

**STRUCTURAL PLAN OF PROPOSED G+4 STORIED RESIDENTIAL BUILDING OF CHATTERJEE CONSTRUCTION AT MOUZA - SONARPUR, J.L NO.- 39, C.S DAG NOS.- 1525, 1526, 1538, R.S DAG NOS.- 1525, 1526, 1540, C.S KHATIAN NO.- 783, R.S KHATIAN NO.- 887, HOLDING NO.- 152 A.P NAGAR (PURBA), WARD NO.- 12, UNDER RAJPUR - SONARPUR MUNICIPALITY, P.S - SONARPUR, DIST.- SOUTH 24 PARGANAS, KOLKATA - 700150.**

**GENERAL NOTES AND SPECIFICATIONS :**

- UNLESS OR OTHERWISE MENTIONED ALL DIMENSIONS ARE IN MILLIMETRES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWING.
- ALL R.C.C WORK WILL BE WITH REINFORCEMENT BARS OF Fe415 (TOR STEEL) CATEGORY.
- ALL R.C.C WORK WILL BE M - 20 GRADE IN 1:1.5:3 MIX.
- PROPER ANCHORAGES AND DEVELOPMENT LENGTHS WILL BE PROVIDED TO REINFORCEMENT BARS WHERE REQUIRED.
- NECESSARY CLEAR CONCRETE COVERS TO REINFORCEMENT BARS WILL BE PROVIDED AS PER N.B CODES.

**CHATTERJEE CONSTRUCTION**

*Sri Anup Chatterjee*  
Proprietor

*Kallol Kr Ghoshal*  
Kallol Kr. Ghoshal B.E. (Civil), MIE  
Geo Technical Engineer  
Empangment No.:  
028/RJPSON/G.T./2019-2020

CHATTERJEE CONSTRUCTION PROPRIETOR :  
SRI ANUP CHATTERJEE  
NATUNPALLY, P.O+P.S - SONARPUR  
DIST.- SOUTH 24 PARGANAS  
KOLKATA - 700150

SIGNATURE OF GEOTECH

SIGNATURE OF OWNER



SCALE :  
1:100  
1:50  
1:600

SHEET NO.- 1 (OF 2)  
ARCHITECTURAL SHEET  
FOR STRUCTURAL SEE  
SHEET NO.- 2 (OF 2)

**CORRECTED**  
*E.B.S. (I)*  
E.B.S. (I). LIC NO. 677  
DATE.....

*Jit Chakraborty*  
B.TECH (CIVIL) M.E (INDIA)  
E.B.S. (CLASS-II) LIC NO. 677  
RAJPUR SONARPUR MUNICIPALITY  
L.B.S. (CLASS-I) LIC NO. 1433  
KOLKATA MUNICIPAL CORPORATION

SIGNATURE OF E.B.S

**SREJAN**  
CIVIL ENGINEERS AND CONSULTANT

DESHBANDHUPARK  
SONARPUR, CL-150  
(NEAR AMANTRANI SANGSAD PLAYGROUND)  
PH NO. 033-6415-7183/04335-43718



*Jit Chakraborty*  
B.TECH (CIVIL) M.E (INDIA)  
EMANELLED STRUCTURAL ENGINEER  
E.S.E. KOLKATA MUNICIPAL CORPORATION  
L.I.C NO. 506  
E.S.E. RAJPUR SONARPUR MUNICIPALITY  
L.I.C NO. 95

SIGNATURE OF E.S.E

REFERENCE NO.- 06/2021/REV.01/04/2022

DRAWING NO.- 439/SR/352

SIGNATURE OF S.A.E

PLEASE USE ONLY.



Structural plan as submitted by the structural Engineer have been kept with Building Plan No. 08/09/12/15 Dated On: 30/04/2022 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 with design calculation and stability certificate in the prescribed form no. steps should be taken for the safety of the adjoining premises public private properties and safety of human life during Construction

*Molay Ghosh*  
29/04/22  
Sig. of Assistant Engineer.  
Incharge P.W.D  
RAJPUR-SONARPUR MUNICIPALITY





SECTIONAL ELEVATION OF R.C. FLOOR BEAMS

SCHEDULE OF R.C. COLUMNS

COLUMN ID	NOTE	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO
C1	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C2	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C3	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C4	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C5	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C6	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C7	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C8	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C9	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C10	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100

SCHEDULE OF ISOLATED COLUMN FOOTINGS

COLUMN ID	NOTE	AREA OF BASE SLAB	PERF. DIMENSION OF BASE SLAB	PERF. DIMENSION OF COLUMN	PERF. DIMENSION OF FOOTING	PERF. DIMENSION OF COLUMN	PERF. DIMENSION OF FOOTING	
C1	10000	2500X400	17.8	100	17.8	100	17.8	100
C2	10000	2500X400	17.8	100	17.8	100	17.8	100
C3	10000	2500X400	17.8	100	17.8	100	17.8	100
C4	10000	2500X400	17.8	100	17.8	100	17.8	100
C5	10000	2500X400	17.8	100	17.8	100	17.8	100
C6	10000	2500X400	17.8	100	17.8	100	17.8	100
C7	10000	2500X400	17.8	100	17.8	100	17.8	100
C8	10000	2500X400	17.8	100	17.8	100	17.8	100
C9	10000	2500X400	17.8	100	17.8	100	17.8	100
C10	10000	2500X400	17.8	100	17.8	100	17.8	100



SCHEDULE OF R.C. COMBINED COLUMN FOUNDATIONS

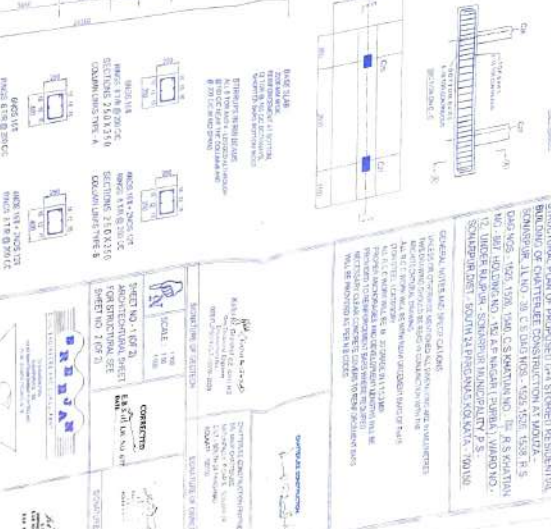
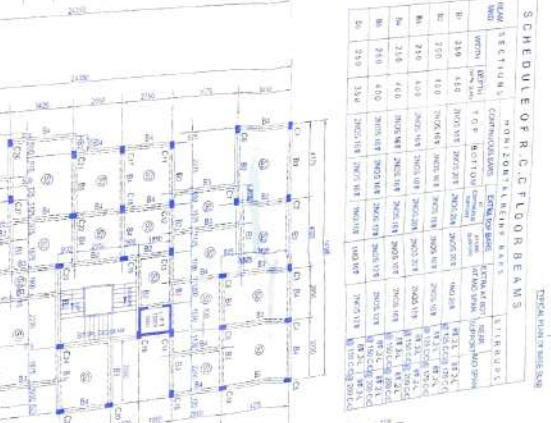
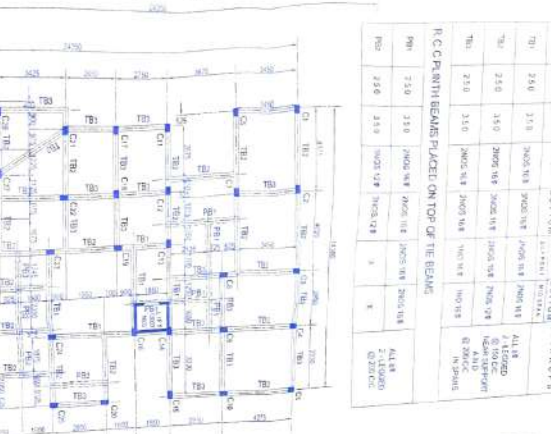
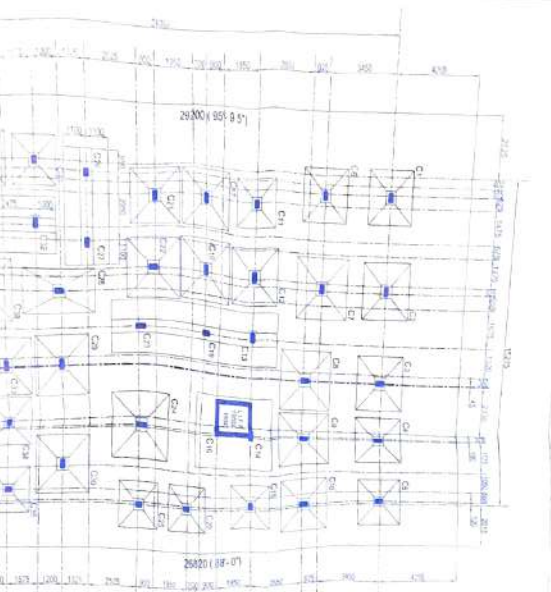
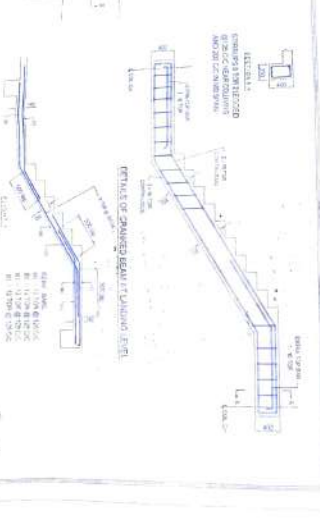
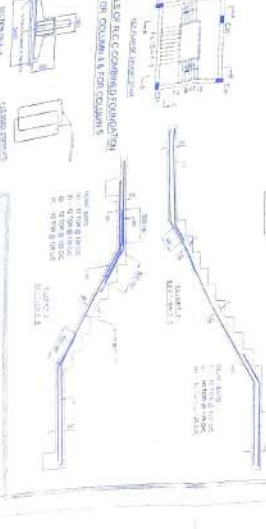
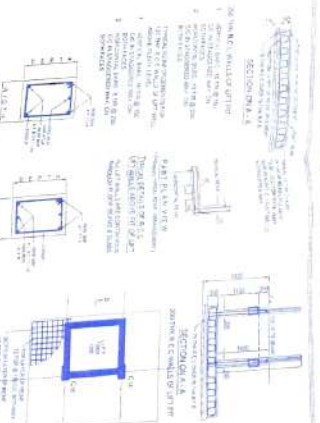
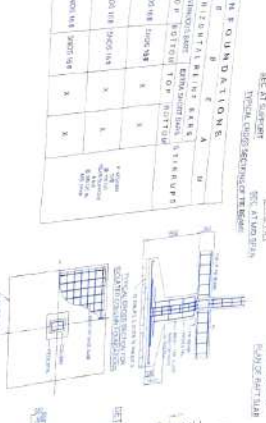
COLUMN ID	NOTE	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO	SECTION	SI	NO
C1	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C2	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C3	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C4	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C5	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C6	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C7	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C8	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C9	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100
C10	10000	2500X400	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100	17.8	100

SCHEDULE OF R.C. CTIE BEAMS AT GROUND

SECTION	DEPTH	TOP	BOTTOM	TOP	BOTTOM	SECTION	DEPTH	TOP	BOTTOM	TOP	BOTTOM
10	250	200	250	200	250	10	250	200	250	200	250
11	250	200	250	200	250	11	250	200	250	200	250
12	250	200	250	200	250	12	250	200	250	200	250
13	250	200	250	200	250	13	250	200	250	200	250
14	250	200	250	200	250	14	250	200	250	200	250
15	250	200	250	200	250	15	250	200	250	200	250
16	250	200	250	200	250	16	250	200	250	200	250
17	250	200	250	200	250	17	250	200	250	200	250
18	250	200	250	200	250	18	250	200	250	200	250
19	250	200	250	200	250	19	250	200	250	200	250
20	250	200	250	200	250	20	250	200	250	200	250

R.C. PARTIAL BEAMS PLACED ON TOP OF THE BEAMS

SECTION	DEPTH	TOP	BOTTOM	TOP	BOTTOM	SECTION	DEPTH	TOP	BOTTOM	TOP	BOTTOM
21	250	200	250	200	250	21	250	200	250	200	250
22	250	200	250	200	250	22	250	200	250	200	250
23	250	200	250	200	250	23	250	200	250	200	250
24	250	200	250	200	250	24	250	200	250	200	250
25	250	200	250	200	250	25	250	200	250	200	250
26	250	200	250	200	250	26	250	200	250	200	250
27	250	200	250	200	250	27	250	200	250	200	250
28	250	200	250	200	250	28	250	200	250	200	250
29	250	200	250	200	250	29	250	200	250	200	250
30	250	200	250	200	250	30	250	200	250	200	250



GENERAL NOTE: ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.

REVISIONS:

NO. 1: AS PER CLIENT REQUIREMENTS.

NO. 2: CORRECTION OF TYPING ERRORS.

NO. 3: ADDITION OF NEW DETAILS.

NO. 4: DELETION OF UNNECESSARY DETAILS.

NO. 5: MODIFICATION OF MATERIAL SPECIFICATIONS.

NO. 6: UPDATE OF ZONING REGULATIONS.

NO. 7: ENVIRONMENTAL ASSESSMENT.

NO. 8: FINAL APPROVAL.

NO. 9: CONSTRUCTION START.

NO. 10: COMPLETION.

SCALE: 1:100

DATE: 15/08/2024

DRAWN BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

PROJECT NO: 04/2024

SHEET NO: 1 OF 1

CONTRACTOR: [Name]

CLIENT: [Name]

LOCATION: [Address]

DATE OF ISSUE: 15/08/2024

DATE OF VALIDITY: 15/08/2024

DATE OF CLOSURE: 15/08/2024

DATE OF REVISION: 15/08/2024

DATE OF APPROVAL: 15/08/2024

DATE OF COMPLETION: 15/08/2024

DATE OF HANDOVER: 15/08/2024

DATE OF OCCUPANCY: 15/08/2024

DATE OF DEMOLITION: 15/08/2024

DATE OF RECONSTRUCTION: 15/08/2024

DATE OF RENOVATION: 15/08/2024

DATE OF MAINTENANCE: 15/08/2024

DATE OF INSPECTION: 15/08/2024

DATE OF SURVEY: 15/08/2024

DATE OF DESIGN: 15/08/2024

DATE OF DRAWING: 15/08/2024

DATE OF PRINTING: 15/08/2024

DATE OF DISTRIBUTION: 15/08/2024

DATE OF ARCHIVING: 15/08/2024

DATE OF DESTRUCTION: 15/08/2024

DATE OF RECONSTRUCTION: 15/08/2024

DATE OF RENOVATION: 15/08/2024

DATE OF MAINTENANCE: 15/08/2024

DATE OF INSPECTION: 15/08/2024

DATE OF SURVEY: 15/08/2024

DATE OF DESIGN: 15/08/2024

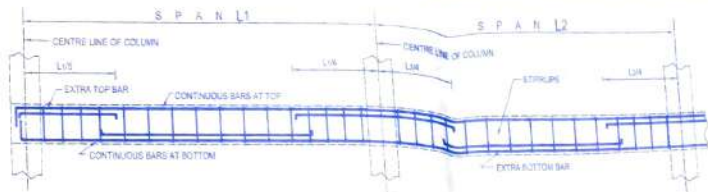
DATE OF DRAWING: 15/08/2024

DATE OF PRINTING: 15/08/2024

DATE OF DISTRIBUTION: 15/08/2024

DATE OF ARCHIVING: 15/08/2024

DATE OF DESTRUCTION: 15/08/2024



SECTIONAL ELEVATION OF R.C.C FLOOR BEAMS



- 250 THK. R.C.C WALLS OF LIFT PIT:
1. VERTICAL BARS - 15 TR @ 150 C/C IN STAGGERED WAY, ON BOTH FACES.
  2. HORIZONTAL BARS - 10 TR @ 200 C/C IN STAGGERED WAY, ON BOTH FACES.

- TYPICAL REINFORCEMENTS FOR 125 THK. R.C.C WALLS OF LIFT WELL ABOVE PLINTH LEVEL:
1. VERTICAL BARS - 10 TR @ 150 C/C IN STAGGERED WAY, ON BOTH FACES.
  2. HORIZONTAL BARS - 8 TR @ 200 C/C IN STAGGERED WAY, ON BOTH FACES.

SCHEDULE OF R.C.C COLUMNS					
COLUMNS MKD.	NOTE	COLUMN SECTION	REINFORCEMENT FOR COLUMN SECTION		
			IN FDN. GR. FIRST & SECOND FLOOR	IN 3RD & 4TH FLOOR	ABOVE ROOF OF 4TH FLOOR
C11, C15, C20, C25, C26, C31, C35, C39	06 COLS.	250 X 350	6NOS. 16 $\Phi$ SECN. TYPE A	4NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE B	X
C1, C5, C6, C34, C36, C42	06 COLS.	250 X 400	6NOS. 16 $\Phi$ SECN. TYPE C	4NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE D	X
C2, C3, C4, C10, C12, C17, C21, C32, C33, C40, C41	11 COLS.	250 X 400	6NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE E	6NOS. 16 $\Phi$ SECN. TYPE C	X
C7, C8, C9, C13, C14, C18, C22, C27, C28, C29, C30, C37, C38	13 COLS.	250 X 450	8NOS. 16 $\Phi$ SECN. TYPE F	6NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE E	X
C16, C19	02 COLS.	250 X 450	8NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE G	8NOS. 16 $\Phi$ SECN. TYPE F	X
C23, C24	02 COLS.	250 X 500	10NOS. 16 $\Phi$ SECN. TYPE H	8NOS. 16 $\Phi$ + 2NOS. 12 $\Phi$ SECN. TYPE G	X

SCHEDULE OF R.C.C FLOOR SLABS									
SLAB PANEL MKD.	NOTES	OVERALL THICKNESS	REINFORCEMENT FOR MAIN SPAN				REINFORCEMENT FOR DISTRIBUTION SPAN		
			AT BOTTOM		AT TOP		AT BOTTOM		AT TOP
			MID SPAN	SUPPORT	AT CONTL. SUPPORT	AT DISCONT. SUPPORT	MID SPAN	SUPPORT	AT CONTL. SUPPORT
S1	THICKER	125 MM	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 150 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C
S2	GENERAL	100 MM	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 150 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C	8 $\Phi$ @ 125 C/C
S4	CANTL.	100 MM	AT TOP 8 $\Phi$ @ 150 C/C AT BOTTOM 8 $\Phi$ @ 300 C/C				AT TOP 8 $\Phi$ @ 150 C/C AT BOTTOM 8 $\Phi$ @ 300 C/C		

SCHEDULE FOR R.C.C COMBINED COLUMN FOUNDATION									
COLUMNS MKD.	AREA OF BASE SLAB B X L	THICKNESS OF SLAB T	REINFORCEMENT OF BASE SLAB		WIDTH W	DEPTH TOTAL D	HORIZONTAL REINF.		
			REINFORCEMENT OF BASE SLAB				CONTINUOUS BARS		EXTRA SHORT
			SHORTER LENGTH BARS (bottom most)	LONGER LENGTH BARS			TOP	BOTTOM	TOP
C26 + C27	5000 X 2200	200 TO 400	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	600	650	5NOS. 16 $\Phi$	5NOS. 16 $\Phi$	X
C32 + C37	4575 X 2400	200 TO 400	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	600	650	5NOS. 16 $\Phi$	5NOS. 16 $\Phi$	X
C13 + C19 + C23	9000 X 2400	200 TO 400	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	600	750	6NOS. 16 $\Phi$	5NOS. 16 $\Phi$	

SCHEDULE OF ISOLATED COLUMN FOOTINGS							
COLUMNS MKD.	NOTE	AREA OF BASE SLAB	REINFORCEMENT OF BASE SLAB		THICKNESS		PEDESTAL SECTION
			BARS OF LONGER LENGTH (bottom most)	BARS OF SHORTER LENGTH	AT TOE	AT HEEL	
C11, C15, C20, C25, C26, C31, C35, C39	8 NOS.	2100 X 2100	12 $\Phi$ @ 175 C/C	12 $\Phi$ @ 175 C/C	200	400	500 X 550
C1, C5, C6, C34, C36, C42	6 NOS.	2300 X 2300	12 $\Phi$ @ 175 C/C	12 $\Phi$ @ 175 C/C	200	400	500 X 550
C2, C3, C4, C10, C12, C17, C21, C33, C40, C41	10 NOS.	2500 X 2500	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	200	400	500 X 550
C7, C8, C9, C18, C22, C29, C30, C38	8 NOS.	2700 X 2700	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	200	400	600 X 600
C28	1 NO.	2000 X 3600	12 $\Phi$ @ 150 C/C	12 $\Phi$ @ 150 C/C	200	400	600 X 600
	1 NO.	3000 X 3000	16 $\Phi$ @ 150 C/C	12 $\Phi$ @ 125 C/C	250	500	600 X 600

SCHEDULE OF R.C.C TIE BEAMS AT GROUND							
TIE BEAM MARKED	SECTIONS		HORIZONTAL REINFORCEMENT BARS				STIRRUPS
	WIDTH	DEPTH	CONTINUOUS BARS		EXTRA SHORT BARS		
			TOP	BOTTOM	SUPPORT	MID SPAN	
TB1	250	350	3NOS. 16 $\Phi$	3NOS. 16 $\Phi$	2NOS. 16 $\Phi$	2NOS. 16 $\Phi$	ALL 8 $\Phi$ 2-LEGGED 150 C/C

SCHEDULE	
BEAM MKD.	SECT

- REINF. BARS  
 (e) - 12 TOR @ 128 C/C.  
 (f) - 12 TOR @ 128 C/C.  
 (g) - 12 TOR @ 128 C/C.  
 (h) - 12 TOR @ 128 C/C.

FLIGHT-2  
SECTION B-B



**STRUCTURAL PLAN OF PROPOSED G+4 STORIED RESIDENTIAL BUILDING OF CHATTERJEE CONSTRUCTION AT MOUZA - SONARPUR, J.L NO.- 39, C.S DAG NOS.- 1525, 1526, 1538, R.S DAG NOS.- 1525, 1526, 1540, C.S KHATIAN NO.- 783, R.S KHATIAN NO.- 887, HOLDING NO.- 152 A.P NAGAR (PURBA), WARD NO.- 12, UNDER RAJPUR - SONARPUR MUNICIPALITY, P.S - SONARPUR, DIST.- SOUTH 24 PARGANAS, KOLKATA - 700150.**

**GENERAL NOTES AND SPECIFICATIONS :**

- UNLESS OTHERWISE MENTIONED ALL DIMENSIONS ARE IN MILLIMETRES.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWING.
- ALL R.C.C WORK WILL BE WITH REINFORCEMENT BARS OF Fe415 (TOR STEEL) CATEGORY.
- ALL R.C.C WORK WILL BE M - 20 GRADE IN 1:1.5:3 MIX.
- PROPER ANCHORAGES AND DEVELOPMENT LENGTHS WILL BE PROVIDED TO REINFORCEMENT BARS WHERE REQUIRED.
- NECESSARY CLEAR CONCRETE COVERS TO REINFORCEMENT BARS WILL BE PROVIDED AS PER N.B CODES.

CHATTERJEE CONSTRUCTION

*Anup Chatterjee*  
Proprietor

*Kallol Kr Ghoshal*  
Kallol Kr. Ghoshal B.E. (CIVIL), MIE  
Geo Technical Engineer  
Empanelement No.:  
028/RJPSON/G.T./2019-2020

CHATTERJEE CONSTRUCTION PROPRIETOR :  
SRI ANUP CHATTERJEE  
NATUNPALLY, P.O+P.S - SONARPUR  
DIST.- SOUTH 24 PARGANAS  
KOLKATA - 700150

SIGNATURE OF GEOTECH

SIGNATURE OF OWNER



SCALE :  
1:100  
1:50  
1:800

CORRECTED

*E.B.S. (I)*  
E.B.S.(I). LIC NO. 677  
DATE .....

SHEET NO.- 1 (OF 2)  
ARCHITECTURAL SHEET  
FOR STRUCTURAL SEE  
SHEET NO.- 2 (OF 2)

SIGNATURE OF E.B.S

*Jit Chakraborty*  
B.TECH (CIVIL) MIE (INDIA)  
E.B.S. (CLASS-1) LIC NO. 677  
RAJPUR-SONARPUR MUNICIPALITY  
L.B.S. (CLASS-II) LIC NO: 1433  
KOLKATA MUNICIPAL CORPORATION

**SREJAN**  
CIVIL ENGINEERS AND CONSULTANT

DESHBANDHU PARK  
SONARPUR, J.L.- 152  
(NEAR AMANTRAM SANSAD PLAYGROUND)  
PH.NO. 033-6415-1182, 0333-43718



*Jit Chakraborty*  
B.TECH (CIVIL) MIE (INDIA)  
EMPAANELLED STRUCTURAL ENGINEER  
E.S.E. KOLKATA MUNICIPAL CORPORATION  
LIC NO. 508  
E.S.E. RAJPUR SONARPUR MUNICIPALITY  
LIC NO. 95

SIGNATURE OF E.S.E

REFERENCE NO.- 06/2021/REV.01/04/2022  
DRAWING NO.- 439/SR/352

SIGNATURE OF S.A.E

OFFICE USE ONLY:



Structural plan as submitted by the structural Engineer have been kept with Building Plan No. 08/cg/12/15 Dated On: 30/04/2022  
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 with design calculation  
and stability certificate in the prescribed form. Precautionary steps should be taken  
for the safety of the adjoining premises public private properties and safety of  
human life during Construction

*Molay*  
27/04/22  
Sig. of Assistant Engineer.  
Incharge P.W.D  
RAJPUR-SONARPUR MUNICIPALITY