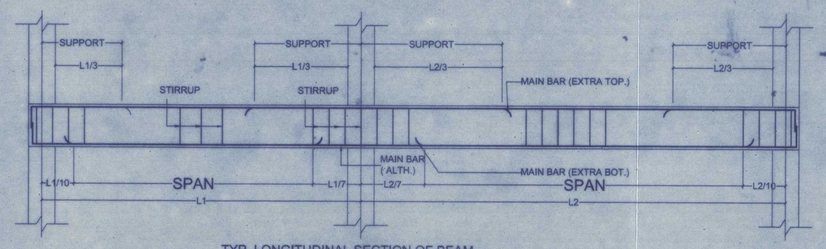
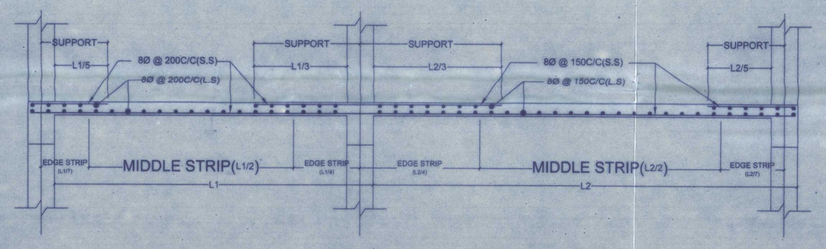
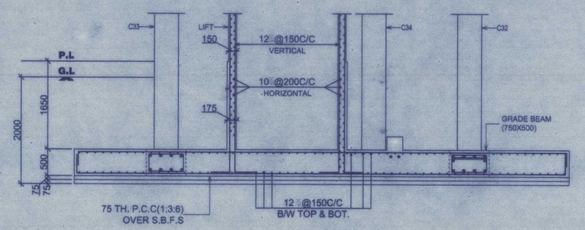


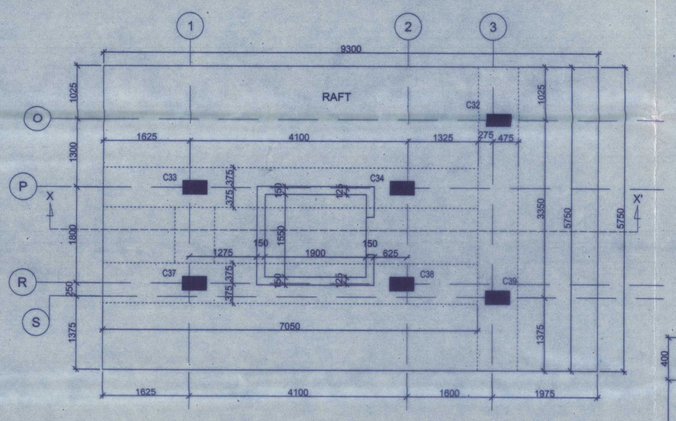
TYP. LONGITUDINAL SECTION OF BEAM



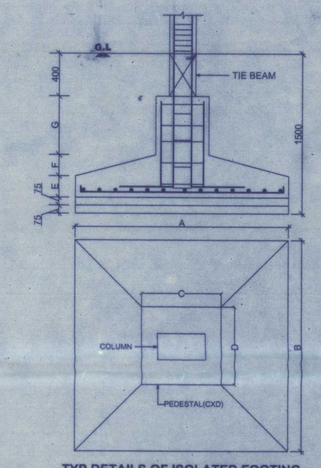
TYP. LONGITUDINAL SECTION OF SLAB



SECTION XX'

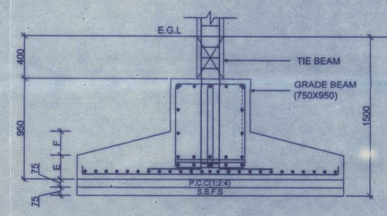


DETAILS OF RAFT FOOTING & LIFT



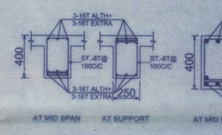
TYP.DETAILS OF ISOLATED FOOTING

(Scale-1:25)



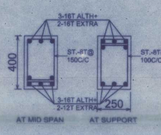
TYPICAL CROSS SECTION OF COMBINED FOOTING

(SCALE-1:25)



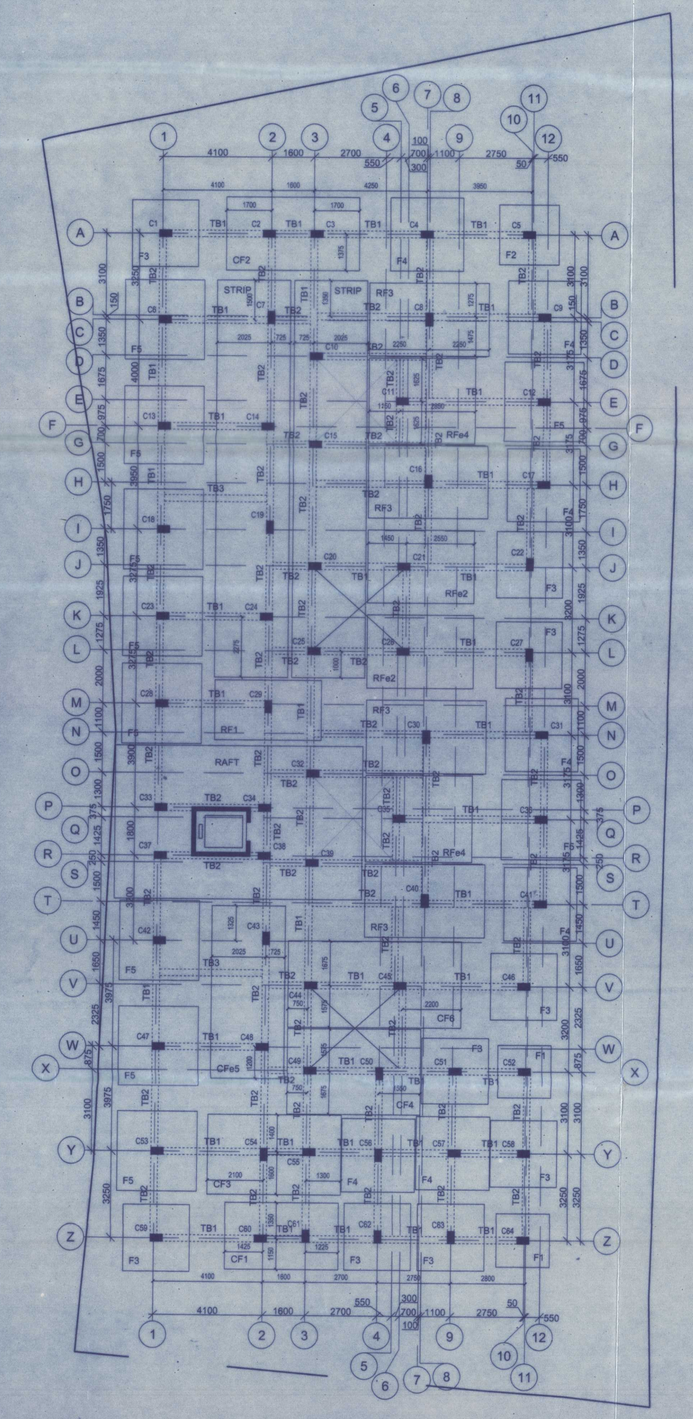
DETAILS OF FLOOR BEAM

(FB1) Scale -1:25

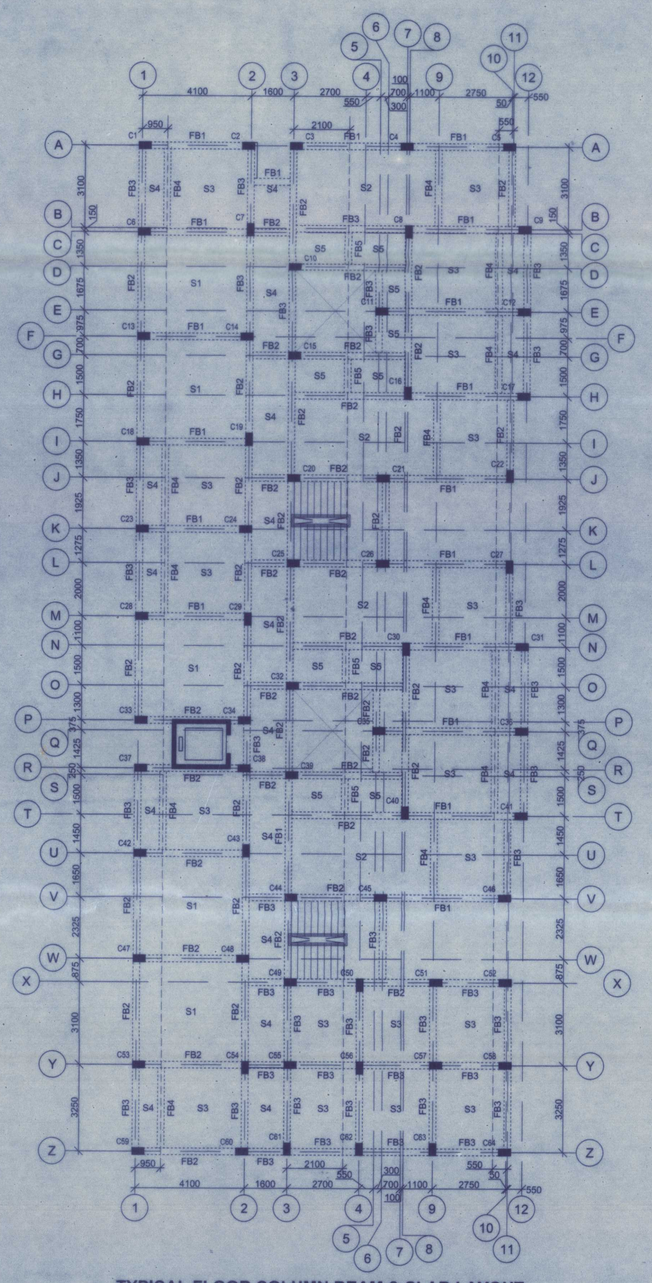


DETAILS OF TIE-BEAM

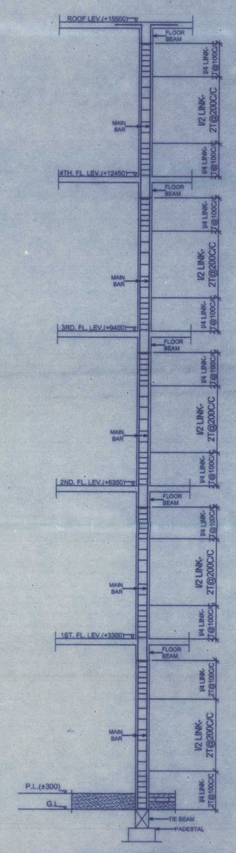
(TB1) Scale -1:25



FOUNDATION,COLUMN & TIE-BEAM LAYOUT



TYPICAL FLOOR COLUMN,BEAM & SLAB LAYOUT



TYPICAL LONGITUDINAL SECTION OF COLUMN

SCHEDULE OF ISOLATED SQUARE FOOTING

FOOTING MARK	A	B	C	D	E	F	FOOTING REINFORCEMENT	G	PEDESTAL REINFORCEMENT	LATERAL TIES
F1	2000	2000	750	750	200	200	12T@ 200 C/C	550	12-12T	2L 8T @ 200 C/C
F2	2250	2250	750	750	250	200	12T@ 175 C/C	500	12-12T	2L 8T @ 200 C/C
F3	2500	2500	750	750	250	250	12T@ 150 C/C	450	12-12T	2L 8T @ 200 C/C
F4	2750	2750	750	750	300	250	12T@ 125 C/C	400	12-12T	3L 8T @ 200 C/C
F5	3000	3000	750	750	300	300	12T@ 100 C/C	350	12-12T	3L 8T @ 200 C/C
F6	3250	3250	750	750	350	300	12T@ 75 C/C	300	12-12T	3L 8T @ 200 C/C

SCHEDULE OF ISOLATED RECTANGULAR FOOTING

FOOTING MARK	A	B	C	D	E	F	FOOTING REINFORCEMENT	G	PEDESTAL REINFORCEMENT	LATERAL TIES
RF1	4000	2250	900	750	350	200	LONG-12T@ 125 C/C SHORT-12T@ 200 C/C	400	12-12T	2L 8T @ 200 C/C
RFe2	4000	2750	900	750	350	250	LONG-12T@ 125 C/C SHORT-12T@ 200 C/C	350	12-12T	2L 8T @ 200 C/C
RF3	4500	2250	900	750	400	250	LONG-12T@ 100 C/C SHORT-12T@ 200 C/C	300	12-12T	2L 8T @ 200 C/C
RFe4	4000	3250	900	750	350	300	LONG-12T@ 125 C/C SHORT-12T@ 150 C/C	300	12-12T	2L 8T @ 200 C/C

SCHEDULE OF COMBINED FOOTING

FOOTING MARK	FOOTING SIZE								REINFORCEMENT FOR SLAB	REINFORCEMENT FOR BEAM					
	SLAB				BEAM					BOTTOM		TOP		SIDE (EACH)	STIRRUPS
	A	B	E	F	Wb	Db	Lb			SUPPORT	SPAN	SUPPORT	SPAN		
CF1	4250	2500	250	250	750	950	4250		12T@ 150 C/C Dist.-8T@200c/c	6-20T	4-20T	4-20T	4-20T	2-12T	2L10T@125 C/C
CF2	5000	2750	300	250	750	950	5000		12T@ 125 C/C Dist.-8T@200c/c	6-20T	4-20T	4-20T	4-20T	2-12T	2L10T@100 C/C
CF3	5000	3000	300	300	750	950	5000		12T@ 100 C/C Dist.-8T@200c/c	7-20T	4-20T	4-20T	4-20T	2-12T	2L10T@125 C/C
CF4	5000	3250	350	300	750	950	5000		12T@ 75 C/C Dist.-8T@200c/c	7-20T	4-20T	4-20T	4-20T	2-12T	2L10T@150 C/C
CFe5	6500	2750	300	250	750	950	6500		12T@ 125 C/C Dist.-8T@200c/c	8-20T	4-20T	4-20T	6-20T	2-12T	2L10T@150 C/C
CF6	6500	3250	350	300	750	950	6500		12T@ 75 C/C Dist.-8T@200c/c	8-20T	4-20T	4-20T	4-20T	2-12T	2L10T@150 C/C

SCHEDULE OF COMBINED-STRIP-RAFT FOOTING

FOOTING MARK	FOOTING SIZE								REINFORCEMENT FOR SLAB	REINFORCEMENT FOR BEAM					
	SLAB				BEAM					BOTTOM		TOP		SIDE (EACH)	STIRRUPS
	A	B	E	F	Wb	Db	Lb			SUPPORT	SPAN	SUPPORT	SPAN		
STRIP	15000	2750	300	250	750	950	15000		12T@ 125 C/C Dist.-8T@200c/c	8-20T	4-20T	6-20T	2-12T	2L10T@100 C/C	
RAFT	9300	5750	500	500	750	500		7050 & 5750	12T@ 150 C/C B/W TOP & BOT.	8-20T	4-20T	6-20T	2-12T	2L10T@100 C/C	

SCHEDULE OF COLUMN

COL. MKD	COL. SIZE	REINFORCEMENT		LINKS	REINFORCEMENT ARRANGEMENT	SPACING OF LINKS
		UPTO 2nd.Fl.	ABOVE 2nd.Fl.			
C1,C5,C22, C24,C27,C28, C29,C43,C46, C47-C52, C53-C56, C59-C64.	250X450	8-16T	8-16T	2L-8T (TWO SET IN EACH LAYER)	250 450	At l/4 from support 8T@ 100C/C & remaining l/2 8T@ 175C/C
C4,C8,C7,C9, C10,C13,C14, C17,C18,C19, C20,C21,C23, C25,C26,C31, C33,C34,C37, C38,C41,C42, C44,C45.	250X400	8-20T	8-16T	2L-8T (TWO SET IN EACH LAYER)	250 450	
C2,C3,C6,C11, C12,C15,C16, C30,C32,C35, C36,C39,C40.	250X400	12-20T	12-16T	2L-8T (TWO LINK IN EACH LAYER)	250 450	

SCHEDULE OF TIE BEAM & FLOOR BEAM

MKD.	SIZE	REINFORCEMENT DETAILS					
		SUPPORT			SPAN		
		TOP	BOTTOM	STIRRUP	TOP	BOTTOM	STIRRUP
TB1	250X400	3-16T(ALTH)+ 2-16T(EXT.)	3-16T(ALTH)	2L-8T @ 100C/C	3-16T(ALTH)	3-16T(ALTH)+ 2-12T(EXT.)	2L-8T @ 150 C/C
TB2	250X400	2-16T(ALTH)+ 2-12T(EXT.)	2-16T(ALTH)	2L-8T @ 100C/C	2-16T(ALTH)	2-16T(ALTH)+ 2-10T(EXT.)	2L-8T @ 150 C/C
TB3	250X400	3-12T(ALTH)	3-12T(ALTH)	2L-8T @ 125C/C	3-12T(ALTH)	3-12T(ALTH)	2L-8T @ 150 C/C
FB1	250X400	3-16T(ALTH)+ 3-20T(EXT.)	3-16T(ALTH)	2L-8T @ 100C/C	3-16T(ALTH)	3-16T(ALTH)+ 3-16T(EXT.)	2L-8T @ 150 C/C
FB2	250X400	3-16T(ALTH)+ 3-12T(EXT.)	3-16T(ALTH)	2L-8T @ 100C/C	3-16T(ALTH)	3-16T(ALTH)+ 3-10T(EXT.)	2L-8T @ 150 C/C
FB3	250X400	2-16T(ALTH)+ 2-16T(EXT.)	4-12T(ALTH)	2L-8T @ 100C/C	2-16T(ALTH)	4-12T(ALTH)	2L-8T @ 150 C/C
FB4	250X400	3-12T(ALTH)	3-12T(ALTH)	2L-8T @ 150C/C	3-12T(ALTH)	3-12T(ALTH)	2L-8T @ 200 C/C
FB5	250X400	2-12T(ALTH)	2-12T(ALTH)	2L-8T @ 200C/C	2-12T(ALTH)	2-12T(ALTH)	2L-8T @ 200 C/C

SCHEDULE OF SLAB

MKD.	THICKNESS	REINFORCEMENT DETAILS			
		SHORTER DIRECTION		LONGER DIRECTION	
		SUPPORT(TOP)	SPAN(BOTTOM)	SUPPORT(TOP)	SPAN(BOTTOM)
S1	120	8 ϕ @ 150 C/C	8 ϕ @ 150 C/C	8 ϕ @ 150 C/C	8 ϕ @ 150 C/C
S2	120	8 ϕ @ 150 C/C	8 ϕ @ 150 C/C	8 ϕ @ 200 C/C	8 ϕ @ 200 C/C
S3	120	8 ϕ @ 200 C/C	8 ϕ @ 200 C/C	8 ϕ @ 200 C/C	8 ϕ @ 200 C/C
S4 (ONE WAY)	120	MAIN BAR - 8 T @ 150 C/C (TOP & BOT.)		DISTRIBUTER - 8 ϕ @ 300 C/C	
S5 (ONE WAY)	120	MAIN BAR - 8 T @ 200 C/C (TOP & BOT.)		DISTRIBUTER - 8 ϕ @ 300 C/C	
STAIR	135	MAIN BAR - 10 ϕ @ 125 C/C		DISTRIBUTER - 8 ϕ @ 200 C/C	

DETAILS SPECIFICATION OF BUILDING.

** FOR R.C.C. WORKS, GRADE OF CONCRETE SHALL BE M 20 IF NOT INDICATED OTHERWISE AND STEEL SHALL BE HYSD BARS OF Fe - 500 GRADE CONFORMING TO THE RELEVANT I.S. CODES.
** CLEAR COVER TO MAIN REINFORCEMENTS SHALL BE AS UNDER:
# R.C.C. SLAB : 20 MM (TOP,BOTTOM & SIDE)
# R.C.C. BEAM : 30 MM (TOP,BOTTOM & SIDE)
# R.C.C. COLUMN : 40 MM (TOP,BOTTOM & SIDE)
# R.C.C. COLUMN FOUNDATION : 50 MM (TOP,BOTTOM & SIDE)
** LAPS, SPLICES & BOND LENGTH SHOULD BE 50D, WHERE D IS THE DIA. OF LARGEST BAR.
** ALL DISTRIBUTION BARS ARE 8 ϕ 250 C/C AND TO BE PROVIDED.
** ALL CHAIRS ARE 10 AND TO BE PROVIDED WHEREVER REQUIRED.
**ALL SPACER BARS ARE 25 ϕ 300 C/C AND TO BE PROVIDED.
**FOUNDATION & PLINTH : BRICKWORK IN FOUNDATION & PLINTH SHALL BE OF 1ST CLASSBRICK IN 1:6 CEMENT MORTAR.
** CONSTRUCTION MATERIALS AND CONSTRUCTION TECHNIQUES SHALL BE STRICTLY AS PER THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF INDIA & RELEVANT I.S CODE OF PRACTICE.
** BEARING CAPACITY OF SOIL IS CONSIDERED AS PER SOIL INVESTIGATION REPORT.
** ANY AMBIGUITY IN THE DRAWINGS SHOULD BE IMMIDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMENCING.
** THIS DRAWING IS TO BE READ ALONG WITH ALL RELEVANT ARCHITECTURAL DRAWINGS.
** ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE MENTIONED.

I DO HEREBY CERTIFY THAT PLANS , ELEVATION & SECTION & STRUCTURAL DETAILS OF PROPOSED G+4(15.500M.) STORIED RESIDENTIAL BUILDING AT ELACHI CHAKRABORTY PARA ROAD, HOLDING NO.-77, R.S. DAG NO.- 2115 & 2116, L.R. DAG NO.-2160 & 2161, R.S. KHATIAN NO.-394, L.R. KHATIAN NO.-2862 & 2863(OLD), 2915(NEW), J.L. NO.-70, MOUZA-ELACHI, P.S.- SONARPUR, DIST.-SOUTH 24 PARGANAS UNDER RAJPUR- SONARPUR MUNICIPALITY. HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVANT PROVISIONS UNDER THE WEST BENGAL MUNICIPAL (BUILDING)RULE ,2007 THIS IS ALSO TO CERTIFY THAT ALL RELEVANT NOC'S FOR THE RESPECTIVE AUTHORITIES SUCH AS WBF & ES , AAI, PCB, MICROWAVE ETC. AS APPLICABLE IN THIS REGARD , ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT OF THE SAID PROJECT .

INDRANIL BASU
(IS/IP/SONIEB/A/2013-14)

SIGNATURE OF ARCHITECT

I DO HEREBY CERTIFY THAT FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION G+4(15.500M.) STORIED RESIDENTIAL BUILDING AT ELACHI CHAKRABORTY PARA ROAD, HOLDING NO.-77, R.S. DAG NO.- 2115 & 2116, L.R. DAG NO.-2160 & 2161, R.S. KHATIAN NO.-394, L.R. KHATIAN NO.-2862 & 2863(OLD), 2915(NEW), J.L. NO.-70, MOUZA-ELACHI, P.S.- SONARPUR, DIST.-SOUTH 24 PARGANAS UNDER RAJPUR-SONARPUR MUNICIPALITY. HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME THAT THE FOUNDATION AND THE SUPERSTRUCTURE ARE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS. CONFORMING TO STIPULATIONS OF ALL IS CODES OF PRACTICE AND NATIONAL BUILDING CODE.

ARUP KUMAR GHOSH
BCE, PGDBM, C ENG.(I) FIE
CHARTERED ENGINEER
E.E.R. -CIARB-
EMPANNELED NO:-
136/RJPSON/EER/2019-20

SIGNATURE OF STRUCTURAL ENGINEER

I DO HEREBY CERTIFY THAT FOUNDATION AND SUERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION G+4(15.500M.) STORIED RESIDENTIAL BUILDING AT ELACHI CHAKRABORTY PARA ROAD, HOLDING NO.-77, R.S. DAG NO.- 2115 & 2116, L.R. DAG NO.-2160 & 2161, R.S. KHATIAN NO.-394, L.R. KHATIAN NO.-2862 & 2863(OLD), 2915(NEW), J.L. NO.-70, MOUZA-ELACHI, P.S.- SONARPUR, DIST.-SOUTH 24 PARGANAS UNDER RAJPUR- SONARPUR MUNICIPALITY. HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME THAT THE FOUNDATION AND THE SUPERSTRUCTURE ARE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, CONFORMING TO STIPULATIONS OF ALL IS CODES OF PRACTICE AND NATIONAL BUILDING CODE.

DR. SANTOSH KUMAR CHAKRABORTY
B.C.E. ME. (Soils, Roorkee)
P.H.D (Foundation Engineering)
I.S.T.E,I.G.S, I.S.M.F.E (London)
The Kolkata Municipal Corporation
License no. GT/16/1
Consulting Geotechnical Engineer

SIGNATURE OF GEO -TECHNICAL ENGINEER

For MAYFAIR ASHIANA PVT. LTD.
Director

SIGNATURE OF OWNER

CLIENT-

MAYFAIR ASHIANA PVT. LTD.

STRUCTURAL CONSULTANT

Techno Consultant
13, Deb Lane, Entally, Kolkata-14.
E-mail: arupghoshkumar@gmail.com

ARCHITECT

NEST Design & Consultancy
ARCHITECTURE I LANDSCAPE I INTERIOR
26A, Elgin Road, Kolkata 700020
email : design.nest@gmail.com

SHEET TITLE

STRUCTURAL SANCTION DRAWING

DRAWING TITLE

FOUNDATION-COLUMN-TIE BEAM LAYOUT, SLAB-BEAM LAYOUT, STAIR CASE DETAILS, MISC. DETAILS, MISC. SCHEDULE .

DWG. NO. - NESTSANCIELCISTRUC/01
SANCTION DRAWING
DATE - 26.12.19
DRAWN BY - SUBHA
PATH - D:\WKP\PERDWG\MISC\NEST

NORTH DIRECTION

PROJECT TITLE

PROPOSED G+4 (15.500M.) STORIED RESIDENTIAL BUILDING AT ELACHI CHAKRABORTY PARA ROAD, HOLDING NO.-77, R.S. DAG NO.- 2115 & 2116, L.R. DAG NO.-2160 & 2161, R.S. KHATIAN NO.- 394, L.R. KHATIAN NO.-2862 & 2863(OLD), 2915(NEW), J.L. NO.-70, MOUZA - ELACHI,WARD NO. - 26 P.S.- SONARPUR, DIST.-SOUTH 24 PARGANAS, UNDER RAJPUR- SONARPUR MUNICIPALITY.

FOR OFFICE USE ONLY

Structural plan as submitted by the structural Engineer have been kept with Building Plan No.- 292/23/26/20 Dated On- 14/12/2020 for record of the Rajpur-Sonarpur Municipality without Verification No. deviation from the submitting structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form necessary steps should be taken for the safety of the adjoining premises public private properties and safety of human life during Construction

14/12/2020
Sig. of Assistant Engineer.
Incharge P.W.D
RAJPUR-SONARPUR MUNICIPALITY