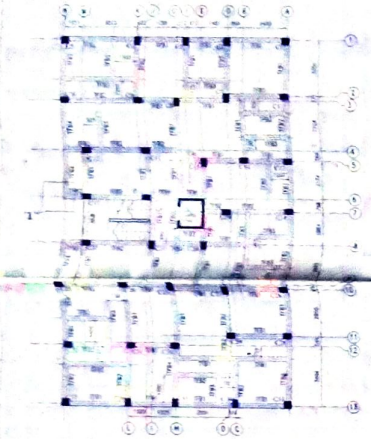
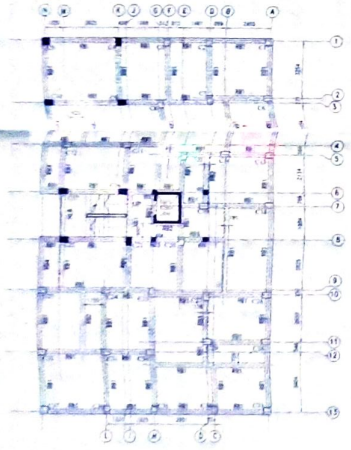
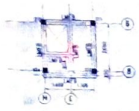


BLOCK-B
TYPICAL FLOOR (1st to 4th) BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)2.95m. , (+)5.95m. , (+)8.95m. , (+)11.95m.
ALL SLAB 110 mm THICK.
SCALE:- 1:100
ALL REFERS TO WALL CARRING BEAM

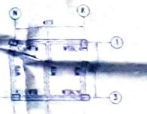


BLOCK-B
ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)14.95m.
ALL SLAB 110 mm THICK.

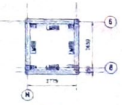
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM



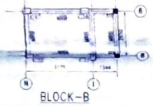
BLOCK-B
L.M.R FLOOR BEAM & SLAB LAYOUT PLAN AT LEVEL (+)16.45 m.
(ALL SLAB 150 mm. THK.)
SCALE:- 1:100



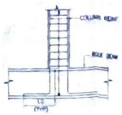
BLOCK-B
WATER TANK FLOOR BEAM & SLAB LAYOUT PLAN AT LEVEL (+) 15.55 m.
ALL SLAB 200 mm THICK
SCALE:- 1:100



BLOCK-B
L.M.R ROOF BEAM & SLAB LAYOUT PLAN AT LEVEL (+)18.85 m.
(ALL SLAB 110 mm. THK.)
SCALE:- 1:100



BLOCK-B
MUMTY ROOF BEAM & SLAB LAYOUT PLAN AT LVL. (+)17.35 m.
(ALL SLAB 110 mm. THK.)
SCALE:- 1:100



TYPICAL DETAILS OF STOOL COLUMN-BEAM JUNCTION

SCHEDULE OF TYPICAL FLOOR BEAMS

BEAM MARKS	BEAM SIZE WIDTH (B)	BEAM SIZE DEPTH (D)	TOP REINFORCEMENT ①	TOP REINFORCEMENT ②	TOP REINFORCEMENT ③	BOTTOM REINFORCEMENT ④	BOTTOM REINFORCEMENT ⑤	STIRRUPS (AT SUPPORT) ⑥	STIRRUPS (AT SPAN) ⑦
TB1	230	450	3-16 ϕ			3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
TB2	230	450	3-16 ϕ	2-12 ϕ		3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
TB3	230	450	2-16 ϕ +1-12 ϕ			2-16 ϕ +1-12 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
WTB1	230	450	3-16 ϕ			3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
TB4	230	450	3-16 ϕ	2-12 ϕ		3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C

SCHEDULE OF SLAB AND ABOVE ROOF BEAMS

BEAM MARKS	BEAM SIZE WIDTH (B)	BEAM SIZE DEPTH (D)	TOP REINFORCEMENT ①	TOP REINFORCEMENT ②	TOP REINFORCEMENT ③	BOTTOM REINFORCEMENT ④	BOTTOM REINFORCEMENT ⑤	STIRRUPS (AT SUPPORT) ⑥	STIRRUPS (AT SPAN) ⑦
MTB1	230	450	2-16 ϕ +1-12 ϕ			2-16 ϕ +1-12 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
MTB2	230	450	2-16 ϕ +1-12 ϕ			2-16 ϕ +1-12 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
MTB3	230	450	3-16 ϕ	2-12 ϕ		3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
LMB1	230	450	2-16 ϕ +1-12 ϕ			2-16 ϕ +1-12 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
WTB1	230	450	3-16 ϕ			3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C
WTB2	230	450	3-16 ϕ	2-12 ϕ		3-16 ϕ		2-L ϕ@100 C/C	2-L ϕ@150 C/C

SCHEDULE OF TYPICAL FLOOR SLAB , ROOF SLAB, MUMTY ROOM ROOF SLAB AND LMR ROOF SLAB (110 mm. THICK)

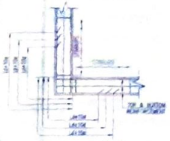
BAR MKD.	REINFORCEMENT	POSITION
A	8# @ 150 mm C/C (ALL THROUGH)	BOT.
B	8# @ 150 mm C/C (ALL THROUGH)	BOT.
X	8# @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8# @ 150 mm C/C (ALL THROUGH)	BOT.
		TOP
EXTENDER	8# @ 150 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF LMR FLOOR SLAB (150 mm. THICK)

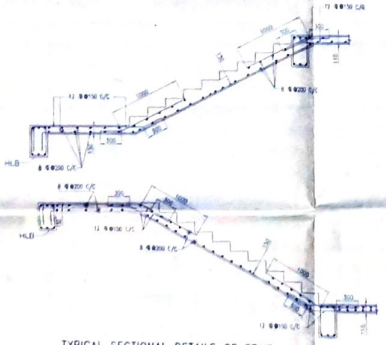
BAR MKD.	REINFORCEMENT	POSITION
E	10# @ 150 mm C/C (ALL THROUGH)	BOT.
F	10# @ 150 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF WATER TANK FLOOR SLAB (200 mm. THICK)

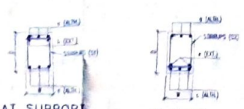
BAR MKD.	REINFORCEMENT	POSITION
E	10# @ 150 mm C/C (ALL THROUGH)	BOT.
F	10# @ 150 mm C/C (ALL THROUGH)	TOP



DETAIL-"1"
DETAIL OF BOW GIRDER CANTILEVER PORTION



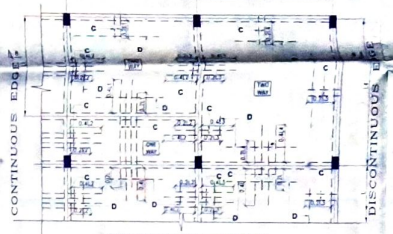
TYPICAL SECTIONAL DETAILS OF STAIR
(WAIST SLAB 150 mm THK)
SCALE 1:25



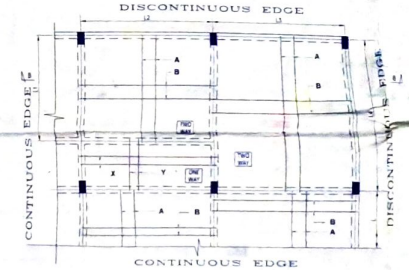
AT SUPPORT
AT SPAN
TYPICAL CROSS SECTION OF BEAM

BENT UP HANGER TYPE BARS AT MAIN BEAM & SECONDARY BEAM JUNCTIONS
SCALE - N.T.S.

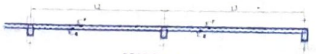
SECTION-B-B



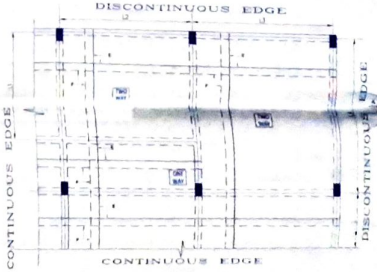
DISCONTINUOUS EDGE
CONTINUOUS EDGE
CONTINUOUS EDGE
DISCONTINUOUS EDGE
CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(110mm THK. SLAB)
(SCALE-N.T.S)



DISCONTINUOUS EDGE
CONTINUOUS EDGE
DISCONTINUOUS EDGE
CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(110mm THK. SLAB)
(SCALE-N.T.S)



SECTION-A-A
(SCALE-N.T.S)



DISCONTINUOUS EDGE
CONTINUOUS EDGE
CONTINUOUS EDGE
DISCONTINUOUS EDGE
CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT
(TOP & BOTTOM)
(150 mm ,200 mm THK. SLAB)
(SCALE-N.T.S)

NOTES:-

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT INDIAN STANDARD CODES OF PRACTICE.
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER, EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS, AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE THAT MADE OF IS/ASTM/BS STANDARD CONFORMING TO IS:1786-2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH + 10 DIAM DIA.
6. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   i) SLAB - 20 mm
   ii) TYPICAL FLOOR BEAMS,ROOF & ABOVE ROOF BEAMS - 25 mm.
   iii) STAIR WAIST SLAB -25 mm.
7. GRADE OF CONCRETE SHALL BE AS FOLLOWS:
   FOUNDATION AND SUPER STRUCTURE - M25
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. DEVELOPMENT LENGTH SHALL BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN IS:456-2000.
10. WHERE BEAM SUPPORTED ARE NOT TERMINATED AT A SUPPORTING ARRANGEMENT THAT PROVIDES FULL ANCHORAGE, THE BARS SHALL BE BENT, HOOKED OR OTHERWISE CONTINUED AS SPECIFIED IN THE DRAWINGS.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ACROSS THE SAME LINE, THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT THE BOTTOM SIDE.

TITLE

PROPOSED STRUCTURAL DRAWING G+4 STORIED RESIDENTIAL BUILDING PLAN AT MOUZA - JATRAGACHI, R.S. & L.R DAG No.- 822,L.R. KHATIAN NO.:-1365,TOUZI NO.:- 174&179,R.S. NO.:- ,J.L.No. - 24 ,DIST.-24 PGS.(N.) UNDER JYANGRA HATIARA-2 GRAM PANCHAYET

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.

Dipanjan Mani 05/9/18
DIPANJAN MANI
CIVIL ENGINEER (B. TECH)
WBA/A/17 (SECURITY)

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

CERTIFICATE OF ARCHITECT

SIGNATURE OF ARCHITECT

NAME OF THE OWNERS

M/S MUSKAN RESIDENCY PVT. LTD

SIGNATURE OF OWNERS

DRAWING TITLE

FLOOR BEAM, ROOF & ABOVE ROOF BEAM,SLAB LAYOUT PLAN AND REINFORCEMENT SCHEDULE, TYPICAL STAIR SECTIONS WITH REINFORCEMENT DETAILS (BLOCK-B).

SCALE: 1:100 OR AS SHOWN
DATE: 01.09.2018
SHEET NO.: 5 OF 5