DETAILS	
		SPAN	SUPPORT	SPAN	SUPPORT
S1	125	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 @150 C/C + 10 @ @ 150 (C/C) (ALT) (TOP) (BOTTOM)	8T @150 C/C (TOP & BOTTOM)	8T @150 C/C + 10 @ @ 150 (C/C) (ALT) (TOP) (BOTTOM)	8T @150 C/C (TOP & BOTTOM)

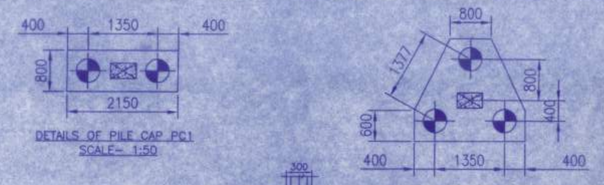


TYPICAL SECTIONAL DETAILS OF PILE CAP (PC6)
SCALE-1:25



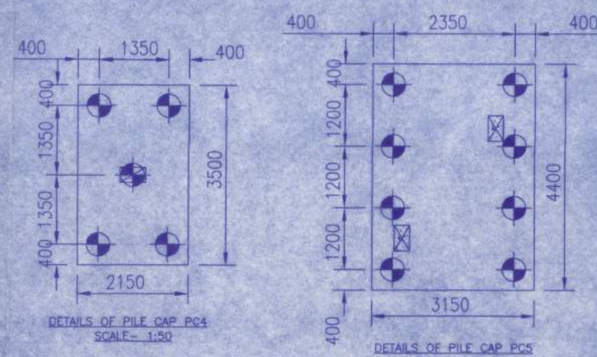


DETAILS OF PILE CAP PC3
SCALE- 1:50



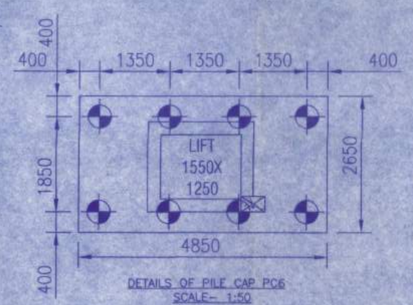
DETAILS OF PILE CAP PC1
SCALE- 1:50

DETAILS OF PILE CAP PC2
SCALE- 1:50

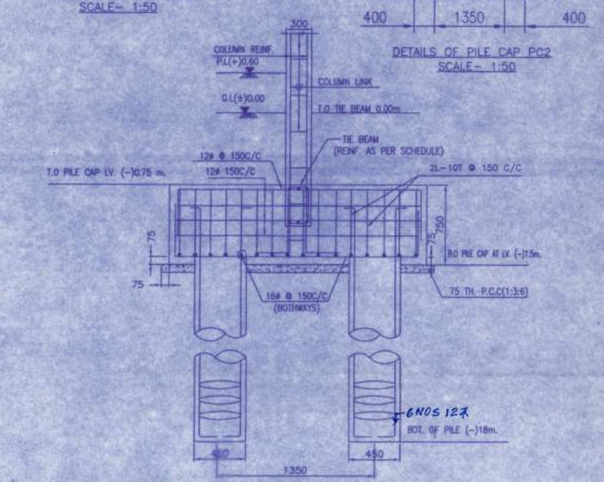


DETAILS OF PILE CAP PC4
SCALE- 1:50

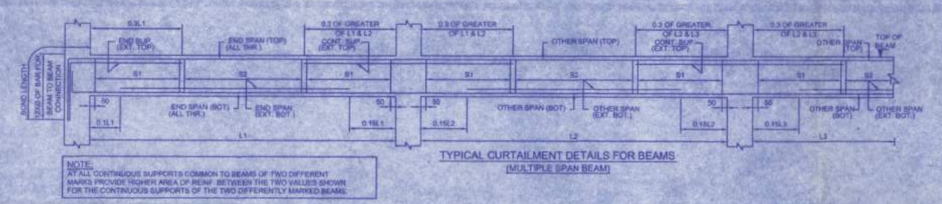
DETAILS OF PILE CAP PC5
SCALE- 1:50



DETAILS OF PILE CAP PC6
SCALE- 1:50

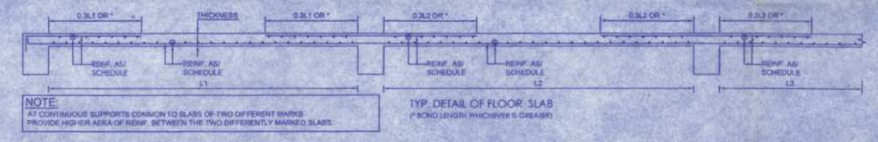


TYPICAL SECTIONAL DETAILS OF PILE CAP (PC1)
SCALE-1:25



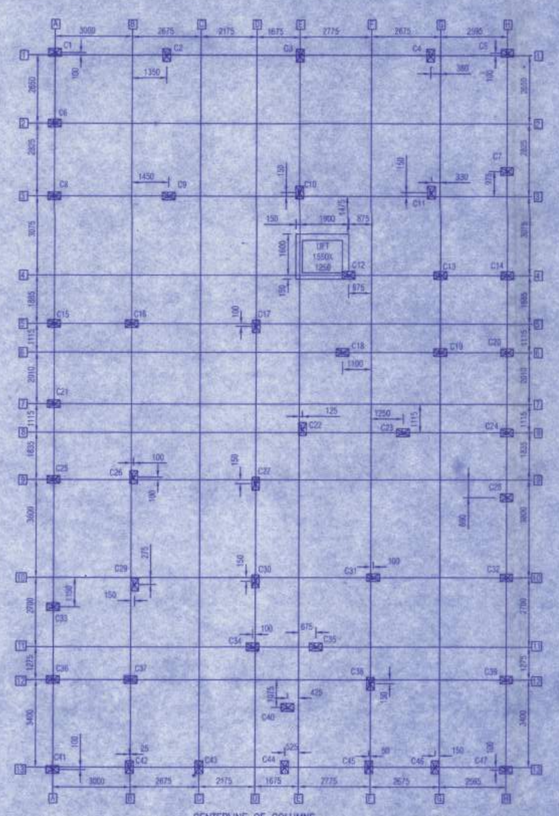
NOTE:
AT ALL CONTINUOUS SUPPORTS COMMON TO BEAMS OF TWO DIFFERENT MARKS PROVIDE HIGHER AREA OF REINF. BETWEEN THE TWO VALUES SHOWN FOR THE CONTINUOUS SUPPORTS OF THE TWO DIFFERENTLY MARKED BEAMS.

TYPICAL CURTAILMENT DETAILS FOR BEAMS
(MULTIPLE SPAN BEAM)

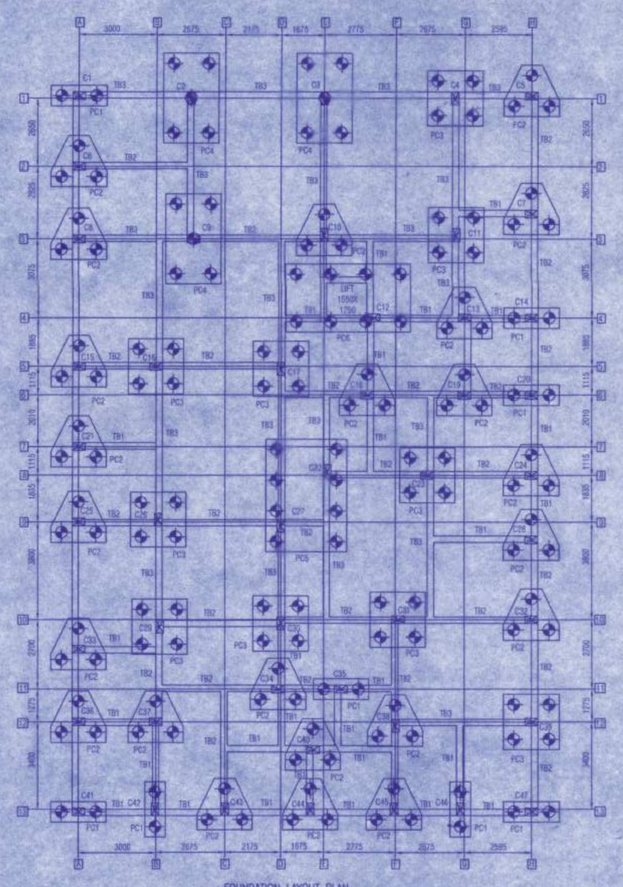


NOTE:
AT CONTINUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS PROVIDE HIGHER AREA OF REINF. BETWEEN THE TWO DIFFERENTLY MARKED SLABS.

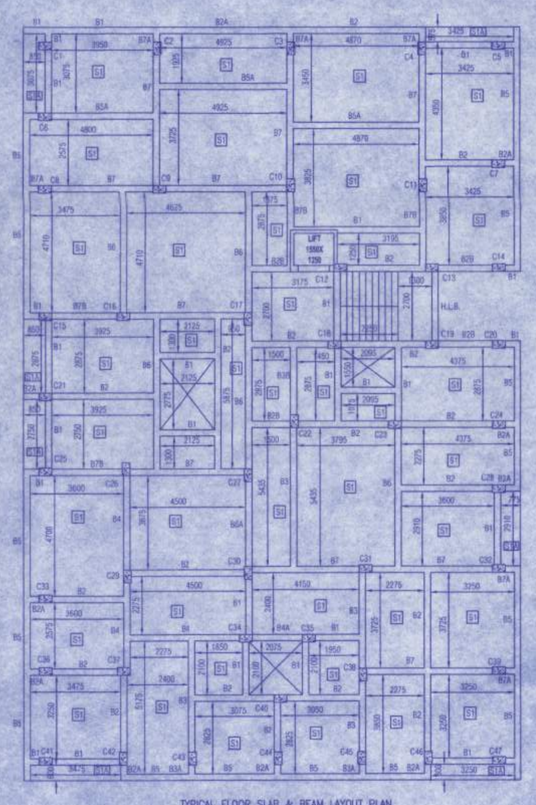
TYP. DETAIL OF FLOOR SLAB
(* ACTUAL LENGTH WHICHEVER IS GREATER)



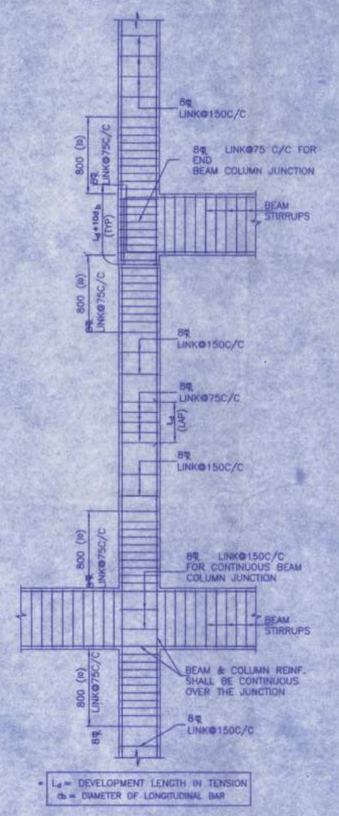
CENTERLINE OF COLUMNS
SCALE - 1:100



FOUNDATION LAYOUT PLAN
SCALE - 1:100
TOTAL NO OF PILE- 156



TYPICAL FLOOR SLAB & BEAM LAYOUT PLAN
SCALE - 1:100



TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25

PROPOSED PLAN FOR G+IV STORIED RESIDENTIAL BUILDING OF AT MOUZA- BHATENDA, J.L. NO.- 28, R.S. NO. - 50, R.S. & L.R. DAG NO.-261/815 & 261/817 (P), L.R. KHATIAN NO.-67, 4889, 4914, 5578, 5579, 5580 & 5581, P.S.-RAJARHAT, DIST - 24 PGS. (N), UNDER RAJARHAT BISHNUPUR 1 NO. GRAM PANCHAYET.

DEVELOPED BY :- VRISA CONSTRUCTION PVT. LTD.

SPECIFICATION:
1) ALL DIMENSIONS ARE IN MM. UNLESS SPECIFIED
2) GRADE OF CONCRETE - M30
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
9) DRAWING SCALES - 1 : 100, 1:50, 1 : 25
10) ALL DIMENSIONS SHOULD BE CHECKED AT SITE A.T - ALL THROUGH ET - EXTRA TOP
10) THIS DRAWING IS A PRIVATE & CONFIDENTIAL NOT BE COPIED OR CHANGED WITHOUT THEIR CONSENT

CERTIFICATE OF OWNER

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

VRISA CONSTRUCTION PVT. LTD.
Managing Director

SIGNATURE OF OWNER

CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT HAVE BEEN PREPARED BY ME CONFORMING WITH THE PROVISION OF NEW TOWN KOLKATA PLANNING AREA (BUILDING) RULES, 2010 AND THAT NO INDIRECT INFORMATION HAS BEEN GIVEN OR OBTAINED BY ME INCLUDING AREA CALCULATION SHEETS IN THIS DRAWING & NO VIOLATION OF THE PROVISION OF SWDE RULES WILL BE FOUND IN ANY OF THE DRAWINGS & DOCUMENTS SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

Aniruddha Das
ANIRUDDHA DAS
Registered Architect
Reg. No. CA/1001 / 13017

SIG. OF ARCHITECT

CERTIFICATE OF ENGINEER

CERTIFY THAT THE STRUCTURAL DRAWINGS & DESIGN OF THE FOUNDATION & SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT (AS PER THESE RULES, REGULATIONS & CODE MADE & ALSO CONSIDERING ALL THE POSSIBLE LIVE & DEAD LOAD & THE SOIL PROPERTIES & ACCORDING TO PROVISIONS OF IS & NBC & NATIONAL BUILDING CODE OF INDIA STANDARD & NATIONAL BUILDING CODE OF INDIA & CERTIFY THAT IT IS SAFE & STABLE IN ALL RESPECT OF TO ANY ATTACK & THESE PROVISION SHALL BE ADHERED TO DURING THE CONSTRUCTION.

Abhiratanu Dhar.
Abhiratanu Dhar
Structural Engineer
34 Sech Bhawan Pt & Sech Bhawan
Reg. Dalna BECIL KMC
WBFEE(Ad)/A/00/0026
C/FEE/KT(Ad)/A/00/0079

SIG. 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 APPROPRIATE DEPTH THAT HAS BEEN PROPOSED IN THE GEOTECHNICAL REPORT.

S. K. Mandal
B.E.(Civil), M.I.E., M.I.G.S.-LM/37042
L.B.S.-Class-II (K.M.C.), IGSE-II
Consulting Chartered Engineer
Structural Chartered Engineer
Structural & Geo-Technical
E/02-0209, LBS-112005
Reg. No. - 2/2/2/2/2/2/2
And SGE-(M)/CL-T/2004
Recommended by MRTP, Govt. of W.B.

SIG. OF GEOTECHNICAL ENGINEER

VETTED
Dipesh Majumder
Dr. Dipesh Majumdar
M. (RE Structure), PhD
Assistant Professor
Department of Construction Engineering
Jadavpur University

SIG. OF PROFESSOR

TITLE:
CENTER LINE OF COLUMN, FLOOR SLAB AND BEAM LAYOUT & SCHEDULE, DETAILS OF PILE FOUNDATION, COLUMN LONG AND CROSS SECTIONAL DETAILS.

S E W N

CONSULTANT:
DESIGN CRAFT CONSULTANTS

DRAWING NO : STRUC/01	REVISION NO : 00/00
DRAWN BY : MILLY SAHA	
CHECKED BY : ABHIRATANU DHAR	