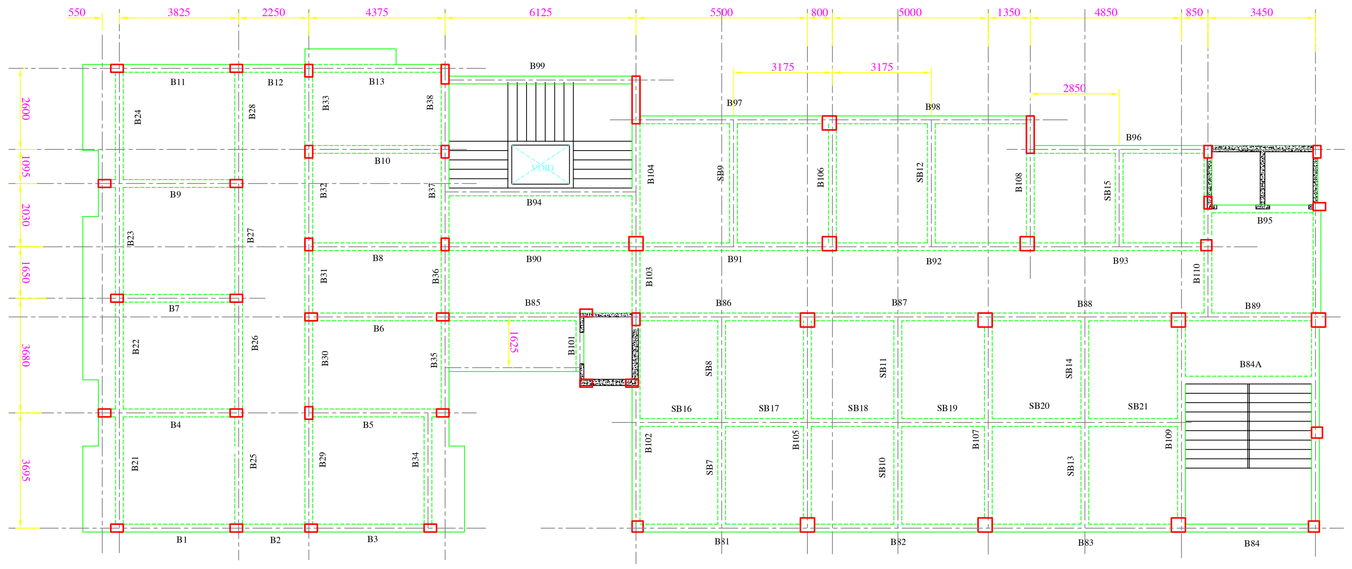
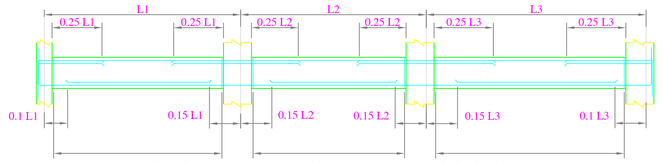
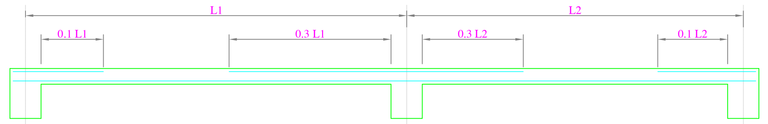


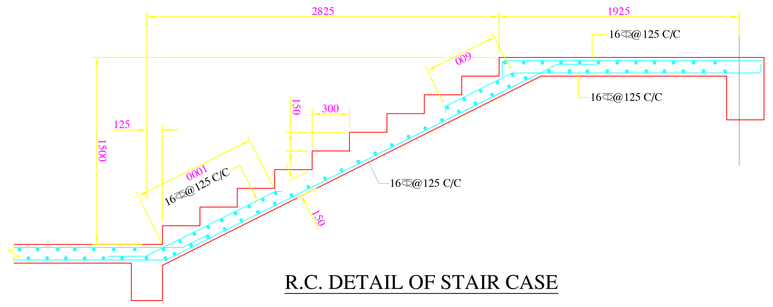
ROOF LEVEL (+15475)



CURTAILMENT DETAIL OF FLOOR BEAM



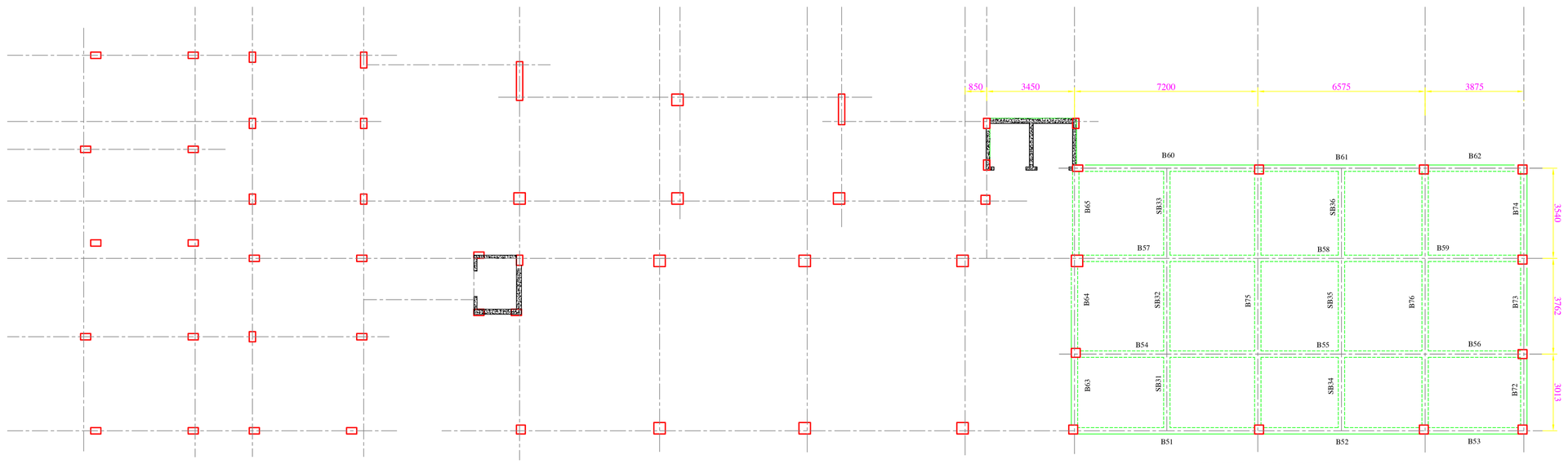
CURTAILMENT DETAIL OF FLOOR SLAB



R.C. DETAIL OF STAIR CASE

SCHEDULE OF SLAB

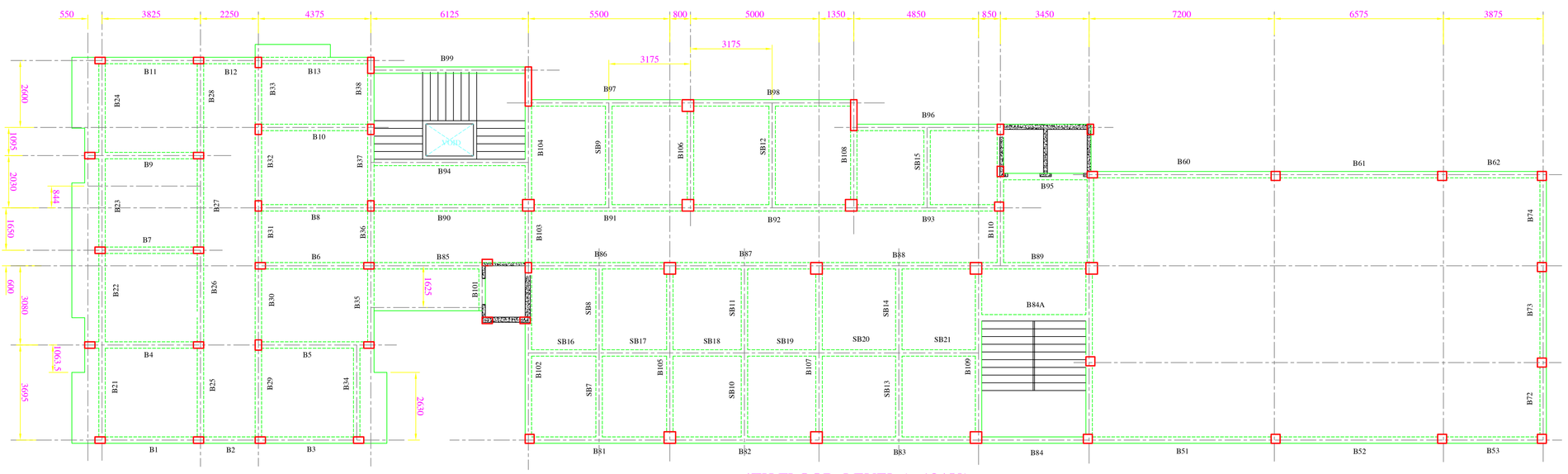
SLAB MKD.	THK.	REINFORCEMENT			
		SUPPORT (BOTH DIR.)		SPAN (BOTH DIR.)	
		TOP	BOTT.	TOP	BOTT.
S1	110	8 Φ @ 150 C/C	8 Φ @ 300 C/C		8 Φ @ 150 C/C
S2	120	8 Φ @ 150 C/C	8 Φ @ 300 C/C		8 Φ @ 150 C/C



SEMINAR ROOF LEVEL (+14000)

SCHEDULE OF BEAM

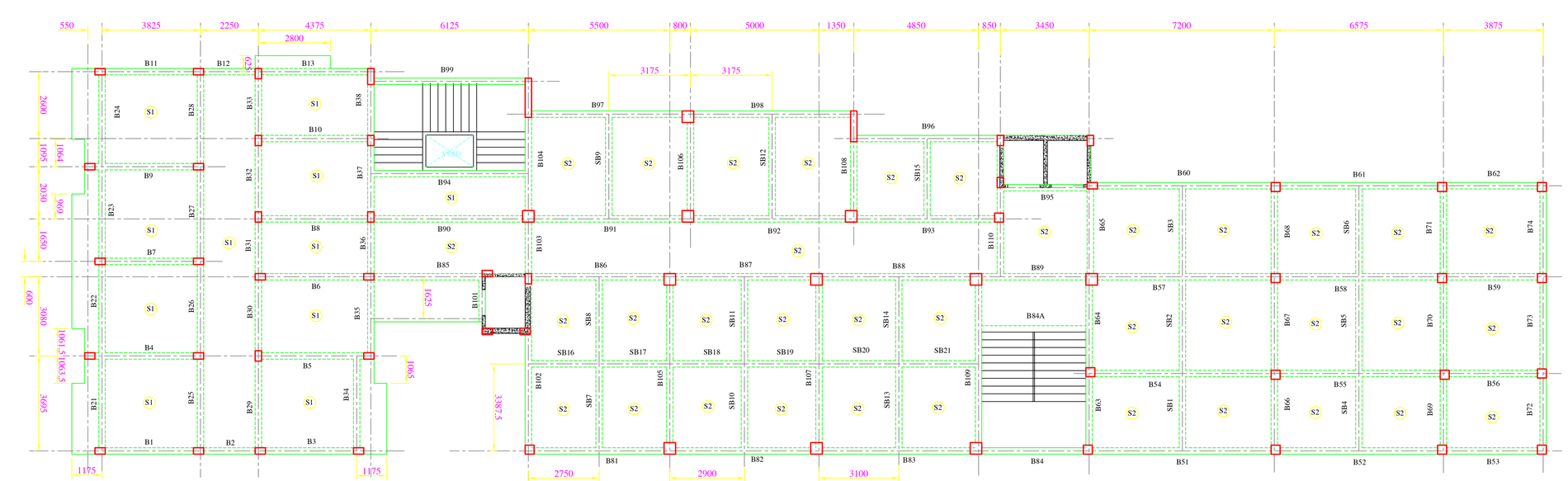
BEAM MKD.	SIZE	REINFORCEMENT				SHEAR REINF.	
		SUPPORT		SPAN			
		TOP	BOTT.	TOP	BOTT.	SUPPORT	SPAN
B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13,	250x400	2-16 Φ (ALTH.)+ 3-12 Φ (EXT.)	2-16 Φ (ALTH.)	2-16 Φ (ALTH.)	2-16 Φ (ALTH.)	2L-8 Φ @ 150 C/C	2L-8 Φ @ 200 C/C
B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B95, B101.	250x400	2-16 Φ (ALTH.)+ 2-12 Φ (EXT.)	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	2-16 Φ (ALTH.)	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	2L-8 Φ @ 150 C/C	2L-8 Φ @ 200 C/C
B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B51A.	250x500	3-20 Φ (ALTH.)+ 3-16 Φ (EXT.)	6-16 Φ (ALTH.)+	3-20 Φ (ALTH.)	6-16 Φ (ALTH.)+	2L-8 Φ @ 100 C/C	2L-8 Φ @ 150 C/C
B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74.	250x500	2-16 Φ (ALTH.)+ 3-12 Φ (EXT.)	3-16 Φ (ALTH.)	2-16 Φ (ALTH.)	3-16 Φ (ALTH.)	2L-8 Φ @ 100 C/C	2L-8 Φ @ 150 C/C
B75, B76.	350x800	4-16 Φ (ALTH.)	5-20 Φ (ALTH.)+ 4-20 Φ (EXT.)	4-16 Φ (ALTH.)	5-20 Φ (ALTH.)+ 4-20 Φ (EXT.)	4L-8 Φ @ 150 C/C	4L-8 Φ @ 175 C/C
B81, B82, B83, B84, B85, B86, B87, B88, B89,B90,B91,B92,B93 B94,B97,B98,B99,B96	250x500	3-16 Φ (ALTH.)+ 3-16 Φ (EXT.)	3-16 Φ (ALTH.)+ 2-16 Φ (EXT.)	3-16 Φ (ALTH.)	3-16 Φ (ALTH.)+ 2-16 Φ (EXT.)	2L-8 Φ @ 125 C/C	2L-8 Φ @ 175 C/C
B84A,B102, B103, B104, B106, B108. B110.	250x500	3-16 Φ (ALTH.)+ 2-16 Φ (EXT.)	2-12 Φ (ALTH.)+ 2-16 Φ (EXT.)	3-16 Φ (ALTH.)	2-12 Φ (ALTH.)+ 2-16 Φ (EXT.)	2L-8 Φ @ 125 C/C	2L-8 Φ @ 175 C/C
B105, B107, B109.	250x500	4-16 Φ (ALTH.)+ 4-16 Φ (EXT.)	8-16 Φ (ALTH.)	4-16 Φ (ALTH.)	8-16 Φ (ALTH.)	4L-8 Φ @ 150 C/C	2L-8 Φ @ 175 C/C
SB1, SB2, SB3, SB4, SB5, SB6.	250x400	3-12 Φ (ALTH.)	3-12 Φ (ALTH.)	3-12 Φ (ALTH.)	3-12 Φ (ALTH.)	2L-8 Φ @ 150 C/C	2L-8 Φ @ 200 C/C
SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15.	250x400	2-12 Φ (ALTH.)	4-16 Φ (ALTH.)	2-12 Φ (ALTH.)	4-16 Φ (ALTH.)	2L-8 Φ @ 150 C/C	2L-8 Φ @ 200 C/C
SB16, SB17, SB18, SB19, SB20, SB21.	250x400	4-12 Φ (ALTH.)+ 4-16 Φ (EXT.)	5-16 Φ (ALTH.)	4-12 Φ (ALTH.)	5-16 Φ (ALTH.)	2L-8 Φ @ 150 C/C	2L-8 Φ @ 200 C/C
SB31, SB32, SB33, SB34, SB35, SB36.	250x400	3-12 Φ (ALTH.)	4-16 Φ (ALTH.)	3-12 Φ (ALTH.)	4-16 Φ (ALTH.)	2L-8 Φ @ 125 C/C	2L-8 Φ @ 175 C/C



4TH FLOOR LEVEL (+ 12450)

SCHEDULE OF TIE BEAM

BEAM MKD.	SIZE	REINFORCEMENT				SHEAR REINF.	
		SUPPORT		SPAN			
		TOP	BOTT.	TOP	BOTT.	SUPPORT	SPAN
TB1, TB2, TB3, TB4, TB5, TB6, TB7, TB8, TB9, TB10, TB11, TB12, TB13.	250x400	2-16 Φ (ALTH.)	2-12 Φ (ALTH.)	2-16 Φ (ALTH.)	2-12 Φ (ALTH.)	2L-8 Φ @175 C/C	2L-8 Φ @ 200 C/C
TB21, TB22, TB23, TB24, TB25, TB26, TB27, TB28, TB29, TB30, TB31, TB32, TB34, TB35, TB36, TB37.	250x400	2-12 Φ (ALTH.)+ 1-12 Φ (EXT.)	2-12 Φ (ALTH.)	2-12 Φ (ALTH.)	2-12 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB33, TB38.	250x400	2-12 Φ (ALTH.)+ 1-12 Φ (EXT.)	3-12 Φ (ALTH.)	2-12 Φ (ALTH.)	3-12 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB52, TB53, TB55, TB56, TB57, TB58, TB59, TB62.	250x500	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	3-12 Φ (ALTH.)	2-16 Φ (ALTH.)	3-12 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB60, TB61.	250x500	2-16 Φ (ALTH.)+ 2-12 Φ (EXT.)	3-12 Φ (ALTH.)	2-16 Φ (ALTH.)	3-12 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB63, TB64, TB65, TB66, TB67, TB68, TB69, TB70, TB71, TB72, TB73, TB74.	350x500	3-12 Φ (ALTH.)	2-12 Φ (ALTH.)	3-12 Φ (ALTH.)	2-12 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB81, TB82, TB83, TB84, TB84A,TB97.	250x500	3-16 Φ (ALTH.)+	2-16 Φ (ALTH.)+	3-16 Φ (ALTH.)	2-16 Φ (ALTH.)+	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB85, TB86, TB87, TB88, TB89, TB90, TB91, TB92, TB93, TB94, TB95, TB96.	250x500	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	3-12 Φ (ALTH.)+	2-16 Φ (ALTH.)	3-12 Φ (ALTH.)+	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB98, TB99.	250x500	2-16 Φ (ALTH.)+ 2-16 Φ (EXT.)	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	2-16 Φ (ALTH.)	2-16 Φ (ALTH.) 1-12 Φ (EXT.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C
TB102,TB103,TB104, TB105,TB106,TB107, TB108, TB109,TB110	250x500	2-16 Φ (ALTH.)+ 1-12 Φ (EXT.)	2-16 Φ (ALTH.)+	2-16 Φ (ALTH.)	2-16 Φ (ALTH.)	2L-8 Φ @ 175 C/C	2L-8 Φ @ 200 C/C



3RD FLOOR LEVEL (+9425)

NOTES :-

1. ALL DIMENSIONS ARE IN MM UNLSS NOTED OTHERWISE.
2. CONCRETE MIX: M25 FOR SUB STRUCTURE M20 FOR SUPER STRUCTURE
3. ALL REINFORCEMENT STEEL SHALL BE TMT BARS CONFORMING TO IS : 1786, GRADE Fe-500.
4. CLEAR COVER WILL BE AS FOLLOWS :-
   FOR COLUMN :- 40 M.M.
   FOR TIE BEAM :- 40 M.M.
   FOR FLOOR/ROOF BEAM :- 30 M.M.
   FOR FLOOR/ROOF SLAB :- 20 M.M.
5. ALL THE REINFORCEMENT BARS SHOULD NOT BE COUNTED BUT TO READ ONLY.
6. LAP & ANCHORAGE LENGTH SHALL BE 50 TIMES OF BAR DIA.
7. NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION.
8. SAFE LOAD CARRYING CAPACITY OF 450 DIA PILE - 39 TON

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA AND BASIS OF SOIL INVESTIGATION REPORT BY G. MITRA & ASSOCIATES CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SIG. OF STRUCTURAL ENGINEER

DEBANJAN GHOSH
E.S.E OF K.M.C.
LICENCE NO-542
CLASS-II

DECLARATION OF L.B.S.

CERTIFIED THAT THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS DRAWN UP AS PER PROVISION OF K.M.C. BUILDING RULES 2009, AS AMENDED FROM TIME TO TIME AND THE SITE CONDITION INCLUDING THE ABUTTING ROAD IS CONFORM WITH THE PLAN. IT IS A BUILDABLE SITE NOT A TANK OR FILLED UP TANK.

SIGNATURE OF L.B.S

DEBANJAN GHOSH
L.B.S OF K.M.C.
LICENCE NO-1549 (CLASS - I)

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

SIG. OF GEO-TECHNICAL ENGINEER

I DO HERE BY DECLARE WITH FULL RESPONSIBILITY THAT, I SHALL ENGAGE L.B.S & ESE DURING CONSTRUCTION. I SHALL FOLLOW THE INSTRUCTION OF L.B.S & E.S.E DURING CONSTRUCTION OF THE BUILDING (AS PER PLAN) K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE BUILDING & ADJOINING STRUCTURE IF ANY SUBMITTED DOCUMENT ARE FAKE. THE K.M.C AUTHORITY WILL REVOKE THE SANCTION PLAN. THE CONSTRUCTION OF S.U.G.W.R & SEPTIC TANK TAKEN UNDER THE GUIDANCE OF LBS/ESE BEFORE STARTING OF BUILDING FOUNDATION.

SIGNATURE OF OWNER(S).

DETAIL OF COLUMN & PILE LAYOUT PLAN & RC DETAIL OF PILE, PILE CAP AND COLUMNS.

PROPOSED G+IV STORIED EDUCATIONAL BUILDING PLAN FOR INDIAN CENTRE FOR SPACE PHYSICS AT PREMISES :-466,BARA KHOLA, KOLKATA,WARD NO -109, BR.- XII, UNDER KMC, SANCTION UNDER BUILDING RULE 2009 & UNDER SECTION -393A OF K.M.C -ACT 1980.

Dinesh Pally, Purbaputiary, Kolkata- 700093
(M): 8584026120

DWG. : S2 OF S2.