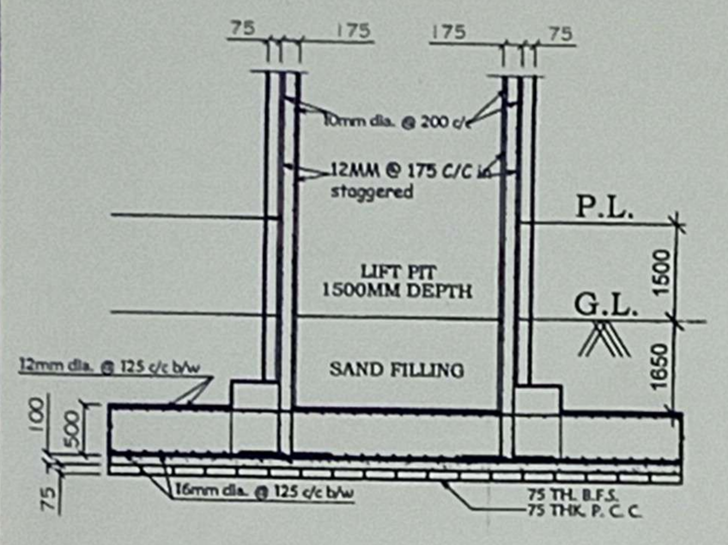
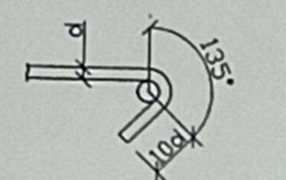


SECTIONAL ELEVATION OF LIFT WALL WITH FOUNDATION

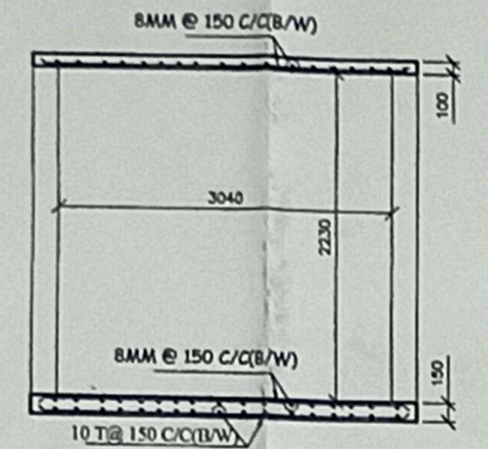
COLUMN SCHEDULE

FOUNDATION TO 2ND FLOOR	M25 : Fe500 , COVER = 40MM CONFINING ZONE = 650 MM			M25 : Fe500 , COVER = 40MM CONFINING ZONE = 650 MM		
	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS
	T8 @ 100	T8 @ 100	T8 @ 150	T8 @ 100	T8 @ 100	T8 @ 150
	300 × 500 (T20, T16)			300 × 500 (T20, T16)		
	C1 8-T20 + 4-T16			C2 4-T20 + 4-T16		

COLUMN REINFORCEMENT FOR OTHER FLOOR AS PER TABLE.



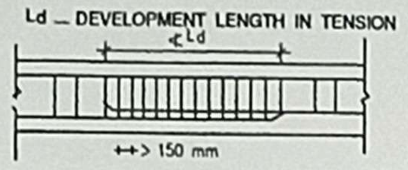
TYP. DETAIL OF COLUMN STIRRUPS



SECTION OF LIFT M/C RM.
SCALE- 1: 50

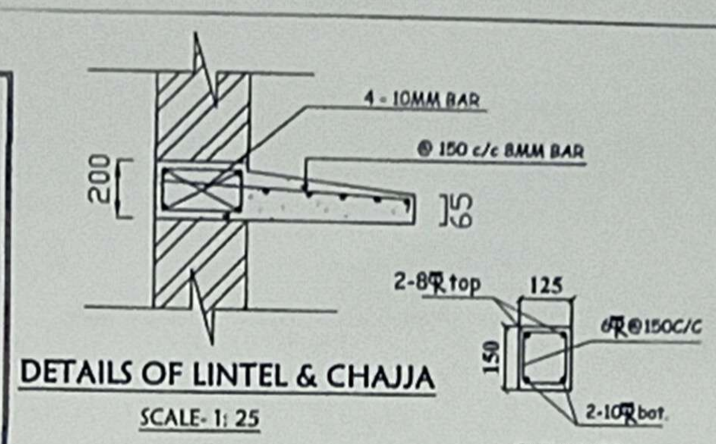
GENERAL NOTES.

1. DEPTH OF FOUNDATION HAS BEEN CONSIDERED 3.5M IN DESIGN.
2. SPECIAL CONFINING REINFORCEMENT SHOULD BE PROVIDED IN HALF LANDING BEAM.
3. SPECIAL CONFINING REINFORCEMENT SHOULD BE PROVIDED ALL OVER THE SPAN IN SECONDARY & PRIMARY CONNECTION.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS :-
   (a) COLUMN - 40MM SIDE
   (b) FLOOR BEAM - 30MM TOP, BOTTOM & SIDES.
   (c) FLOOR SLAB - 20MM TOP & BOTTOM.
   (d) FOUNDATION - 50MM
5. WATER TANK OF 10,000 LTR. SHOULD BE INSTALLED SYMMETRICALLY IN TOTAL ROOF (NOT CONCENTRATED). LOAD OF WATER TANK HAS BEEN CONSIDERED IN ANALYSIS.
6. EXTRA TOP & BOTTOM.
   FLOOR BEAM -(I) EXTRA TOP TO BE PROVIDED AT L/3 FROM SUPPORT OR LD WHICHEVER IS GREATER AS PER CODE.
   (II) EXTRA BOTTOM TO BE EXTENDED L/5 FROM SUPPORT.
   SLAB - (I) EXTRA TOP TO BE PROVIDED IN ALL SUPPORTS FOR A LENGTH OF L/3 FROM SUPPORT.
   (II) BOTTOM ROD TO BE CKD. AT L/5 FROM SUPPORT.
7. MINIMUM LAP LENGTH - 49Ø, GRADE OF CONCRETE - M25, GRADE OF STEEL - FE500.
8. MINIMUM DEVELOPMENT LENGTH(Ld) FOR TOR STEEL SHALL BE 67Ø OF THE BAR FOR M25 MIX.
9. ALL DRAWINGS SHALL BE CORRELATED WITH ARCHITECTURAL DRAWING AND ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE E/C BEFORE EXECUTION.
10. CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION OF WORK. NO CLAIM WILL BE ENTERTAINED THEREAFTER. CONTRACTOR SHALL BE RESPONSIBLE TO PROPER LINE & LEVEL OF STRUCTURE.
11. THIS DRAWING IS TO BE READ ALONG WITH ARCHITECTURAL DRAWING, SPECIFICATIONS & ALL REFERENCE DRAWINGS.
12. ALL THE WORKS SHALL BE DONE AS PER RELEVANT I.S. CODE PERTAINING TO WORK.
13. DESIGN IS BASED ON AS PER I.S. 456-2000, I.S. 1893-2002,SP-16, I.S. 875, I.S. 13920-2016.
14. GOOD QUALITY BRICKS MUST BE USED FOR LOAD BEARING WALL.
15. SEISMIC ZONE CONSIDERED FOR DESIGN AS ZONE-III.
16. SAFE BEARING CAPACITY OF SOIL IS 6.63 T/SQ.M (AS PER SOIL REPORT PREPARED BY "M/S D.S. CONSTRUCTION, JADAVPUR, KOLKATA- 700078."
17. ALL DIMENSIONS ARE IN MILIMETER(MM). DIMENSIONS ARE NOT TO BE SCALE.



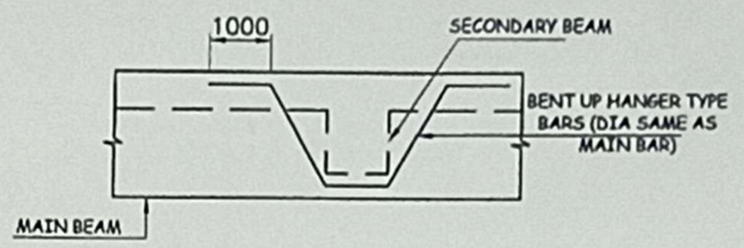
Ld – DEVELOPMENT LENGTH IN TENSION

LAP, SPLICE IN BEAM

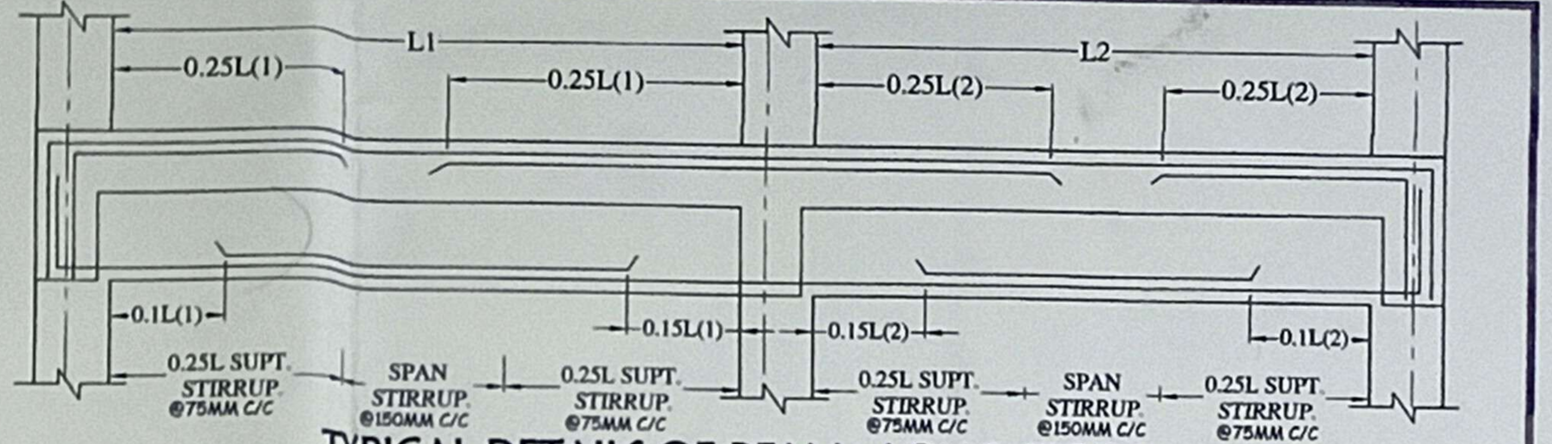


DETAILS OF LINTEL & CHAJJA
SCALE- 1: 25

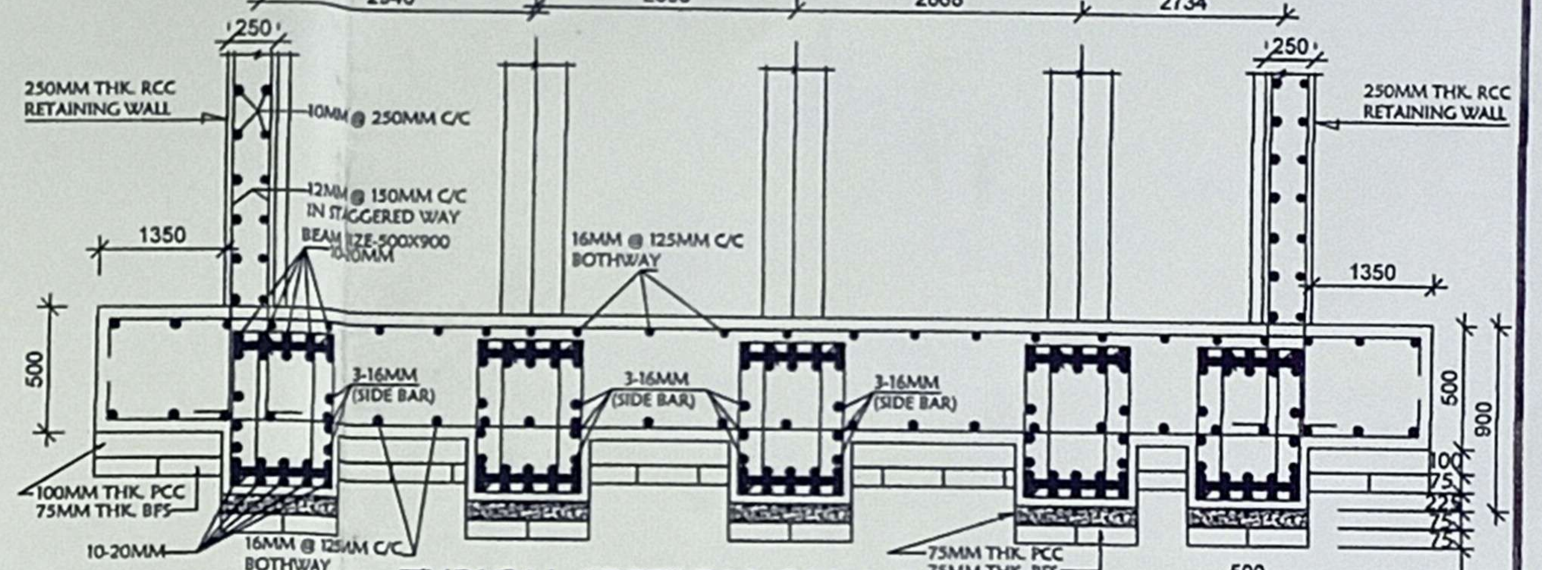
CUT LINTEL OVER 125 THK. WALL
SCALE-1:25



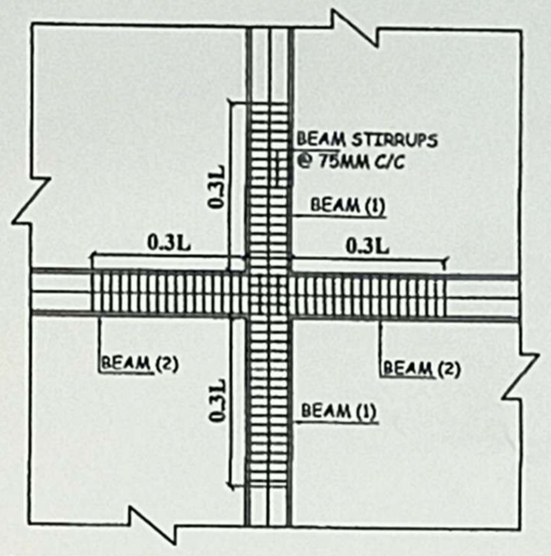
BENT UP HANGER TYPE BARS AT MAIN BEAM & SECONDARY BEAM JUNCTIONS.



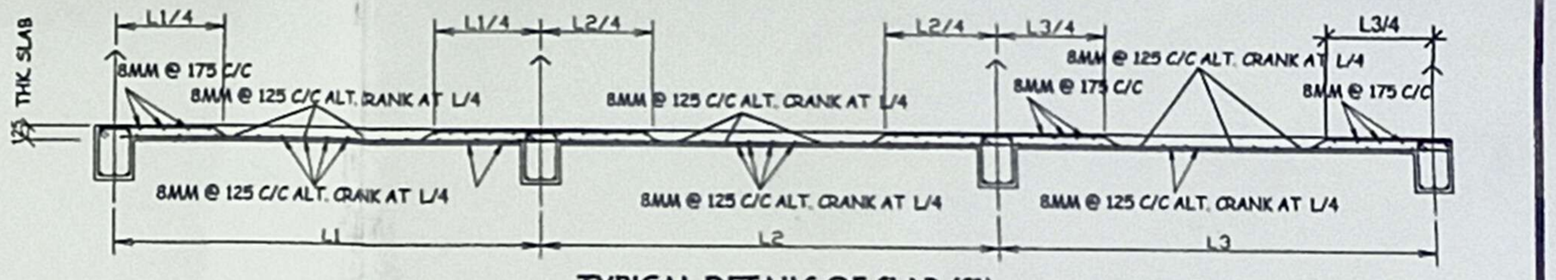
TYPICAL DETAILS OF BEAM , LONG SECTION
SCALE- 1: 25



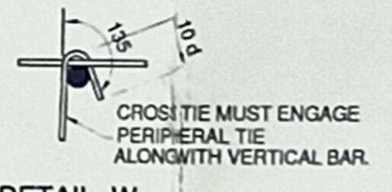
TYPICAL SECTION ON A-A



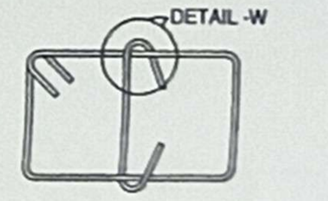
DETAILS OF CROSS BEAM JUNCTION.
SCALE- 1: 50



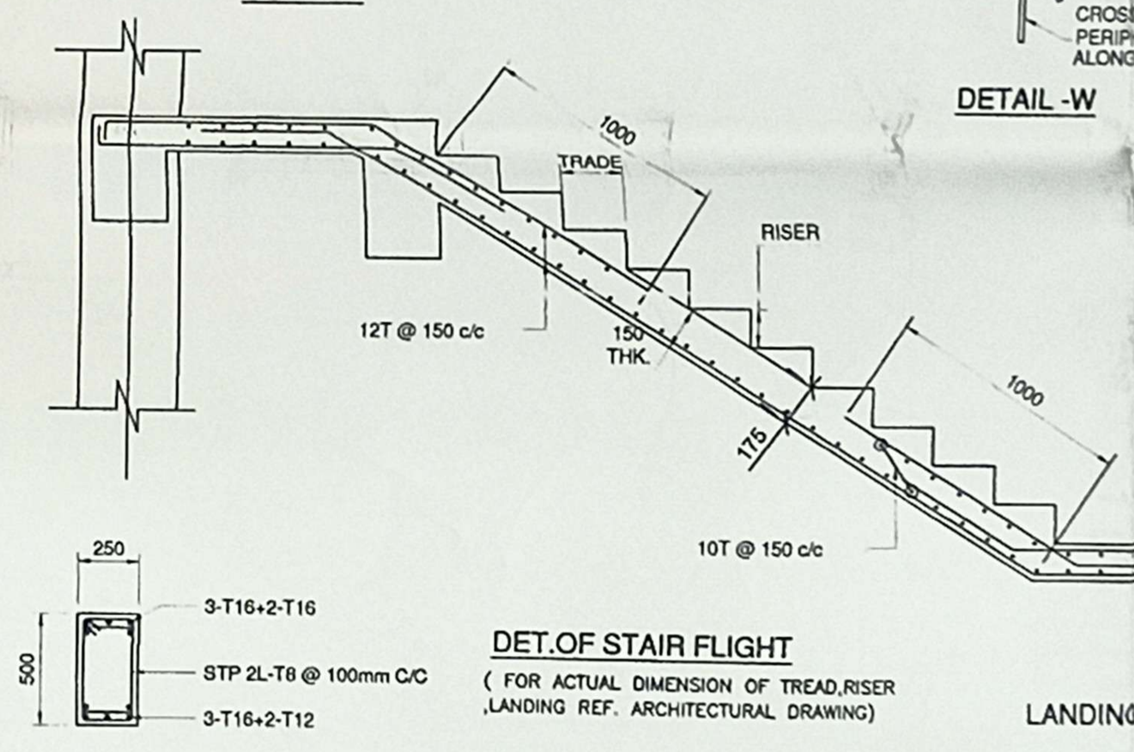
TYPICAL DETAILS OF SLAB (S1)
SCALE- 1: 25



DETAIL -W

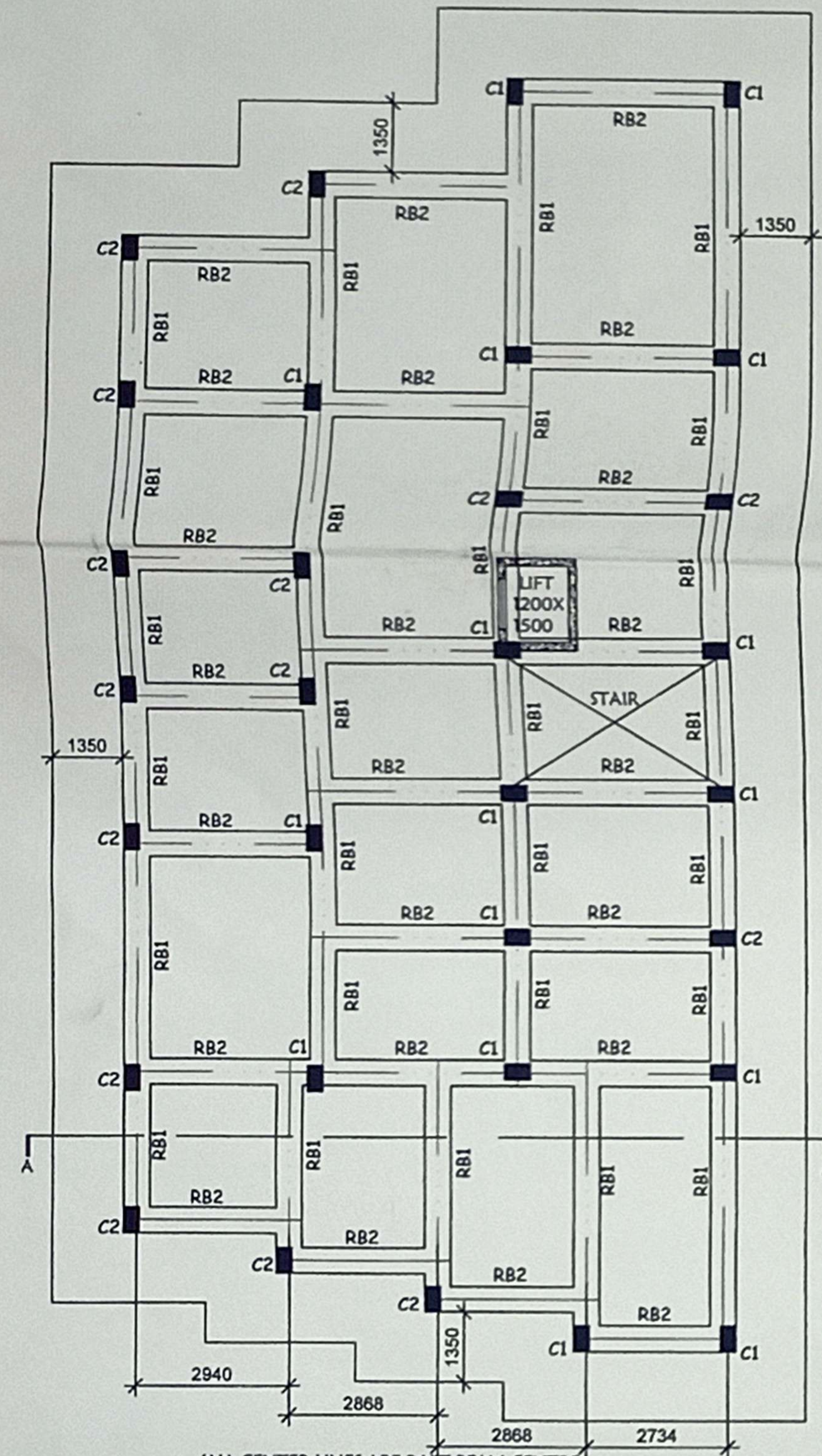


TYPICAL DETAIL OF LINK



DET.OF STAIR FLIGHT
(FOR ACTUAL DIMENSION OF TREAD,RISER ,LANDING REF. ARCHITECTURAL DRAWING)

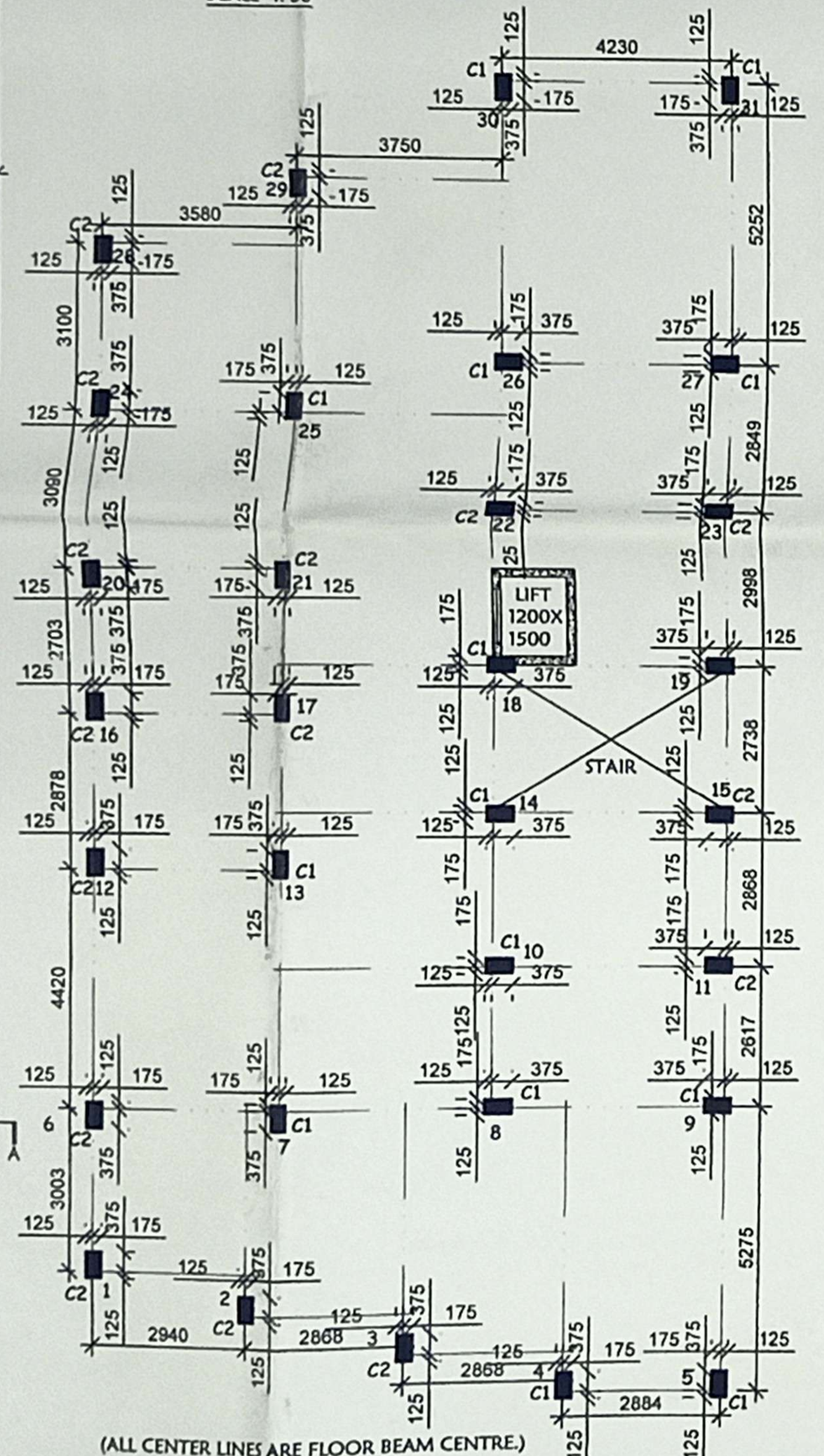
LANDING BEAM



(ALL CENTER LINES ARE RAFT BEAM CENTRE.)

RAFT FOUNDATION LAYOUT PLAN

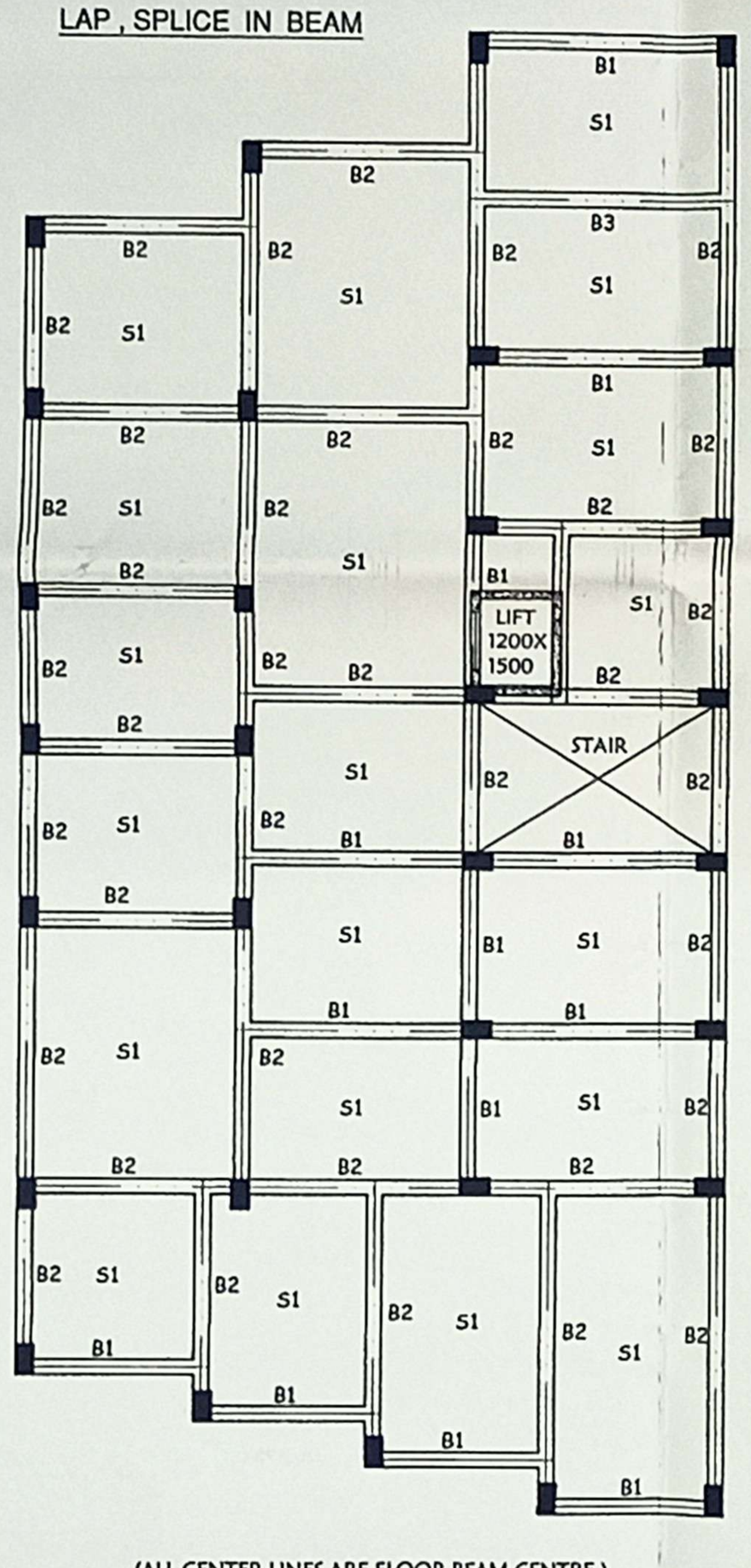
SCALE- 1: 100



(ALL CENTER LINES ARE FLOOR BEAM CENTRE.)

COLUMN LAYOUT PLAN

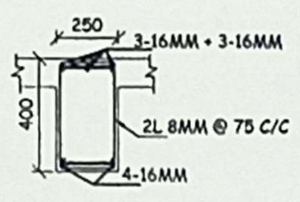
SCALE- 1: 100



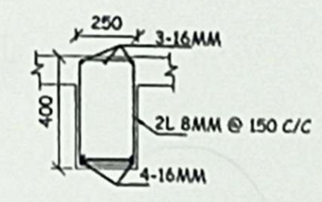
(ALL CENTER LINES ARE FLOOR BEAM CENTRE.)

BEAM-SLAB LAYOUT PLAN

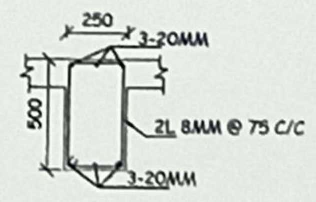
SCALE- 1: 100



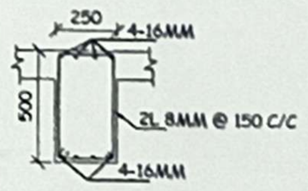
CROSS SECTION OF BEAM MKD. B1 (AT SUPPORT)
SCALE= 1 : 25



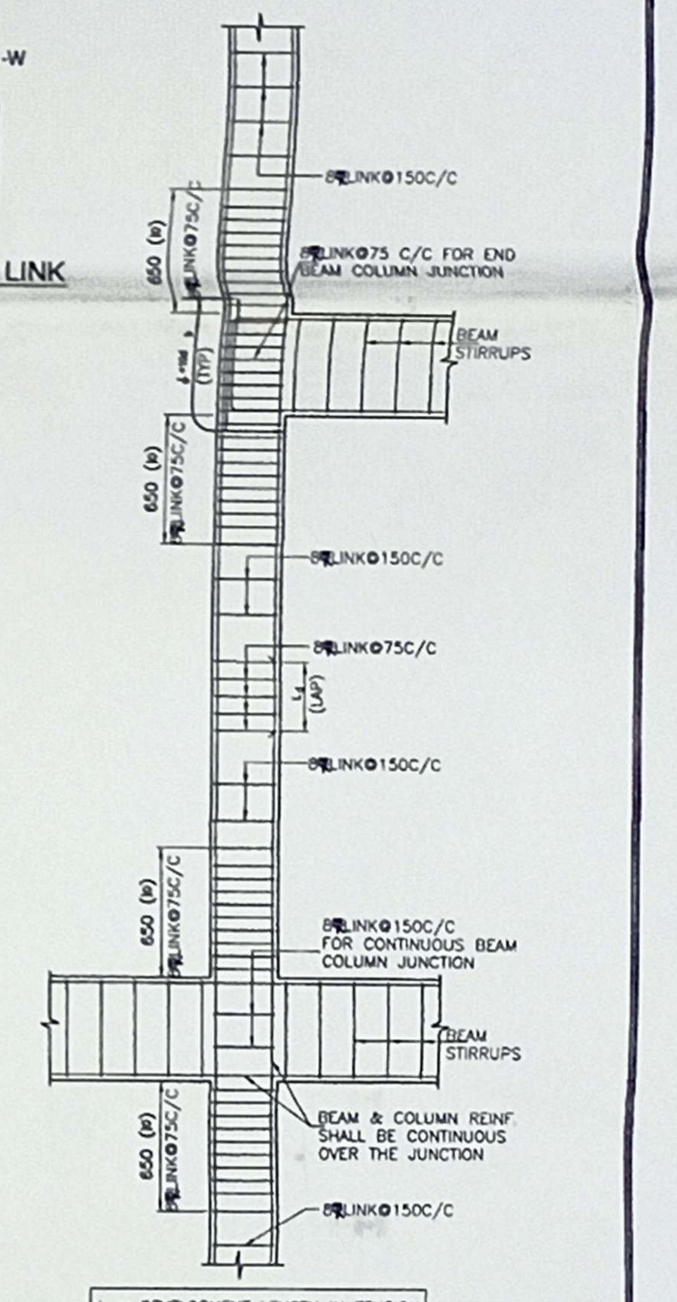
CROSS SECTION OF BEAM MKD. B1 (AT SPAN)
SCALE= 1 : 25



CROSS SECTION OF BEAM MKD. B2 (AT SUPPORT)
SCALE= 1 : 25



CROSS SECTION OF BEAM MKD. B2 (AT SPAN)
SCALE= 1 : 25



Ld = DEVELOPMENT LENGTH IN TENSION
db = DIAMETER OF LONGITUDINAL BAR

TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25

DETAILS OF FOUNDATION(RAFT SLAB)

REINFORCEMENT. TOP	REINFORCEMENT. BOTTOM	SIDE PROJECTION	CONC. DEPTH
16MM @ 125 C/C	16MM @ 125 C/C	1350	500

FDN. BEAM, SIZE 500X900, REINF. 10-20MM AT BOTTOM OF SUPPORT, 10-20MM AT TOP OF SPAN, SIDE REINF. 3-16MM EACH SIDE, STIRRUP 4L-10MM@ 100 C/C AT SUPPORT & 150C/C AT SPAN.

DETAILS OF COLUMN

MARK	SIZE bxd	REINFORCEMENT. UPTO 2ND FL.	REINFORCEMENT. 3RD & 4TH FL.	RING.
C1	300X500	8- 20+4-16	12-16	2-SET, 8 MM @ 150 C/C
C2	300X500	4- 20+4-16	8-16	2-SET, 8 MM @ 150 C/C

N.B. :-SPACING OF RING @ 75 C/C UPTO 0.75M FROM BOTTOM OF THE COLUMN. FURTHER SPACING OF RING @ 75 WILL BE FROM LINTEL LEVEL TO BOTTOM OF FLOOR BEAM.

DETAILS OF BEAM

MARK.	SIZE.	REINFORCEMENT. SUPPORT. TOP	SUPPORT. BOTTOM	SPAN. TOP	SPAN. BOTTOM	STIRRUP SUPPORT.	STIRRUP SPAN.
B1	250X400	3-16MM+ 3- 16MM	4-16MM	3-16MM	4-16MM	2L-8MM @ 75 C/C	2L-8MM @ 150 C/C
B2	250X500	3-20MM	3-20MM	3-20MM	3-20MM	2L-8MM @ 75 C/C	2L-8MM @ 150 C/C
B3	250X350	3-16MM	3-16MM	3-16MM	3-16MM	2L-8MM @ 75 C/C	2L-8MM @ 150 C/C
RB1	500X900	4-25MM+ 4-20MM	4-25MM+ 4-20MM	4-25MM+ 4-20MM	4-25MM+ 4-20MM	4L-10MM @ 100 C/C	4L-10MM @ 150 C/C
RB2	500X900	10-20MM	10-20MM	10-20MM	10-20MM	4L-10MM @ 100 C/C	4L-10MM @ 150 C/C

N.B. SIDE REINF. FOR RB1 & RB2 3-16MM EACH SIDE

DETAILS OF FLOOR/ROOF SLAB

MARK.	THK.	REINFORCEMENT. ALONG SHORT SPAN	REINFORCEMENT. ALONG LONG SPAN
S1	125 MM	8MM @ 125 C/C ALT. CRANK AT L/4	8MM @ 125 C/C ALT. CRANK AT L/4

NOTE :-EXTRA TOP REINF. (8MM) TO BE PROVIDED UPTO L/4 FROM SUPPORT

DETAILS OF STAIRCASE

THICKNESS OF WAIST SLAB = 175 MM
THICKNESS OF LANDING SLAB =175MM
MAIN REINF. 12MM @ 150 C/C,
DISTRIBUTOR. 10MM @ 150 C/C

DETAILS OF LIFTWALL

THICKNESS OF LIFT WALL = 175 MM
MAIN REINF. 12MM @ 150 C/C STAGGERING IN TWO LAYER
DISTRIBUTOR. 10MM @ 200 C/C

CERTIFICATE BY GEO-TECHNICAL ENGINEER

UNDERSIGNED HAS INSPECTED THE SITE AND CARRIED OUT 'SOIL INVESTIGATION' THEREON. IT IS CERTIFIED THAT THE EXISTING SOIL IS ABLE TO CARRY THE LOAD COMING FROM THE PROPOSED STRUCTURE AND THE FOUNDATION SYSTEM PROPOSED HEREIN IS SAFE AND STABLE IN ALL RESPECT FROM GEO-TECHNICAL POINT OF VIEW.

Sanjay Basu
B.E. (Cal), M.E. M.I.G.S
Geotechnical Engineer & Valuer

SIGNATURE OF GEO-TECHNICAL ENGINEER.

CERTIFICATE BY STRUCTURAL ENGINEER

CERTIFIED THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN SO DESIGNED BY ME WILL MAKE SUCH FOUNDATION & SUPERSTRUCTURE SAFE IN ALL RESPECTS INCLUDING THE CONSIDERATION OF BEARING CAPACITY & SETTLEMENT OF SOIL.

Sanjay Basu
B.E.(Cal), M.E., F.I.V
Chartered Engineer & Valuer
L.B.S.-I & Structural Engineer-I, KMC

SIGNATURE OF STRUCTURAL ENGINEER.

STRUCTURAL DRAWING FOR (B+G+4) STORIED RESIDENTIAL CUM COMMERCIAL BUILDING PLAN OF 1. SRI TAPAN KUMAR DAS S/O SRI PRAFULLA KUMAR DAS 2.SMT. KAKALI PAL W/O SRI BHASKAR PAL 3. SMT. KALI DAS W/O SRI DEBABRATA DAS 4. SMT. MITA DAS W/O LATE MIHIR DAS, AT MOUZA-BARBARIA, J.L. NO.08,R.S. NO. 24, COMPRISED IN R.S. & L.R. DAG NO. 2727,2728, UNDER MALIK KHATIAN NO. 720 KA ADHIN 722, L.R. KHATIAN NO.3475,3476, 3477 & 3478, DIST.- NORTH 24 PARGANAS, P.S. PREVIOUSLY BARASAT PRESENT DUTTAPUKUR, UNDER PASCHIM KHILKAPUR G.P.

30.7.24
DR. AMIT SHIULY
Associate Professor
Civil Engineering Department
Jadavpur University
Jadavpur, Kol-32

SIGNATURE OF VETTING AUTHORITY

SIGNATURE OF SANCTION AUTHORITY

MAHISHRA REALTY PVT. LTD.
Director
MAHISHRA REALTY PVT. LTD.
Director
Constituent Power of Attorney
SIGNATURE OF OWNERS