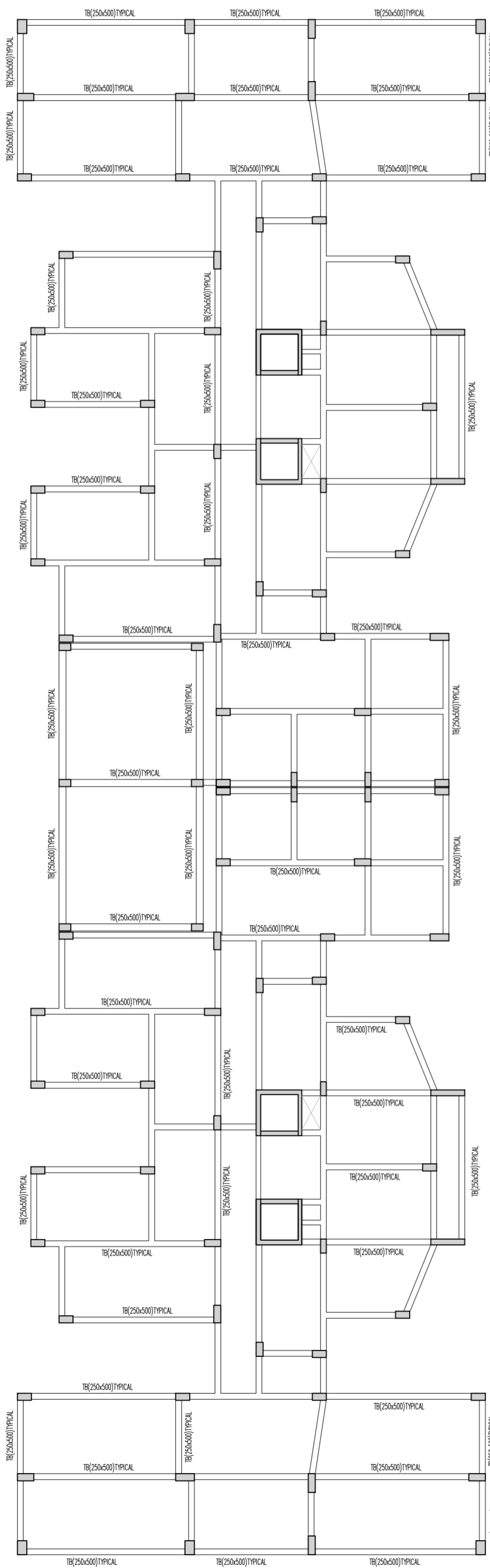
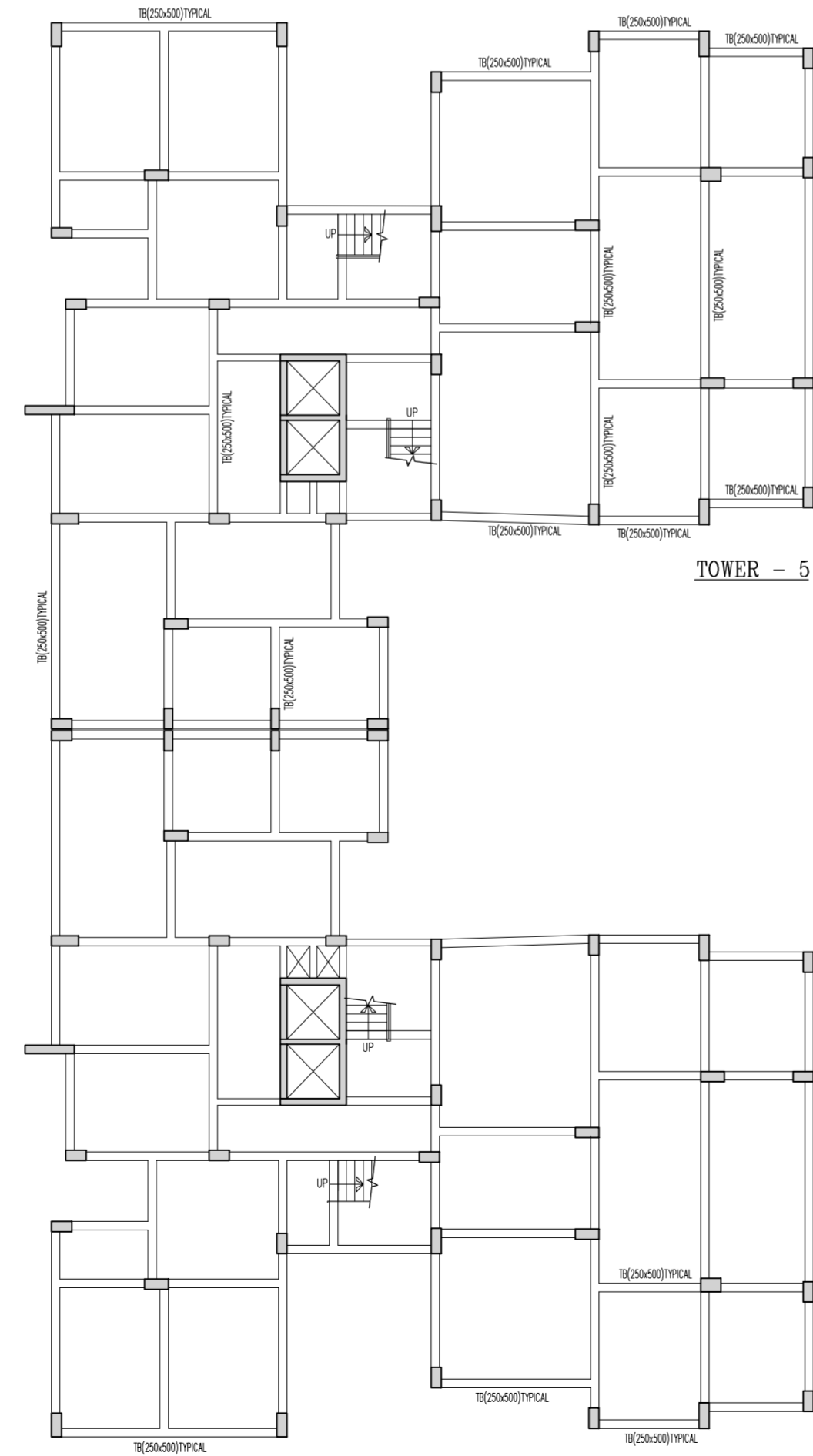


TOWER - 3

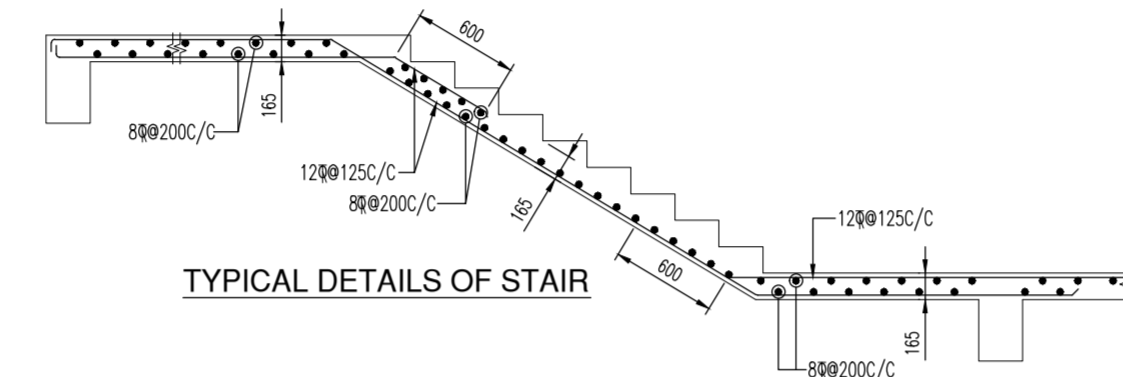


TOWER - 2

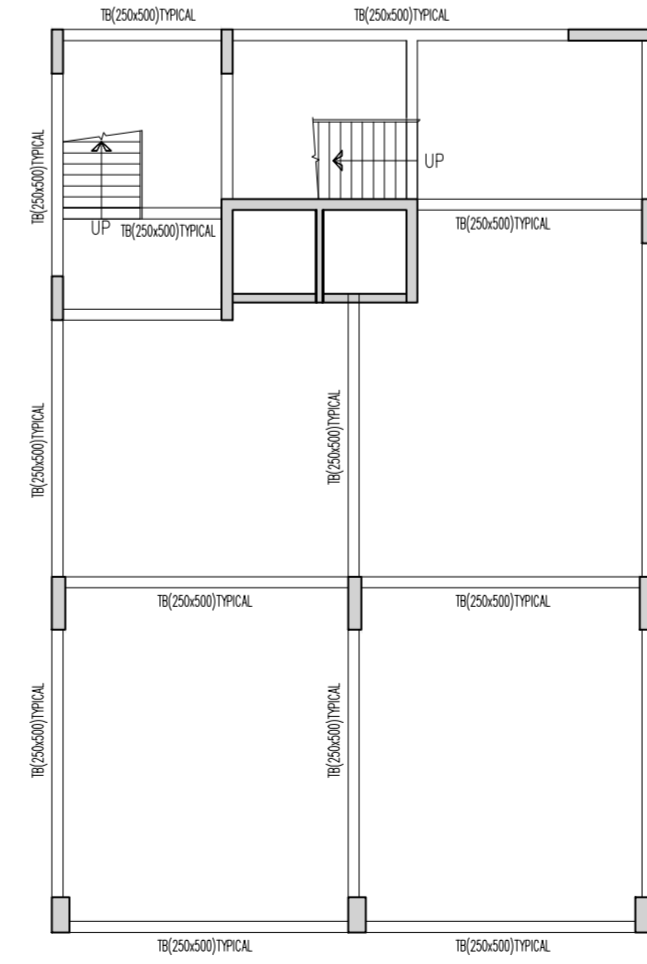
BLOCK - 2 TIE BEAM LAYOUT



BLOCK - 3 TIE BEAM LAYOUT

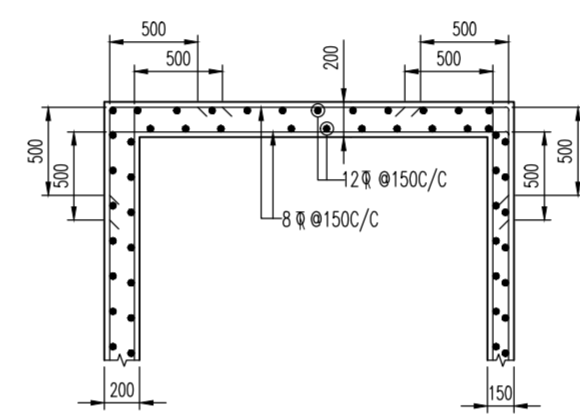


TYPICAL DETAILS OF STAIR

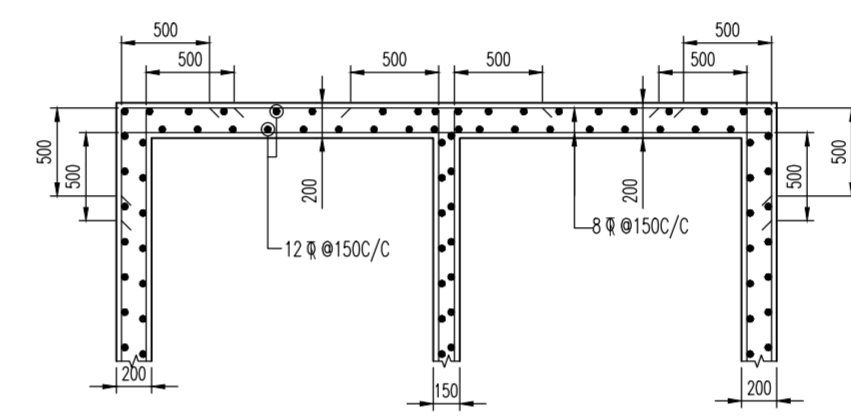


TYPICAL DETAILS OF TIE BEAM(250x500)

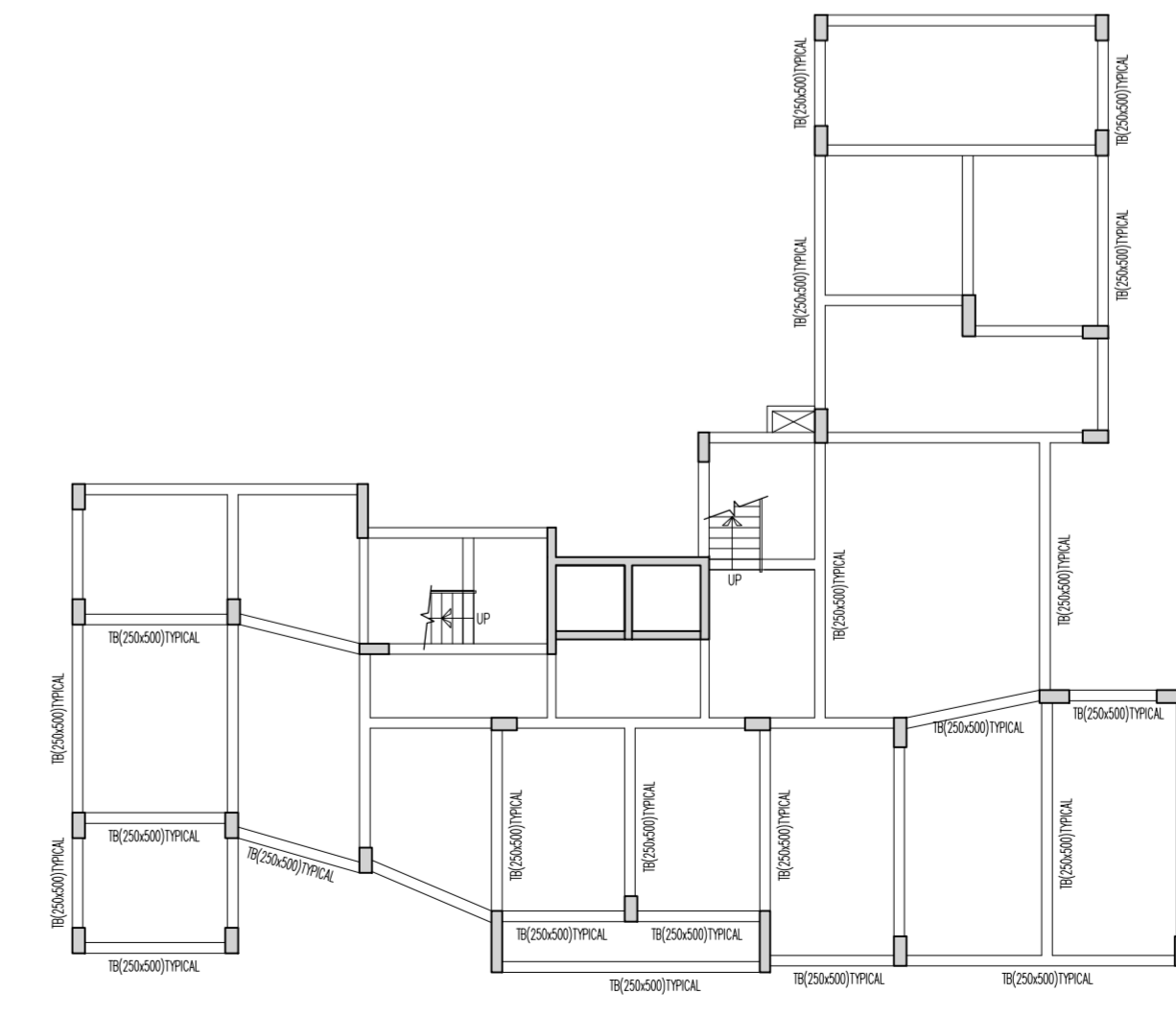
BLOCK-1 TOWER - 1 TIE BEAM LAYOUT



TYPICAL DETAILS OF LIFT WALL TYPE - 1



TYPICAL DETAILS OF LIFT WALL TYPE - 2



BLOCK - 4 TOWER - 6 TIE BEAM LAYOUT

- NOTES :-**
1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
 2. SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
 3. ALL GRADE OF CONCRETE AS/SCHEDULE.
 4. ALL MATERIALS SHALL CONFORM TO RELEVANT I.S. CODES.
 5. FOR STEEL GRADE Fe 500 AS PER I.S 1786-2008
 6. LAPS, SPICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
 7. FOUNDATION & PLINTH : BRICKWORK IN FOUNDATION & PLINTH SHALL BE OF 1ST CLASS BRICK IN 1:6 CEMENT MORTAR.
 8. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:
- | MEMBER | TOP | BOTTOM | SIDE |
|---------------------------|-----|--------|------|
| a. FOUNDATION BEAM & SLAB | 50 | 50 | 50 |
| b. COLUMN | - | - | 40 |
| c. TIE BEAM | 30 | 30 | 30 |
| d. FLOOR BEAM | 30 | 30 | 30 |
| e. FLOOR SLAB | 20 | 20 | 20 |
| f. PILE | - | - | 50 |
| g. PILECAP | 50 | 50 | 50 |
9. THIS DRAWING IS THE PROPERTY OF M/S S.P.A CONSULTANT AND CANNOT BE COPIED OR USED WITHOUT THEIR WRITTEN PERMISSION.

CERTIFICATE OF OWNER

1. I SHALL ENGAGE ARCHITECT AND E.S.E DURING CONSTRUCTION
2. I SHALL FOLLOW THE INSTRUCTIONS OF ARCHITECT AND E.S.E DURING CONSTRUCTION OF THE BUILDING.
3. I/AS AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURE STABILITY OF BUILDING AND ADJOINING STRUCTURE.
4. IF ANY SUBMITTED DOCUMENT IS FOUND TO BE FALSE THE M.M.C AUTHORITY MAY REVOKE THE SANCTION PLAN.
5. THE CONSTRUCTION OF WATER RESERVOIR AND SEPTIC TANK EXECUTED UNDER THE GUIDANCE OF ARCHITECT & E.S.E

SIGNATURE OF OWNER
SANJAY AGARWAL
 DESIGNATION DIRECTOR
 ADDRESS:
 SWAPNA MAHAL HOUSING PVT. LTD.
 12, HOBBY LAL BURMAN ROAD,
 SALT LAKE, HOBBYRAH - 711106.

CERTIFICATE OF GEO-TECHNICAL ENGINEER

IT IS CERTIFIED THAT THE COMPREHENSIVE GEO-TECHNICAL REPORT ON SOIL INVESTIGATION HAS BEEN PREPARED BY ME FOR DESIGN AND CALCULATION OF THE FOUNDATION BY ANALYZING THE SOIL SAMPLE FOR ESTIMATING THE BEARING CAPACITY OF THE SOIL ON WHICH FOUNDATION OF THE STRUCTURE WILL BE CONSTRUCTED.

I SHALL ALSO CHECK THE NATURE OF THE SOIL AFTER EXCAVATION AT SITE SO THAT FOUNDATION IS EXTENDED UP TO APPROPRIATE DEPTH THAT HAS BEEN PROPOSED IN THE GEO-TECHNICAL REPORT.

SIGNATURE OF GEO-TECHNICAL ENGINEER
ALOK ROY
 EMPLOYER'S NO-11/1
 ADDRESS:
 6A, MILAN PARK
 P.O.-GARDIA,
 KOLKATA - 700084.

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT THE STRUCTURAL DESIGN & DRAWINGS OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECTS.

THE REPORT OF SOIL TEST DONE BY ALOK ROY HAS BEEN CONSIDERED DURING STRUCTURAL DESIGN & CALCULATION.

SIGN. OF STRUCTURAL ENGINEER
SANJIV J. PAREKH
 E.S.E. 1 (104)
 ADDRESS:
 34 BRAHMOHINI DUTTA ROAD,
 KOLKATA - 700020.

CERTIFICATE OF STRUCTURAL REVIEWER

I HAVE REVIEWED THE STRUCTURAL DESIGN AND CALCULATION MADE BY STRUCTURAL ENGINEER THIS IS CERTIFIED THAT THE STRUCTURAL DESIGN AND CALCULATION HAVE BEEN MADE AS PER NORMS AND STRUCTURE IS SAFE AND STABLE IN ALL RESPECT.

SANJIV GUHA,
 E.S.R. 1 (88),
 ADDRESS:
 34 BRAHMOHINI DUTTA ROAD,
 KOLKATA-20.

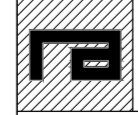
CERTIFICATE OF ARCHITECT

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT AT MOUZA-SONAMUKHI, MODIFIED KHATAJ NO- 443 & 444, R.S. KHATAJ NO- 477 & 478 R.S. PLOT NO-7,8,10,12 & TALJULI MOUZA, L.R. DAG NO-5,5,1/116,1/117, HAVE BEEN PREPARED BY ME & CERTIFY THAT THE PLANS AND DRAWINGS COMPLYING WITH ALL THE PROVISIONS REGARDING THE FIRE PROTECTION AS PER THE WEST BENGAL MUNICIPALITY BUILDING RULES 2007 & AMENDMENT 2016. I SHALL BE HELD RESPONSIBLE IF ANY INCORRECT INFORMATION IS FURNISHED BY ME OR ANY VIOLATION OF PROVISIONS OF THESE RULES OR THE PREVALENT NATIONAL BUILDING CODE IS FOUND IN ANY OF THE DRAWINGS AND DOCUMENTS, SIGNED BY ME AND SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

SIGNATURE OF ARCHITECT
RAJ KUMAR AGARWAL
 COUNCIL REGISTRATION NO. CA/94/17940
 ADDRESS:
 RAJ AGARWAL & ASSOCIATES
 88, ROYD STREET (2ND FLOOR), KOLKATA-16.

PROJECT
 PROPOSED LOWER GR.-UPPER GR.-VII STORED (24.4 M.) NOS. BLOCK-2,3,4 & LOWER GR.-UPPER GR.-IV STORED (19.90 M.) (ONE BLOCK-1) RESIDENTIAL BUILDING AT MOUZA- SONAMUKHI MODIFIED KHATAJ NO.-443 & 444,R.S. KHATAJ NO.- 477 & 478 R.S. PLOT NO.-7,8,10,12 & TALJULI MOUZA, L.R. DAG NO.- 5,5, 1/116, 1/117.

TITLE
 STRUCTURAL CORPORATION DRAWING
 TIE BEAM LAYOUT & REINFORCEMENT DETAILS

ARCHITECTS
 **RAJ AGARWAL & ASSOCIATES**
 88, ROYD STREET, KOLKATA-16.

STRUCTURAL ENGINEERS
S.P.A. CONSULTANTS
 34, RAM MOHAN DUTTA ROAD
 KOLKATA - 700020, PH. NO. 2485-5448, 2485-5449
 E-MAIL: spa_consultants@yahoo.co.in

DRAWN BY - <i>Siddha</i>	CHECKED BY - Ninaba	DATE - 14.03.2022	SCALE - 1:100, 1:25
JOB NO. - 2022	47	RAJ.AG.	S.P.A. RAJAGPUR
DRG. NO. - 2022/47/RAJ.AG/S.P.A/HARAGPUR/CS-02			