

BEAM MKD.	SIZE (mm/mm)	REINF. AT SUPPORT			REINF. AT SPAN			REMARKS
		TOP	BOT.	STRPS	TOP	BOT.	STRP.	
RBX-1, RBX-3, RBX-5, RBX-10, RBX-15A, RBX-25, RBX-26, RBX-27, RBX-41, RBX-3, RBX-5, STRB-1	200X775	2-20.5, 2-16.5, 2-20.5	8.5.2L@110CC	2-20.5, 2-20.5	8.5.2L@175CC	202-12.5, 50N REINF ON EACH VERTICAL SKIN		
RBX-2, RBX-4	200X775	2-20.5, 2-16.5, 2-20.5	8.5.2L@110CC	2-20.5, 2-20.5	8.5.2L@175CC	202-12.5, 50N REINF ON EACH VERTICAL SKIN		
RBX-14, RBX-31, RBX-40, RBX-27, RBX-29	200X450	2-16.5, 3-16.5	8.5.2L@150CC	2-16.5, 3-16.5	8.5.2L@150CC			
RBX-7	200X450	4-16.5	8.5.2L@150CC	2-16.5, 2-20.5	8.5.2L@150CC			
RBX-11, RBX-12, RBX-13, RBX-16, RBX-17, RBX-19, RBX-20, RBX-21, RBX-33, RBX-34, RBX-2, RBX-15, RBX-16, RBX-22, RBX-34	200X450	2-16.5, 1-20.5, 2-20.5	8.5.2L@110CC	2-16.5, 2-20.5, 1-16.5	8.5.2L@150CC			
RBX-37	200X500	2-20.5, 3-20.5	10.5.2L@110CC	2-20.5, 3-20.5, 1-16.5	8.5.2L@110CC			
RBX-37A	200X500	2-16.5, 1-20.5, 2-16.5	8.5.2L@110CC	2-16.5, 2-16.5	8.5.2L@110CC			
RBX-29	200X775	2-25.5, 2-16.5, 2-25.5	10.5.2L@110CC	2-25.5, 2-25.5, 1-20.5	10.5.2L@125CC			

BEAM MKD.	SIZE (mm/mm)	REINF. AT SUPPORT			REINF. AT SPAN			REMARKS
		TOP	BOT.	STRPS	TOP	BOT.	STRP.	
RBX-19, RBX-28	160X460	2-16.5, 2-16.5	8.5.2L@110CC	2-16.5, 2-16.5	8.5.2L@150CC	202-12.5, 50N REINF ON EACH VERTICAL SKIN		
RBX-25	260X460	2-16.5, 2-20.5	8.5.2L@150CC	2-16.5, 2-20.5	8.5.2L@150CC			
RBX-22, RBX-23, RBX-32	250X500	4-25.5, 2-20.5	10.5.2L@110CC	2-25.5, 2-20.5, 1-25.5	8.5.2L@160CC			
RBX-24, RBX-35, RBX-39, RBX-1, RBX-4, RBX-6, RBX-38	200X775	4-25.5, 2-25.5	10.5.2L@110CC	2-25.5, 4-25.5	8.5.2L@110CC	202-12.5, 50N REINF ON EACH VERTICAL SKIN		
RBX-19, RBX-40	200X775	2-25.5, 2-16.5, 2-25.5	8.5.2L@110CC	2-25.5, 2-25.5, 1-16.5	8.5.2L@125CC			
RBX-13, RBX-15, RBX-17, RBX-19, RBX-21, RBX-30, RBX-32	250X500	4-20.5, 2-16.5, 3-20.5	10.5.2L@110CC	2-20.5, 3-20.5, 1-16.5	8.5.2L@110CC			
RBX-2	200X775	4-20.5, 2-20.5	10.5.2L@110CC	2-20.5, 2-20.5, 1-16.5	8.5.2L@110CC			
RBX-35	200X450	3-16.5, 2-20.5, 1-16.5	8.5.2L@110CC	3-16.5, 2-20.5, 1-16.5	8.5.2L@110CC			
RBX-37	200X450	3-16.5, 2-20.5, 1-16.5	8.5.2L@110CC	3-16.5, 2-20.5, 1-16.5	8.5.2L@110CC			
RBX-22, RBX-36, RBX-37	250X450	2-16.5, 1-20.5, 2-20.5	8.5.2L@110CC	2-16.5, 2-20.5	8.5.2L@175CC			
RBX-23, RBX-23A	200X775	4-20.5, 2-20.5	10.5.2L@110CC	2-20.5, 2-20.5	8.5.2L@110CC	202-12.5, 50N REINF ON EACH VERTICAL SKIN		

SLAB MKD.	THK. (mm)	REINF ALONG SHORT SPAN						REINF ALONG LONG SPAN					
		AT SUPPORT			AT SPAN			AT SUPPORT			AT SPAN		
		TOP	BOT.	STRP.	TOP	BOT.	STRP.	TOP	BOT.	STRP.	TOP	BOT.	STRP.
S1, S4	120	10.5. @150cc	8.5. @300cc	---	8.5. @150cc	8.5. @150cc	8.5. @300cc	---	8.5. @175cc	---	---	---	---
S2, S6	120	12.5. @150cc	10.5. @300cc	---	10.5. @150cc	10.5. @125cc	10.5. @300cc	---	10.5. @175cc	---	---	---	---

**PROJECT:**  
 PROPOSED ADDITION OF ONE FLOOR US 394 (OF KMC ACT 1980) COVER AND ABOVE THE SANCTIONED B-4+X-11 STORED RESIDENTIAL BUILDING AT PRE. NO. -233, B. L. SHAH ROAD, KOLKATA - 700053, R.S. PLOT NOS.-647, 632/1101, 633/634/1103, 638, 638/1104, 617, 616, 648 & 616, R.S. KHATIAN NO. -362, 574, 711, 159, 301 & 1112 OF MOUZA-ITALGHATA, J.L.NOS.-10, P.S. BEHALA, WARD NO- 116, BOROUGH NO.- XIII IN MODIFICATION FROM BP NO.: 2017/305/DATED- 07/11/2017

- TITLE:**  
 BEAM SLAB ARRANGEMENT PLAN AT ROOF LEVEL & SCHEDULE.
- NOTES:**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
  - THIS DRG. SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRGS.
  - GRADE OF a) STEEL = Fe-500 U.O.M  
 b) CEMENT = EQUIVALENT TO IS 4310  
 c) CONCRETE = M40
  - CLEAR COVER TO REINFORCEMENT  
 a) BEAM - 25 MM  
 b) SLAB @ TOP & BOTTOM - 20 MM  
 c) STB - 25 MM
  - FOR ANY OTHER GUIDELINE NOT STATED IN THIS DRG. RELEVANT IS CODES ARE TO BE FOLLOWED.
  - STEEL CHAIRS AND SPACER BARS WHERE NECESSARY SHALL BE PROVIDED BETWEEN TWO LAYERS OF REIN.

**DECLARATION OF OWNER**  
 I DO HEREBY DECLARE WITH FULL RESPONSIBILITY THAT I SHALL ENGAGE L.B.A & ESE DURING CONSTRUCTION. I SHALL FOLLOW THE INSTRUCTION OF L.B.A & ESE DURING CONSTRUCTION OF THE BUILDING (AS PER PLAN) & C.A. 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 U/G W/A & SEPTIC TANK TAKEN UNDER THE GUIDANCE OF L.B. & ESE BEFORE STARTING OF BUILDING FOUNDATION.

**SIGNATURE OF OWNER**  
 SAKET MOHTA AS CONSTITUTED ATTORNEY OF SUMITABHA DAS, KRISHNA SAHA CHOWDHURY, MADHUSREE NAG, SHEFALI DAS, AMLANABHA DAS, SIBALATA DAS, SHIRINA SAHA & AS AUTHORIZED SIGNATORY OF METALWOOD INDUSTRIES PVT. LTD.

**DECLARATION OF ARCHITECT**  
 I CERTIFY THAT THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS DRAWN UP AS PER PROVISION OF K.M.C. BUILDING RULES 2006, AS AMENDED FROM TIME TO TIME AND THE SITE CONDITION INCLUDING THE ADJOINING ROAD IS CONFORM WITH THE PLAN. IT IS A BUILDABLE SITE NOT A FANK OR GRADED UP TANK. THERE IS AN EX. STRUC. TO BE DEMOLISHED BEFORE COMMENCEMENT OF WORK IT IS FULLY OCCUPIED BY THE OWNER. THERE IS NO TANK.

**SIGNATURE OF ARCHITECT**  
 DEBATOUSH SAHU  
 Architect & Urban Designer  
 MARCH, FEB., ARCH. REGN. NO. CA/89/1236  
 REG. NO. CA/89/1236  
 35A, Dr. Sarat Banerjee Road, Kolkata-700 029

**DECLARATION OF STRUCTURAL ENGINEER**  
 THIS IS TO CERTIFY THAT THE STRUCTURAL DESIGN AND CONSTRUCTION SO FAR COMPLETED FOR THE RCC FRAMED RESIDENTIAL BUILDING WAS MADE CONSIDERING (B+4+X) STORED, THROUGH IT WAS PREVIOUSLY APPROVED AS (B+4+X) STORED RESIDENTIAL BUILDING. THE ENTIRE BUILDING HAS BEEN DESIGNED CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC AND WIND LOAD AS PER NBC OF INDIA AND CERTIFY THAT THE EXISTING BUILDING FOUNDATION AND SUPERSTRUCTURE IS ALSO SAFE AND STABLE IN ALL RESPECTS. CONSIDERING THE ADDITIONAL LOADS OUT OF THE PRESENT PROPOSAL OF (B+4+X) STORED RESIDENTIAL BUILDING.

**SIGNATURE OF STRUCTURAL ENGINEER**  
 SNEHASHIS SINHA  
 E.S.E. - 1177  
 Int. PE No.: IP800071-2  
 157, Bhinobha Bhavne Road, Kolkata-700 038

**GEO-TECHNICAL ENGINEER:**  
 I HEREBY CERTIFY THAT THE APPROVED OUT S.O.C. REPORT HAS BEEN OBTAINED FROM THE AUTHORITY CONCERNED AND THE FOUNDATION DESIGN IS SAFE AND STABLE IN ALL RESPECTS. CONSIDERING THE ADDITIONAL LOADS OUT OF THE PRESENT PROPOSAL OF (B+4+X) STORED RESIDENTIAL BUILDING.

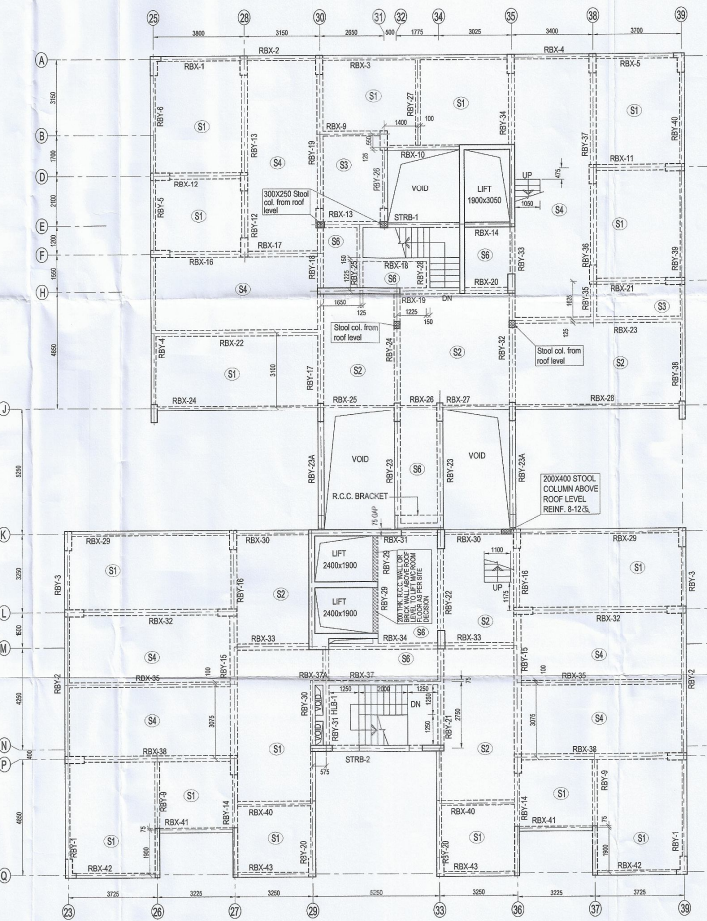
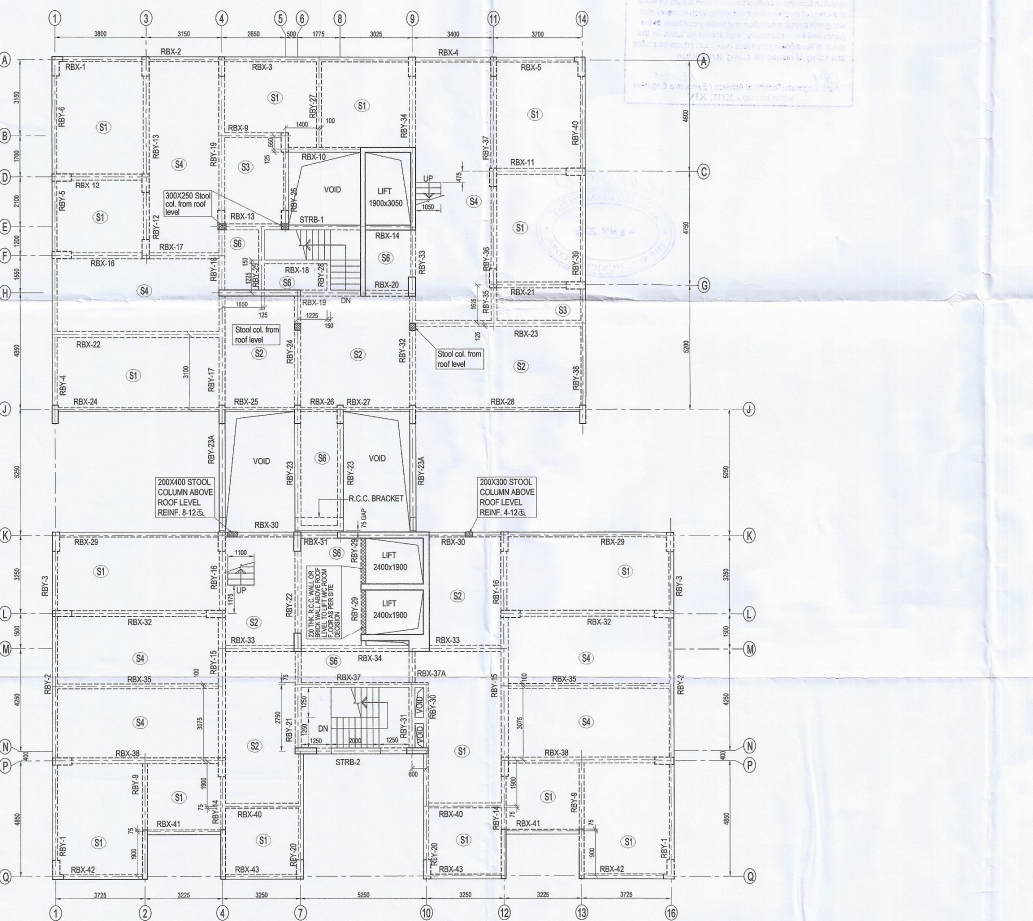
**SIGNATURE OF GEO-TECHNICAL ENGINEER**  
 SNEHASHIS SINHA  
 E.S.E. - 1177  
 157, Bhinobha Bhavne Road, Kolkata-700 038

**ESPACE**  
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 WEBSITE: www.espaceindia.com

**STRUCTURAL CONSULTANT:**  
**SINHA & ASSOCIATES**  
 ENGINEERS & DESIGN CONSULTANTS  
 35, BHINOBHA BHAVNE ROAD, K.A. - 700038  
 PH. NO. 91-33-2465-4130  
 E-MAIL: sinha@saiindia.com

**DATE:** 16.02.2019 **CHKD. BY:** S. SINHA  
**SCALE:** 1:100, 2/5 **DRWN. BY:** MOUMITA

**DRG. NO.:** 233, B.L. SHAH ROAD/S.A/MC/ST-42  
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BEAM SLAB ARRANGEMENT PLAN AT ROOF LEVEL  
 SCALE 1:100