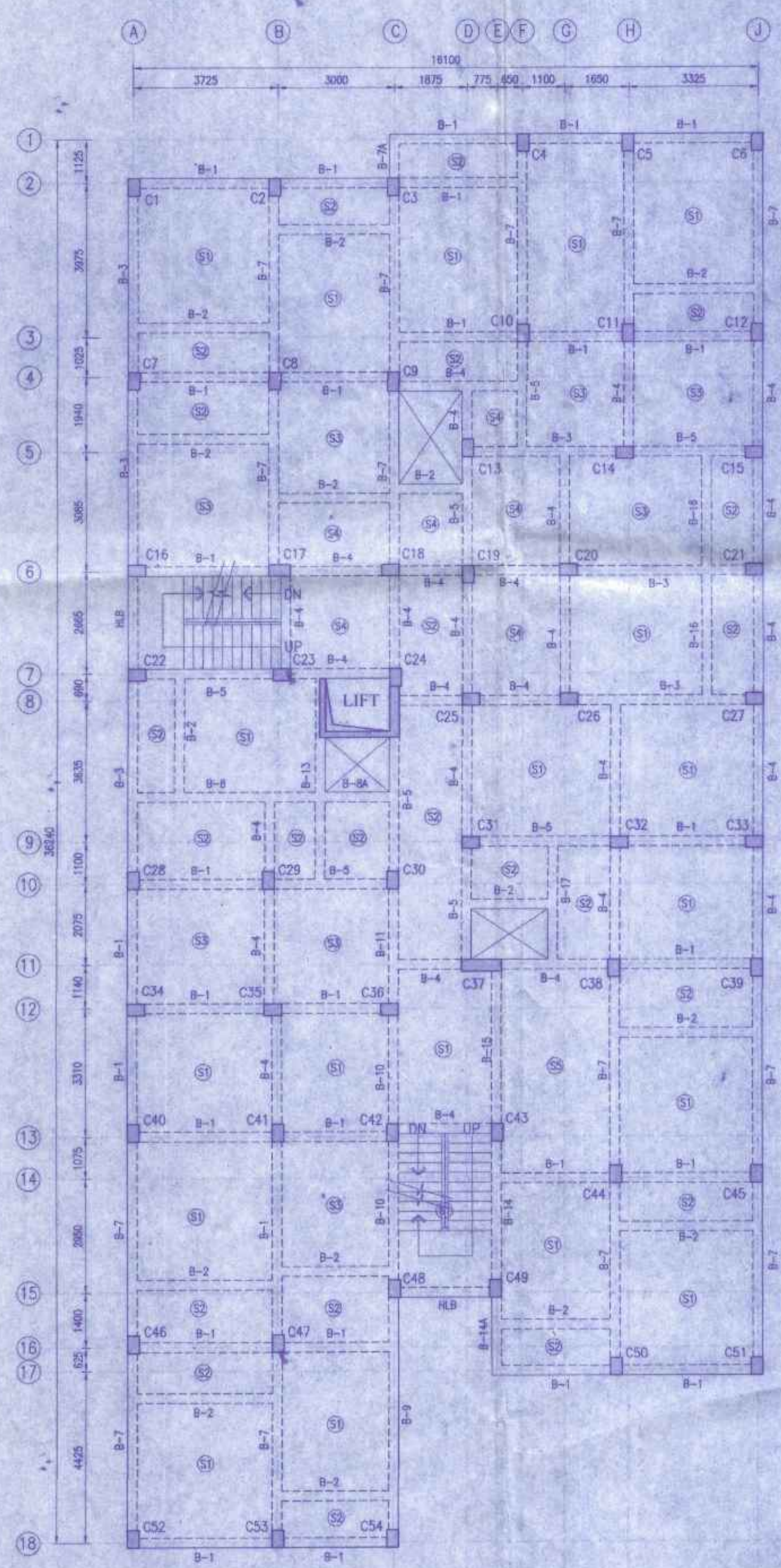


G.A OF THE BEAM LAYOUT PLAN
SCALE=1:100



G.A OF TYPICAL FLOOR BEAM LAYOUT PLAN
SCALE=1:100

SCHEDULE OF THE BEAM:
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT				STIRRUPS	
		SUPPORT TOP	SUPPORT BOT.	SPAN TOP	SPAN BOT.	SUPPORT	SPAN
TB-1	250X400	3-16 ⁺	3-16 ⁻	3-16 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
TB-2	250X400	2-16 ⁺	3-16 ⁻	2-16 ⁺	2-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
TB-3	250X400	3-12 ⁺	3-12 ⁻	3-12 ⁺	3-12 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
TB-4	250X400	3-16 ⁺	2-16 ⁻	3-16 ⁺	2-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C

SCHEDULE OF ROOF BEAM:
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT				STIRRUPS	
		SUPPORT TOP	SUPPORT BOT.	SPAN TOP	SPAN BOT.	SUPPORT	SPAN
B-1	250X450	3-20 ⁺	3-16 ⁻	2-20 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-2	250X350	3-12 ⁺	2-16 ⁻	3-12 ⁺	2-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-3	250X450	3-20 ⁺	3-16 ⁻	2-20 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-4	250X450	3-20 ⁺	3-16 ⁻	3-20 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-5	250X450	3-20 ⁺	3-16 ⁻	2-20 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-6	250X450	3-20 ⁺	3-16 ⁻	2-20 ⁺	2-12 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-7	250X450	3-20 ⁺	3-16 ⁻	2-20 ⁺	2-12 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-7A	250X450	3-20 ⁺	3-16 ⁻	3-20 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-8	250X450	3-16 ⁺	3-16 ⁻	2-16 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-8A	250X450	3-16 ⁺	3-16 ⁻	1-16 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-9	250X500	3-20 ⁺	3-20 ⁻	3-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-10	250X450	3-20 ⁺	3-20 ⁻	2-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-11	250X450	3-20 ⁺	3-20 ⁻	2-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-12	250X450	3-20 ⁺	3-20 ⁻	3-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-13	250X450	3-16 ⁺	3-16 ⁻	3-16 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-14	250X450	3-20 ⁺	3-20 ⁻	2-20 ⁺	2-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
B-14A	250X450	3-20 ⁺	3-20 ⁻	3-20 ⁺	3-20 ⁻	10 [#] -2L @ 100 C/C	10 [#] -2L @ 100 C/C
B-15	250X450	3-20 ⁺	3-20 ⁻	2-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-16	250X380	3-16 ⁺	3-16 ⁻	3-16 ⁺	3-16 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 150 C/C
B-17	250X350	3-16 ⁺	3-16 ⁻	3-16 ⁺	3-12 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C
HLB	250X450	3-20 ⁺	3-20 ⁻	3-20 ⁺	3-20 ⁻	8 [#] -2L @ 100 C/C	8 [#] -2L @ 100 C/C

SCHEDULE OF ROOF SLAB:
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

SLAB MKD.	SLAB THICKNESS (MM)	REINFORCEMENT			
		SHORTER SPAN		LONGER SPAN	
		SUPPORT (TOP)	SPAN (BOTTOM)	SUPPORT (TOP)	SPAN (BOTTOM)
S1	125	8 [#] @ 125 C/C	8 [#] @ 150 C/C	8 [#] @ 125 C/C	8 [#] @ 150 C/C
S2	115	8 [#] @ 150 C/C	8 [#] @ 200 C/C	8 [#] @ 200 C/C	8 [#] @ 200 C/C
S3	125	8 [#] @ 150 C/C	8 [#] @ 200 C/C	8 [#] @ 150 C/C	8 [#] @ 200 C/C
S4	115	8 [#] @ 200 C/C	8 [#] @ 200 C/C	8 [#] @ 200 C/C	8 [#] @ 200 C/C
S5	125	8 [#] @ 125 C/C	8 [#] @ 150 C/C	8 [#] @ 150 C/C	8 [#] @ 175 C/C
STAIR	175	PROVIDE 12 [#] @ 100 C/C MAIN REIN. & 8 [#] @ 200 C/C DISTRIBUTOR			

PROVIDE 8[#]@ 200 C/C DISTRIBUTOR BAR WHERE EVER REQUIRED

- NOTES:-
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
 - SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
 - GRADE OF CONC. M-25, OTHERWISE MENTIONED.
 - ALL MATERIALS SHALL CONFORM TO RELEVANT IS CODES.
 - FOR STEEL GRADE Fe 500 AS PER IS 1786-2008.
 - LAPS, SPICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
 - FOUNDATION & PLINTH : BRICKWORK IN FOUNDATION AND PLINTH SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
 - ALL DISTRIBUTION BARS ARE 8 TOR @ 200 C/C AND TO BE PROVIDED WHEREVER REQUIRED
 - ALL SPACER BARS ARE 25 TOR @ 1000 C/C AND TO BE PROVIDED WHEREVER REQUIRED
 - MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBER	TOP	BOTTOM	SIDE
a. BEAM	30	30	30
b. COLUMN	—	—	40
c. SLAB	25	25	25
d. FDN	50	75	50
 - PROVIDE 300 THK WELL COMPACTED SAND FILLING BELOW THE FOUNDATION FOR GROUND IMPROVEMENT.
 - ALL EXTERNAL WALL SHALL BE 250 THK. AND PARTITION WALL SHALL BE 125 THK.
 - AS PER SOIL INVESTIGATION REPORT S.B.C OF 2.0M WIDE STRIP FOUNDATION IS 8.0 TON/SQM FOR 1.5M DEPTH OF THE FOOTING FROM G.L.

THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.

For BALAJI PROJECTS
Kampanthi Kothari Partner
For BALAJI PROJECTS
Santosh Kothari Partner

SIGNATURE OF OWNER

TANMOY DAS
B.Tech (Civil), M.Tech (Structural) (Pursuing)
AMIE, MICE, Chartered Engineer
Empowered L.B.S. (Class-I)
Kolkata Municipal Corporation
License No.- LBS/11689

SIGNATURE OF ARCHITECT/CLBS

CERTIFICATE OF STRUCTURAL ENGINEER
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 THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

TANMOY DAS
B.Tech (Civil), M.Tech (Pursuing)
AMIE, MICE, Chartered Engineer
Empowered L.B.S. (Class-I)
Kolkata Municipal Corporation
License No.- LBS/11689

SIGNATURE OF STRUCTURAL ENGINEER

Checked & Vetted
Dr. Partha Pratap Das
B.E. (Civil), M.Tech (Structural Engg), Ph.D. (Engg)
Professor
Cochin Institute of Technology, Kochi

PROJECT :
PROPOSED G+4 STORED APARTMENT TYPE RESIDENTIAL BUILDING OF BALAJI PROJECTS OF R.S.DAG NO-560 & 601(P), L.R. DAG NO-654 & 700 (P), AT MOUZA-GURE, IL NO-20, WITHIN SANTOSH PUR GRAM PANCHAYET, GURE, PADMAPUKUR-BHIMPUR-ROAD, PS-TARAKESWAR, DIST-HOOGHLY, WEST BENGAL.

PARTNERS-SRI LAXMIPATH KOTHARI, SMT. SANTOSH KOTHARI.

TITLE
STRUCTURAL DETAILS

DRAWN BY- GUDIPTA DATE - 16.12.2023 SHEET NO. - 01/02
CHECKED BY- TANMOY SCALE - 1:100, 20:25 REVISION - 00
JOB NO. :
DRG. NO. - JUBHIMPUR/G+4-STR/12/2023
STATUS INFORMATION APPROVAL SUBMISSION

May be Technically vetted
Asst. Engineer
Hooghly Zilla Parishad

Technically vetted
District Engineer
Hooghly Zilla Parishad