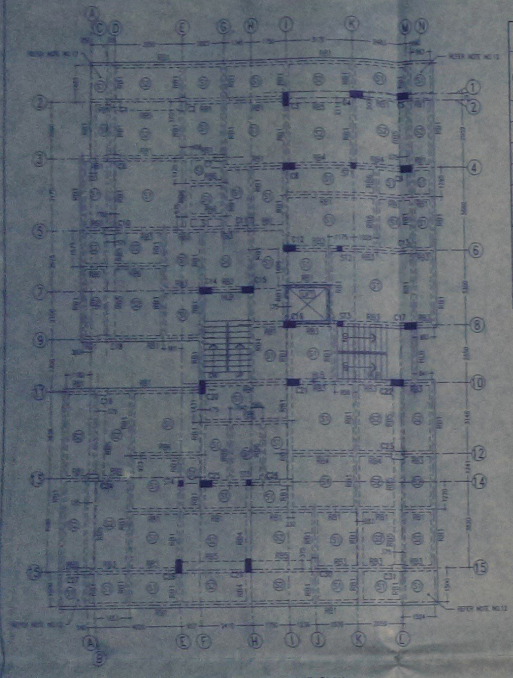
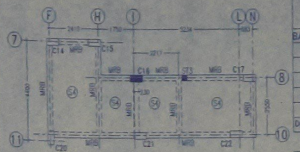
SCHEDULE OF ROOF & ABOVE ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (B) mm	BEAM SIZE DEPTH (D) mm	TOP REINFORCEMENT ACTUAL(OR) EXTRA AT SUPPORT ①	TOP REINFORCEMENT EXTRA AT SUPPORT ②	BOTTOM REINFORCEMENT ACTUAL(OR) EXTRA AT SPAN ③	BOTTOM REINFORCEMENT EXTRA AT SPAN ④	STIRRUPS (AT SUPPORT) ⑤	STIRRUPS (AT SPAN) ⑥
RB1	250	450	3-16 ⌀	-	3-16 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
RB2	250	450	3-20 ⌀ 4-12 ⌀	-	3-20 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
RB3	250	450	3-20 ⌀	-	3-20 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
RB4	250	450	3-20 ⌀	3-16 ⌀	3-20 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
RB5	300	250	3-20 ⌀	-	3-20 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
RB6	230	400	3-16 ⌀	-	3-16 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
WTB	250	450	3-16 ⌀	3-16 ⌀	3-16 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
LMRB	250	450	3-12 ⌀	-	3-12 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
LMRB	250	450	3-16 ⌀	-	3-16 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C
LMRB	250	450	3-12 ⌀	-	3-12 ⌀	-	2L-8 ⌀@100 C/C	2L-8 ⌀@200 C/C



ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)20.2m.
S1 MARKED SLABS ARE 110 mm THICK & S2 MARKED SLABS ARE 150 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE- 1:100



MUMTY ROOF BEAM & SLAB LAYOUT PLAN
AT LVL. (+)22.6 m.
(S4 MARKED SLABS ARE 110 mm. THK.)
SCALE- 1:100

SCHEDULE OF S1 & S2 MARKED SLABS (TYP. FLOORS AND ROOF SLABS, THICKNESS- 110 & 150 mm.)

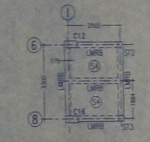
BAR MKD.	REINFORCEMENT	POSITION
A	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
B	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
X	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8ø @ 150 mm C/C (ALL THROUGH)	BOT.
C	8ø @ 150mm C/C (CURTAILMENT)	TOP
D(BINDER)	8ø @ 200 mm C/C (UNDERSIDE REQUIRED)	TOP

SCHEDULE OF S3 MARKED SLABS (L.M.R FLOOR & WATER TANK FLOOR SLABS, THICKNESS- 200mm.)

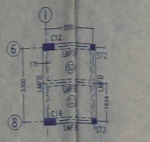
BAR MKD.	REINFORCEMENT	POSITION
E	10T @ 150 mm C/C (ALL THROUGH)	BOT.
F	10T @ 150 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF S4 MARKED SLABS (L.M.R ROOF & MUMTY SLABS, THICKNESS- 110mm.)

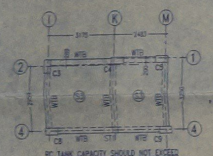
BAR MKD.	REINFORCEMENT	POSITION
E	8T @ 150 mm C/C (ALL THROUGH)	BOT.
F	8T @ 150 mm C/C (ALL THROUGH)	TOP



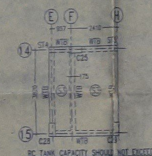
LIFT MACHINE ROOM ROOF BEAM & SLAB LAYOUT PLAN
AT LVL. (+)24.1 m.
(S4 MARKED SLABS ARE 110 mm. THK.)
SCALE- 1:100



LIFT MACHINE ROOM FLOOR BEAM & SLAB LAYOUT PLAN
AT LVL. (+)21.4 m.
(S3 MARKED SLABS ARE 200 mm THICK)
SCALE- 1:100

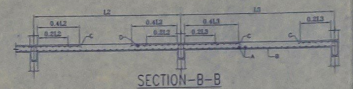


RC TANK CAPACITY SHOULD NOT EXCEED 23500 LITRES

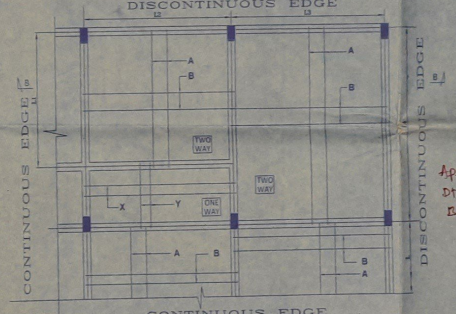


RC TANK CAPACITY SHOULD NOT EXCEED 17500 LITRES

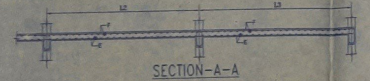
WATER TANK ROOF BEAM & SLAB LAYOUT PLAN
AT LVL. (+)21.2 m.
(S3 MARKED SLABS ARE 200 mm. THK.)
SCALE- 1:100



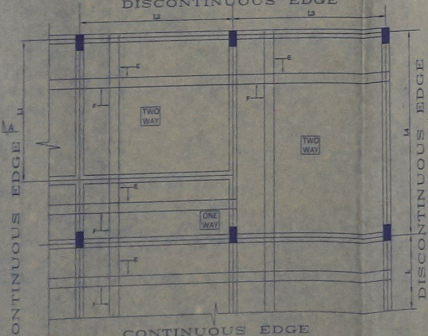
SECTION-B-B
(SCALE- N.T.S)



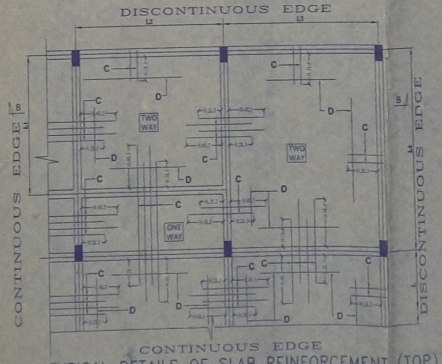
DISCONTINUOUS EDGE
CONTINUOUS EDGE
TWO WAY
ONE WAY
CONTINUOUS EDGE
DISCONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(SLAB MARKED S1 AND S2)
(SCALE - N.T.S.)



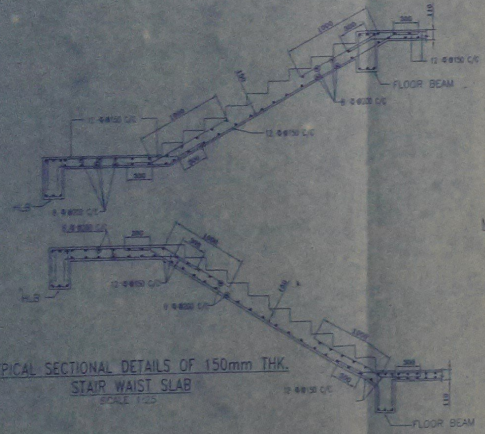
SECTION-A-A
(SCALE-N.T.S)



DISCONTINUOUS EDGE
CONTINUOUS EDGE
TWO WAY
ONE WAY
CONTINUOUS EDGE
DISCONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)
(SLAB MARKED S3 AND S4)
(SCALE-N.T.S)



DISCONTINUOUS EDGE
CONTINUOUS EDGE
TWO WAY
ONE WAY
CONTINUOUS EDGE
DISCONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(SLAB MARKED S1 AND S2)
(SCALE-N.T.S)



FLOOR BEAM
FLOOR BEAM
TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB
SCALE 1:25

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).
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 TWT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH + 50DIAM DIA.
6. CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
   i) COLUMNS : 40 mm
   ii) BEAMS : 30 mm
   iii) SLABS : 20 mm
   iv) WAIST SLAB : 20 mm
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE & SUBSTRUCTURE WILL BE M25 AS PER IS-456:2000.
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987.
10. WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 60D IN THE SUPPORTING MEMBER.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
12. IN ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

SPECIAL NOTES:
THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 250 mm THICK AAC BLOCKS IN EXTERNAL WALLS &125 mm THICK AAC BLOCKS IN INTERNAL WALLS

TITLE

STRUCTURAL DRAWINGS OF PROPOSED SEVEN (G+6) STORIED RESIDENTIAL APARTMENT OF SUBHO LAXMI REAL ESTATE, PLOT DETAILS /ADDRESS -R.S. PLOT NO.-1596(PART),L.R.PLOT NO.-1970,1971, KHATIAN NO.-4778,4779,4780,4781,4839 ,J.L. NO.-91, MOUZA-ARRAH,P.S.-KANKSA,DIST.- PASCHIM BURDWAN.

CERTIFICATE OF ARCHITECT/ENGINEER

ANIMESH BHATTACHARYYA
B.ARCH.
(A/2014/62790)

SIGNATURE OF GEOTECHNICAL ENGINEER

Approved vide memo NO - DE/PSB/ZP/121
Dt- 20/01/2021 by District Engineer of Paschim Bardhaman zilla parishad.

APPROVED
Prodhan
Malandighi Gram Panchayat

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

SOUMYADIP DUTTA
B.TECH (WBUT)
CIVIL ENGINEER, INDIA
LICENCE NO.-CIVIL/A/01/170997

13/3/2020

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED BY
DR. DIPANKAR CHATTERJEE
M.E. (CIVIL) (GOLD MEDALIST)
Ph.D. (ENGG.)
F.I.E., C.Eng., F.I.Struct.E., F.I.V.
CHARTERED ENGINEER
STRUCTURAL CONSULTANT
EMAIL : dipankarchatterjee@gmail.com

CERTIFICATE OF OWNER

SUBHO LAXMI REAL ESTATE
Partner

DRAWING TITLE

TYP. ROOF FLOOR BEAM AND SLAB LAYOUT PLAN & REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN
DATE- 04.03.2020
SHEET NO. - 3 OF 3